Search history

Search 1: FT=(cutting* and tool* and ceramic* and lever* and support*) (Results 3642)

Search 2: 1. holders* (Results 555)

Search 3: (1) AND IPC=(B25 OR B26) (Results 334)

1) Family number: 9598006 (EP0592345A2)

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Title: MACHINE FOR CUTTING/SEPARATING FLAT PIECES OF CERAMIC AND THE LIKE.

Abstract: It comprises a sliding support (1) bearing a tool (2) for marking the flat ceramic piece (3) with a groove (25), and a mechanism (4) for separating said piece (3) into two parts, said mechanism forming an integral part of the sliding support (1) and being actuated by the same lever (6) which is used to actuate said tool. The cutting tool (2) is mounted on a shaft (30) comprising a projection (31) on the sliding support (1) and a recess (32) in said shaft (30), said projection (31) and said recess (32) being mutually coupled to position the shaft (30) relative to the sliding support (1). It also comprises a fixed stop rule (108), an element (109) which can be moved linearly along a guide, a rotating element (110) connected to said element (109), and a fixed sector (111), graduated in angles, relative to which moves the rotating element (110), said element (110) comprising the guide (112) along which moves the element (109), the latter being graduated along its length. The cutting and separating of the piece is made easier, the correct positioning of the cutting tool is ensured, and it is possible to make repeated, accurate cuts at any angle.

Classifications:
International (IPC 8-9): B26D1/04 B26D3/08 B26D7/01 B28D1/22 (Advanced/Invention);
B26D1/01 B26D3/08 B26D7/01 B28D1/22 (Core/Invention)
International (IPC 1-7): A61M21/02 B26D1/04 B26D3/08 B26D7/01 B28D1/22 B60M1/20
CPC: B28D1/225
European: B28D1/22D

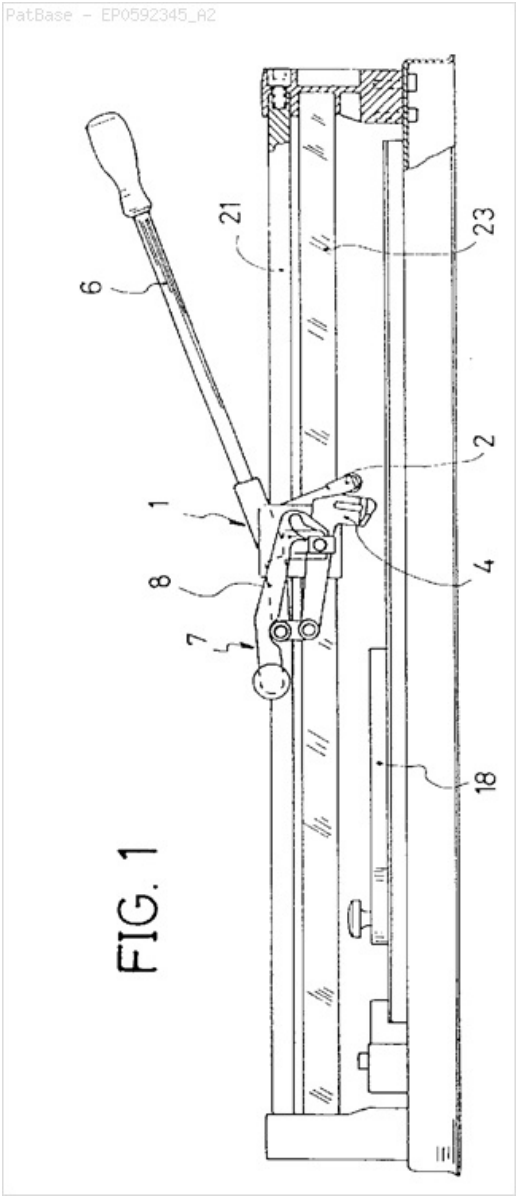


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AT173971 E	19981215	AT19930500119T	19930804
DE69322359 D1	19990114	DE19936022359	19930804
DE69322359 T2	19990602	DE19936022359T	19930804
DK0592345 T3	19990816	DK19930500119T	19930804
EP0592345 A2	19940413	EP19930500119	19930804
EP0592345 A3	19940817	EP19930500119	19930804
EP0592345 B1	19981202	EP19930500119	19930804
ES2064248 AB	19950116	ES19920002535	19921215
ES2064248 AC	19970501	ES19920002535	19921215
ES2064248 BA	19980101	ES19920002535	19921215
ES2101611 AA	19970701	ES19920001661	19920807
ES2101611 BA	19980316	ES19920001661	19920807
ES2101612 AA	19970701	ES19920002547	19921217
ES2101612 BA	19980316	ES19920002547	19921217
GR3029368 T3	19990528	GR19990400455T	19990210

Priority:

ES19920001661 19920807 ES19920002535 19921215 ES19920002547 19921217

Probable Assignee: BOADA GERMANS SA

Assignee(s): (std): BOADA GERMANS SA ; COMPANIA AUXILIAR DE LA DISTRI

Assignee(s): GERMANS BOADA S A ; GERMANS BOADA S A RUBI ES ; GERMANS BOADA SA

Inventor(s): (std): REBOLLAR GARCIA RAFAEL ; DURAN CONESA SALVADOR

Inventor(s): DURAN CONESA SALVADOR 08191 RUBI BARCELONA ES ; REBOLLAR GARCIA RAFAEL E 08191 RUBI BARCELONA ES

Designated states: AT BE CH DE DK FR GB GR IE IT LI LU MC NL PT SE

2) Family number: 44883011 (EP2174919A2)

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Title: BRITTLE MATERIAL PLIERS

Abstract: The present invention is intended to improve the quality of glass cut surfaces and to improve the yield when a glass plate is cut. Glass pliers (1) comprise a first lever (2) and a second lever (3). The first lever (2) has a glass pressing component (15) at a distal end and a grip (5) at a rear end. The second lever (3) has a glass holder (25) at a distal end and a grip (10) at a rear end, the second lever being turnably supported on the first lever (2). The glass holder (25) has an elastically deformable elastic plate (26) having less rigidity than the glass plate and extending a predetermined length in a left-to-right direction which intersects the cut groove, and an elastic plate support part (27) for supporting the left and right ends of the elastic plate (26) relative to the second lever (3). The glass pressing component (15) has a pressing plate (16a) for applying a distributed load wider than the groove width of the cut groove to the glass plate.

Classifications:
International (IPC 8-9): B25B7/00 B28D1/22 B28D5/00 B28D7/04 C03B33/12 (Advanced/Invention);
B25B7/00 B28D1/22 B28D5/00 B28D7/00 C03B33/00 (Core/Invention);
C03B33/12 (Core/Non-invention)
CPC: Y02P40/57 C03B33/12
European: C03B33/12

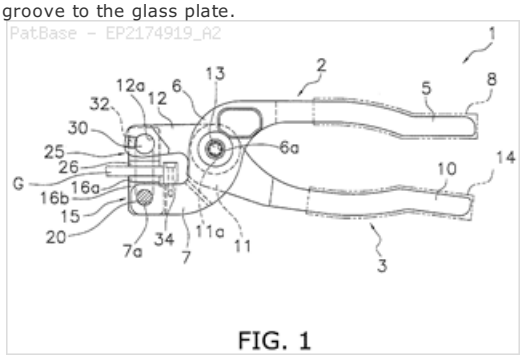


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
CN101712187 A	20100526	CN200910178842	20090929
CN101712187 B	20121114	CN200910178842	20090929
EP2174919 A2	20100414	EP20090170566	20090917
EP2174919 A3	20130904	EP20090170566	20090917
JP2010089361 A2	20100422	JP20080261001	20081007
JP2010089385 A2	20100422	JP20080262030	20081008
JP5216522 B2	20130619	JP20080261001	20081007
JP5216524 B2	20130619	JP20080262030	20081008
KR101140182 B1	20120502	KR20090083873	20090907
KR20100039218 A	20100415	KR20090083873	20090907
TW201018652 A	20100516	TW20090133860	20091006
TWI369340 B	20120801	TW20090133860	20091006

Priority:

JP20080261001 20081007 JP20080262030 20081008

Probable Assignee: MITSUBOSHI DIAMOND IND CO LTD

Assignee(s): (std): MITSUBOSHI DIAMOND IND CO LTD

Assignee(s): MITSUBOSHI DIAMOND INDUSTRIAL CO ; MITSUBOSHI DIAMOND INDUSTRIAL CO LTD ; MITSUBOSHI DIAMOND INDUSTRIAL CO LTD JP ; MITSUBOSHI DIAMOND IND CO

Inventor(s): (std): MAEKAWA KAZUYA ; SAKAGUCHI RYOTA ; KAZUYA MAEKAWA ; RYOTA SAKAGUCHI

Agent(s): TBK PATENT; TBK

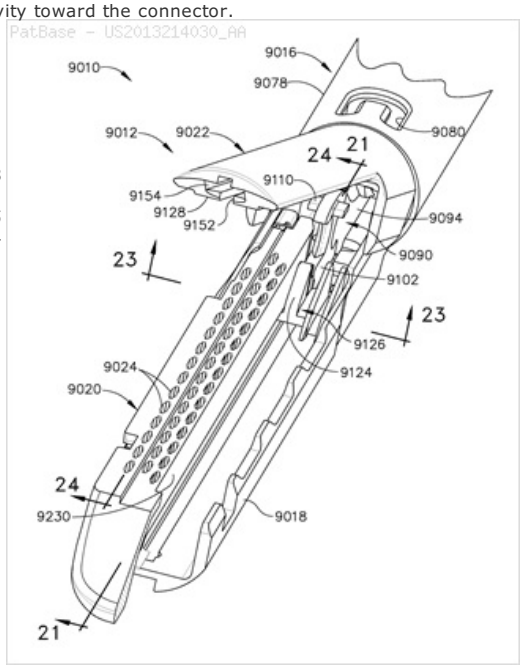
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

3) Family number: 62925012 (US2013214030A)

Title: ACTUATOR FOR RELEASING A TISSUE THICKNESS COMPENSATOR FROM A FASTENER CARTRIDGE

Abstract: A fastener cartridge assembly for use with a surgical end effector. The fastener cartridge assembly can comprise a cartridge body having fastener cavities, fasteners removably positioned in the fastener cavities, a layer of material releasably secured relative to the cartridge body, a connector configured to secure the layer of material to the cartridge body at a location distal to at least one fastener cavity, and an actuator. The layer of material can be a tissue thickness compensator. When actuated, the actuator can overcome the connector, and can overcome the connector prior to the removal of the fasteners from the fastener cavities. The actuator can be actuated at a location proximal to at least one fastener cavity, and can extend distally past at least one fastener cavity toward the connector.

Classifications:
International (IPC 8-9): A61B17/04 A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/32 A61B90/00 (Advanced/Non-invention)
CPC: A61B17/068 A61B17/0644 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 A61B17/00491 A61B17/0682 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643
US: 227/176.1



Family:

Publication number	Publication date	Application number	Application date
US2013214030 AA	20130822	US20130763035	20130208
US10213198 BB	20190226	US20130763035	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763035 20130208 US20130763078 20130208 US20130763094 20130208
US20130763065 20130208 US20130763048 20130208 US20130763042 20130208
US20130763028 20130208 US20130763054 20130208 US20130763112 20130208
US20130763106 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON LLC

Assignee(s): ETHICON ENDO SURGERY LLC

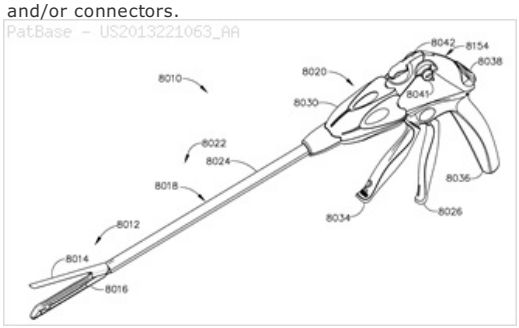
Inventor(s): (std): VENDELY MICHAEL J ; ARONHALT TAYLOR W ; SHELTON IV FREDERICK E ; LLOYD BRANDON J ; WEANER LAUREN S

4) Family number: 62925013 (US2013221063A)

Title: RELEASABLE TISSUE THICKNESS COMPENSATOR AND FASTENER CARTRIDGE HAVING THE SAME

Abstract: A fastener cartridge assembly for use with a surgical end effector. The fastener cartridge assembly can comprise a cartridge body, fasteners, and a layer of material releasably secured to the cartridge body. The layer of material can be a tissue thickness compensator. The cartridge body, the fasteners, the tissue thickness compensator and/or the end effector can comprise various features to releasably secure the tissue thickness compensator relative to the cartridge body. For example, the cartridge body can comprise slots, projections, cavities, drivers, locks, and/or keys, the fasteners can comprise barbs, and/or the tissue thickness compensator can comprise mounts and/or connectors.

Classifications:
International (IPC 8-9): A61B17/04 A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/32 A61B90/00 (Advanced/Non-invention)
CPC: A61B17/068 A61B17/0644 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 A61B17/00491 A61B17/0682 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643
US: 227/176.1



Family:

Publication number	Publication date	Application number	Application date
US2013221063 AA	20130829	US20130763042	20130208
US9861361 BB	20180109	US20130763042	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763042 20130208 US20130763035 20130208 US20130763048 20130208
US20130763065 20130208 US20130763078 20130208 US20130763094 20130208
US20130763028 20130208 US20130763054 20130208 US20130763106 20130208
US20130763112 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON LLC

Assignee(s): ETHICON ENDO SURGERY LLC

Inventor(s): (std): VENDELY MICHAEL J ; ARONHALT TAYLOR W ; SHELTON IV FREDERICK E ; SCHELLIN EMILY A ; REYNOLDS II DONALD L

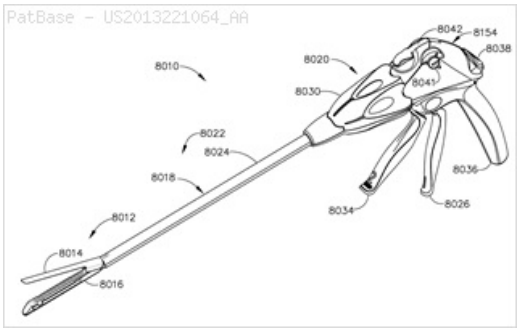
5) Family number: 62925014 (US2013221064A)

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Title: FASTENER CARTRIDGE COMPRISING A RELEASABLE TISSUE THICKNESS COMPENSATOR

Abstract: A fastener cartridge can comprise, one, a cartridge body configured to at least partially store a plurality of fasteners therein and, two, a layer of material attached to the cartridge body by a retention member. The retention member can be deactivated to release the layer from the cartridge body when a firing member is moved through the cartridge body to eject the fasteners from the cartridge body. The retention member can be deactivated at the beginning, the end, and/or at any suitable time during a firing stroke of the firing member. Certain fastener cartridges can comprise a plurality of retention members configured to releasably hold the layer to the cartridge body. In certain circumstances, the retention members can be sequentially released in order to progressively release the layer.

Classifications:
International (IPC 8-9): A61B17/068
A61B17/072 (Advanced/Invention);
A61B17/00 A61B17/064 A61B17/10 A61B17/115 A61B17/29
A61B17/32 A61B90/00 B25C5/16 (Advanced/Non-invention)
CPC: A61B17/068 A61B17/0644 A61B17/072 A61B17/07292
A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327
A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818
A61B2017/00862 A61B2017/00884 A61B2017/00893
A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235
A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264
A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916
A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933
A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037
A61B17/00491 A61B17/0682 A61B17/0686 A61B17/105
A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643
US: 227/176.1



Family:

Publication number	Publication date	Application number	Application date
US2013221064 AA	20130829	US20130763048	20130208
US9700317 BB	20170711	US20130763048	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763048 20130208 US20130763035 20130208 US20130763065 20130208
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US20130763112 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON ENDO SURGERY LLC

Assignee(s): ETHICON LLC

Inventor(s): (std): ISAACS MICHAEL T ; SHELTON IV FREDERICK E ; FEDS JOHN E ; ARONHALT TAYLOR W ; WEANER LAUREN S ; HUNT JOHN V ; SCHELLIN EMILY A ; VENDELY MICHAEL J ; MILLER MICHEAL J ; LLOYD BRANDON J ; MILLER MICHAEL J

6) Family number: 30086015 (US2001034064A)

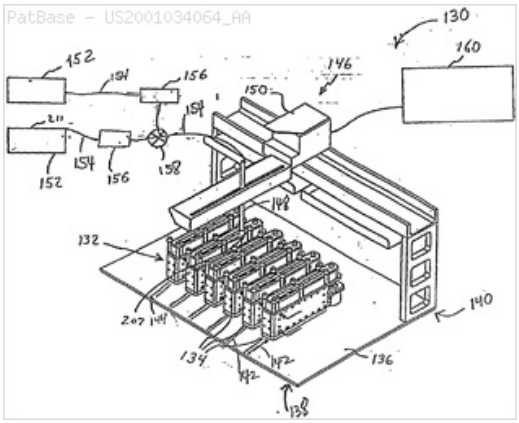
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Title: PARALLEL REACTOR WITH INTERNAL SENSING

Abstract: An apparatus and method for carrying out and monitoring the progress and properties of multiple reactions is disclosed. The method and apparatus are especially useful for synthesizing, screening, and characterizing combinatorial libraries, but also offer significant advantages over conventional experimental reactors as well. The apparatus generally includes multiple vessels for containing reaction mixtures, and systems for controlling the stirring rate and temperature of individual reaction mixtures or groups of reaction mixtures. In addition, the apparatus may include provisions for independently controlling pressure in each vessel, and a system for injecting liquids into the vessels at a pressure different than ambient pressure. In situ monitoring of individual reaction mixtures provides feedback for process controllers, and also provides data for determining reaction rates, product yields, and various properties of the reaction products, including viscosity and molecular weight.

Classifications:
International (IPC 8-9): B01F13/06 B01F13/08 B01F15/00 B01F7/16
B01J10/00 B01J19/00 B01J19/18 B01J19/26 B01J8/10 B01J8/14
B01J8/20 B01L3/00 B01L7/00 B01N3/00 B01N3/02 B08B3/00
B25J11/00 B25J9/02 B32B27/04 C40B40/14 C40B40/18 C40B60/00
F28F27/00 G01K13/00 G01N1/22 G01N21/25 G01N31/00 G01N33/00

G01N33/44 G01N35/00 G05B19/042 G05B23/02 G05D21/00 G05D23/19 G05D27/02 (Advanced/Invention);
B01F13/06 B01F13/08 B01F7/00 B01J19/18 B01J19/26 C40B40/14 C40B40/18 C40B60/14 G01N11/16 G01N35/00 G01N35/04 G01N35/10 G05B23/02 (Advanced/Non-invention);
B01F15/00 B01F7/16 B01J10/00 B01J19/00 B01J8/20 B01L3/00 B01L7/00 B32B27/00 C40B60/00 F28F27/00 G01K13/00 G01N21/25 G01N31/00 G01N33/00 G05B19/04 G05D21/00 G05D23/19 G05D27/00 (Core/Invention);
B01F13/00 B01F7/00 C40B40/04 C40B40/18 C40B60/14 G01N11/10 G01N35/00 G01N35/04 G01N35/10 (Core/Non-invention)
International (IPC 1-7): B01F13/08 B01F15/00 B01F7/00 B01F7/16 B01J B01J10/00 B01J19/00 B01J19/18 B01J19/26 B01J2/00 B01J3/00 B01J8/00 B01J8/14 B01L3/02 B01L9/06 B08B1/00 B08B3/00 B25J11/00 B25J9/02 B32B27/04 F28D9/00 F28F27/00 G01K13/00 G01K17/00 G01L5/00 G01L7/00 G01N1/10 G01N1/22 G01N11/00 G01N21/00 G01N21/64 G01N21/75 G01N25/20 G01N29/00 G01N31/00 G01N31/10 G01N33/00 G01N33/44 G01N33/48 G01N35/00 G01N7/00 G05B19/042 G05B23/02 G05D16/00 G05D21/00 G05D23/19



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Family:

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Probable Assignee: FREESLATE INC

Assignee(s): (std): BEEK JOHANNES A M VAN ; CHANDLER WILLIAM H ; DALES G CAMERON ; HIGASHIHARA KENNETH S ; DIAMOND GARY ; MURPHY VINCE ; FRANK TREVOR G ; FREITAG J CHRISTOPHER ; ERDEN LYNN VAN ; HAJDUK DAMIAN A ; MANSKY PAUL ; MATSIEV LEONID ; MCFARLAND ERIC ; SYMYX TECHNOLOGIES INC ; TROTH JONAH R ; TURNER HOWARD ; NIELSEN RALPH B ; WANG PEI ; SYMYX TECHNOLOGIES

Assignee(s): VAN BEEK JOHANNES A ; SYMYX SOLUTIONS INC ; SYMYX TECHNOLOGIES A CORP OF DE ; VANERDEN LYNN ; VAN BEEK JOHANNES A M ; SAFIR ADAM ; VAN BEEK JOHANNES AM ; UNCHAINED LABS ; DIAMOND GARY M ; HUFFMAN DAVE ; SYMYX TECHNOLOGIES A CORP ; VAN ERDEN LYNN ; TIEDE RICHARD ; NIELSEN RALPH ; MCWAID THOMAS H ; FREESLATE INC ; CHANDLER WILLIAM H JR ; DALES G ; APTUIT (KANSAS CITY) LLC ; APTUIT (WEST LAFAYETTE) LLC ; APTUIT KANSAS CITY LLC ; APTUIT WEST LAFAYETTE LLC

Inventor(s): (std): HAJDUK DAMIAN A ; HIGASHIHARA KENNETH S ; HUFFMAN DAVE ; LYNN VAN ERDEN ; MANSKY PAUL ; MATSIEV LEONID ; MCFARLAND ERIC ; MCWAID THOMAS H ; MCWAID THOMAS HARDING ; MURPHY VINCE ; NIELSEN B ; NIELSEN RALOPH B ; NIELSEN RALPH ; NIELSEN RALPH B ; NIELSON RALPH B ; BEEK JOHANNES A M VAN ; CHANDLER JR WILLIAM H ; CHANDLER WILLIAM H ; CHANDLER WILLIAM H JR ; DALES CAMERON ; DALES CAMERON G ; DALES G C ; DALES G CAMERON ; DIAMOND GARY ; DIAMOND GARY M ; ERDEN LYNN VAN ; FRANK TREVOR G ; FREITAG CHRISTOPHER J ; FREITAG J CHRISTOPHER ; HAJDUK A ; RUST WILLIAM C ; SAFIR ADAM ; TIEDE RICHARD ; TROTH JONAH R ; TURNER HOWARD ; TURNER HOWARD W ; VAN BEEK A ; VAN BEEK JOHANNES A ; VAN BEEK JOHANNES A M ; VAN ERDEN LYNN ; VANBEEK JOHANNES A M ; VANERDEN LYNN ; WANG PEI

Inventor(s): VANBEEK JOHANNES AM ; VAN BEEK JOHANNES AM ; RALPH B NIELSEN ; PEI WANG ; PAUL MANSKY ; LEONID MATSIEV ; JOHANNES A M VAN BEEK ; HOWARD TURNER ; G CAMERON DALES ; ERIC MCFARLAND ; DAMIAN A HAJDUK ; DALES G ; ADAM SAFIR ; VAN BEEK JOHANNES ; THOMAS HARDING MCWAID ; HAJDUK DAMIAN ; FREITAG JCHRISTOPHER ; RICHARD TIEDE

Agent(s): RIDOUT AND MAYBEE LLP; SENNIGER POWERS

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

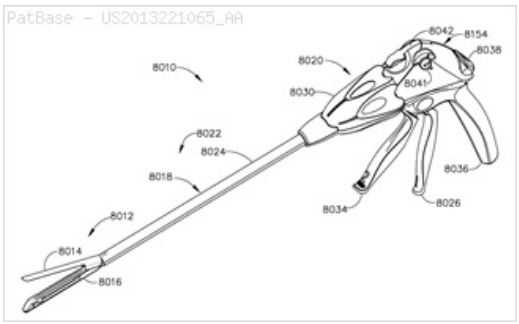
7) Family number: 62925015 (US2013221065A)

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Title: FASTENER CARTRIDGE COMPRISING A RELEASABLY ATTACHED TISSUE THICKNESS COMPENSATOR

Abstract: A fastener cartridge can comprise a cartridge body and a layer, such as a tissue thickness compensator, for example, releasably attached to the cartridge body. The tissue thickness compensator can comprise a compressible first portion and a second support portion. The second portion can be rigid and can support the first portion when mounted thereto. The properties of the first portion and/or the second portion can be selected so as to prevent the premature deflection and release from the cartridge body. The fastener cartridge can further comprise one or more attachment portions configured to releasably hold the tissue thickness compensator to the cartridge body. The attachment portions can be configured to permit a firing member to pass therethrough. In some circumstances, the tissue thickness compensator can be configured to hold the firing member in an unfired position until a sufficient firing force has been applied to the firing member.

Classifications:
International (IPC 8-9): A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/32 (Advanced/Non-invention)
CPC: A61B17/068 A61B17/0644 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 A61B17/0682 A61B17/00491 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643
US: 227/176.1



Family:

Publication number	Publication date	Application number	Application date
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US9566061 BB	20170214	US20130763065	20130208

Priority:

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Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON ENDO SURGERY LLC

Assignee(s): ETHICON LLC

Inventor(s): (std): SETSER MICHAEL E ; SHELTON IV FREDERICK E ; ARONHALT TAYLOR W ; MILLER MICHAEL J ; VENDELY MICHAEL J ; LLOYD BRANDON J

8) Family number: 58500015 (US2016184041A)

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Title: POP-UP LAMINATE STRUCTURES WITH INTEGRATED ELECTRONICS

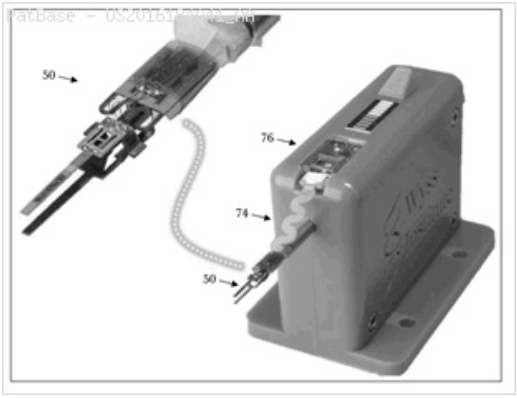
Abstract: A multi-layer, super-planar laminate structure can be formed from distinctly patterned layers. The layers in the structure can include at least one rigid layer and at least one flexible layer; the rigid layer includes a plurality of rigid segments, and the flexible layer can extend between the rigid segments to serve as a joint. The layers are then stacked and bonded at selected locations to form a laminate structure with inter-layer bonds, and the laminate structure is flexed at the flexible layer between rigid segments to produce an expanded three-dimensional structure, wherein the layers are joined at the selected bonding locations and separated at other locations. A layer with electrical wiring can be included in the structure for delivering electric current to devices on or in the laminate structure.

Classifications:

International (IPC 8-9): A61B18/14 A61B34/00 A61M5/172 A61M5/42 A61N1/02 B25J9/00 B32B37/12 B32B38/04 B81B7/00 B81C99/00 H05K1/02 H05K1/18 (Advanced/Invention)

CPC: A61B2017/00345 A61B2017/00402 A61B2017/2926 B81B2207/99 A61B2090/064 B81B7/008 H05K1/0278 H05K1/18 A61B18/148 A61B2018/00577 A61B2017/00039 A61B2017/0011 A61B2017/00203 A61B2017/00526 A61B2017/00867 A61B2018/00595 A61B2018/146 A61B2562/0261 A61B2562/028 A61B34/72 A61B18/1442 B81C99/0095

US: 156/226 156/60 29/606 310/311 361/749 428/156 606/174 606/206 606/45 606/52



Family:

Publication number	Publication date	Application number	Application date
US2016184041 AA	20160630	US20140909792	20140804
WO15020945 A2	20150212	WO2014US49571	20140804
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Priority:

US20130862066P 20130804 US20140909792 20140804 WO2014US49588 20140804

Probable Assignee: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): (std): HARVARD COLLEGE

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Inventor(s): (std): DUBROVSKY ZIVTHAN ; GAFFORD JOSHUA ; GOLDBERG BENJAMIN ; KARPELSON MICHAEL ; KESNER SAMUEL ; O DONNELL KATHLEEN ; SMITH MICHAEL ; WALSH CONOR ; WOOD ROBERT ; WOOD ROBERT J ; WALSH CONOR J ; SMITH MICHAEL J ; KESNER SAMUEL B ; GOLDBERG BENJAMIN I ; GAFFORD JOSHUA B

Agent(s): SAYRE ROBERT; SAYRE ROBERT J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

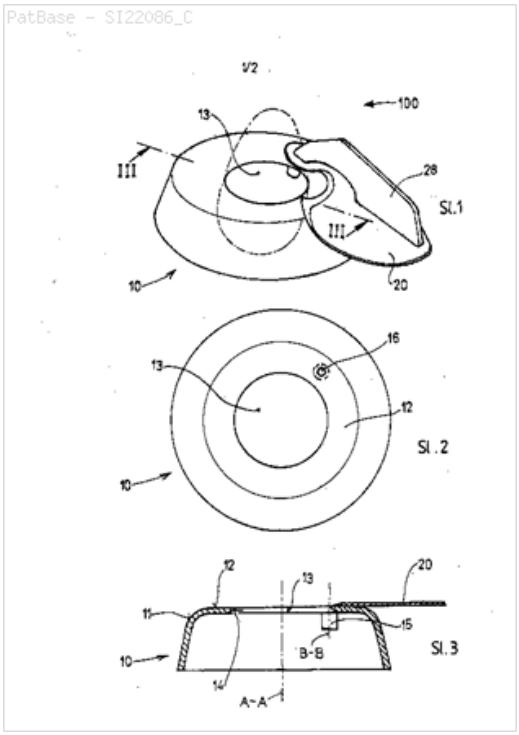
9) Family number: 34321015 (SI22086C)

Title: TOOL FOR MANUAL CUTTING OF ROUND AND/OR OVAL FOODSTUFF, IN PARTICULAR EGGS

Abstract: The tool for cutting of round and/or oval-shaped foodstuff, preferably eggs with shell, consists of a handle (10, 10') for eggs, which is shaped like a round bowl turned upside-down featuring a centrally located round opening (13, 13') within the flat part, and an even flat blade (20). On its upper surface, from the opening (13, 13'), the handle (10, 10') features a radially shifted throughhole (16, 16') whose central axis (B-B) is parallel to the axis of symmetry (A-A) of the handle. The lower surface of the blade (20) features a plug (27), which stands off the blade (20). The holder (10, 10') and blade (20) are detachably fitted with the help of a plug (27) and throughhole (16, 16'). The blade (20) is with a handle (10, 10') detachably attached in such a way that it performs a sliding oscillating movement perpendicularly to the axis of symmetry (A-A) of the holder along the upper part of the holder thus cutting the egg in the even plane. The blade (20) features a cutting edge (22) of convex-concave shape, so that the tangent of the round opening (13, 13') of the holder and the tangent of the cutting edge (22) are not parallel until at least 70 percent of the cut on the circumference is completed.

Classifications:

International (IPC 8-9): B26B13/00 B26D1/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
SI22086 C	20070228	SI20050000197	20050704

Priority:

SI20050000197 20050704

Probable Assignee: BRCAR PETER

Assignee(s): (std)**:** BRCAR PETER

Assignee(s): BRCARAPeterAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Inventor(s): (std)**:** BRCAR PETER

10) Family number: 70418016 (US2018194020A)

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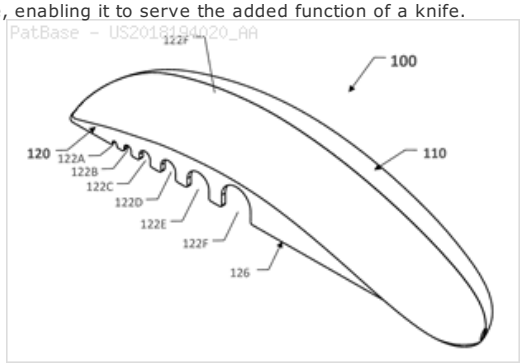
Title: HERB-STRIPPING DEVICES, ASSEMBLIES, COMPONENTS, AND METHODS

Abstract: Conventional herb strippers can be tedious, time consuming, and awkward to use. Accordingly, the present inventors devised new tools and methods that allow faster and easier herb stripping. One tool includes an herb stripping notch configured to engage the plant stem of an herb at an intermediate point between its two ends, with the edges of the notch stripping leaves as the notch is moved over the stem or the stem is pulled through the notch. In some embodiments, one or more of these notches, for example six, are included in a blade structure, with the notches arranged in a smallest-to-largest sequence. The blade structure may also includes a knife edge, enabling it to serve the added function of a knife.

Classifications:

International (IPC 8-9): A47J17/00 B26B11/00 (Advanced/Invention)

CPC: B26B11/006 B26B1/02 A47J17/00 B26B13/12



Family:

Publication number	Publication date	Application number	Application date
US2018194020 AA	20180712	US20180912987	20180306

Priority:

US20150129609P 20150306 US20160063500 20160307 US20180912987 20180306

Probable Assignee: PAYNTER MELESSA E

Assignee(s): (std)**:** PAYNTER MELESSA E ; WAYMIRE KATHERINE

Inventor(s): (std)**:** WAYMIRE KATHERINE ; PAYNTER MELESSA E

11) Family number: 71028020 (US2018250001A)

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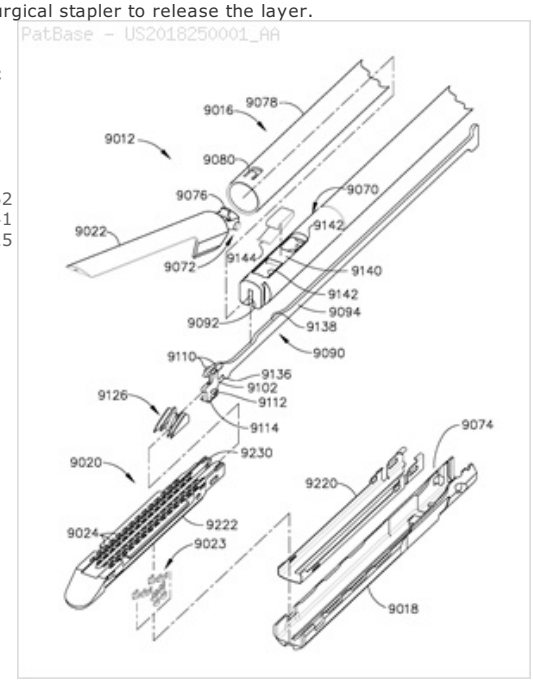
Title: ANVIL LAYER ATTACHED TO A PROXIMAL END OF AN END EFFECTOR

Abstract: An anvil-attachable layer for use with a surgical stapler, or fastening instrument, wherein a proximal end portion of the layer is attached to a staple cartridge assembly, for example. The layer may be attached to the staple cartridge assembly by an adhesive, weld, or a staple-cartridge-based clamp, wherein the attachment is weak enough to allow the layer to pull away from the staple cartridge assembly with stapled tissue. Alternatively, the layer can include two or more lateral slits that define a connector region that can be cut by a knife of a surgical stapler to release the layer.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/29 A61B17/32 A61B90/00 (Advanced/Non-invention)

CPC: A61B17/00491 A61B17/0644 A61B17/068 A61B17/0682 A61B17/0686 A61B17/072 A61B17/07207 A61B17/07292 A61B17/105 A61B17/1155 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 B25C5/1686 A61B17/0643



Family:

Publication number	Publication date	Application number	Application date
US2018250001 AA	20180906	US20170853306	20171222

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763078 20130208 US20130763035 20130208 US20130763094 20130208
US20130763065 20130208 US20130763048 20130208 US20130763042 20130208
US20130763028 20130208 US20130763054 20130208 US20130763112 20130208
US20130763106 20130208 US20170853306 20171222

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON LLC

Inventor(s): (std): ARONHALT TAYLOR W ; HENDERSON CORTNEY E ; SMITH BRET W ; SCHMID KATHERINE J ; SCHEIB CHARLES J ; SHELTON IV FREDERICK E ; SWAYZE JEFFREY S

12) Family number: 62925025 (US2013256377A)

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Title: LAYER COMPRISING DEPLOYABLE ATTACHMENT MEMBERS

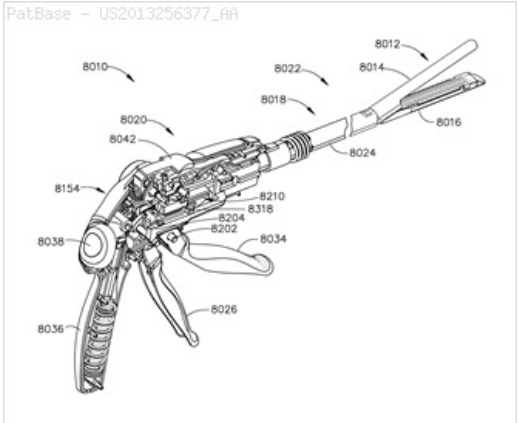
Abstract: An anvil-attachable layer and a retainer for aligning and attaching the layer to an anvil of a surgical stapler. Embodiments of the anvil-attachable layer can include one or more attachment features extending from the layer. A retainer can push the attachment features into a knife slot in the anvil so that the fit between the attachment features and the slot hold the anvil-attachable layer in place. Other embodiments of the anvil-attachable layer can include deployable attachment features formed in the layer. The deployable attachment features can be deployed from an undeployed position substantially in a plane defined by the layer to a deployed position extending out of the plane. In the deployed position, the deployable attachment features can extend into a slot in an anvil. A retainer can include features to push the deployable attachment features into the deployed position.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/29 A61B17/32 A61B90/00 (Advanced/Non-invention)

CPC: A61B17/068 A61B17/0644 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 A61B17/00491 A61B17/0682 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643

US: 227/176.1



Family:

Publication number	Publication date	Application number	Application date

US2013256377 AA	20131003	US20130763094	20130208
US9788834 BB	20171017	US20130763094	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763094 20130208 US20130763035 20130208 US20130763078 20130208
US20130763065 20130208 US20130763048 20130208 US20130763042 20130208
US20130763028 20130208 US20130763054 20130208 US20130763106 20130208
US20130763112 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON LLC

Assignee(s): ETHICON ENDO SURGERY LLC

Inventor(s): (std): SHELTON IV FREDERICK E ; ARONHALT TAYLOR W ; SCHMID KATHERINE J ; SWAYZE JEFFREY S ; VENDELY MICHAEL J ; SMITH BRET W ; HENDERSON CORTNEY E

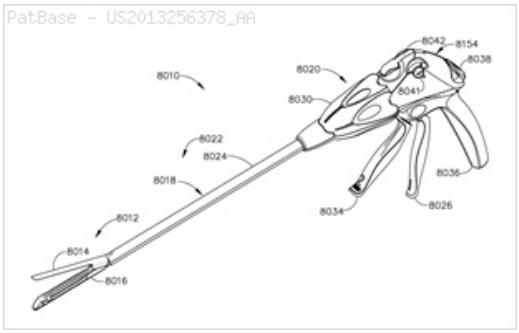
Agent(s): K AND L GATES LLP

13) Family number: 62925026 (US2013256378A)

Title: END EFFECTOR COMPRISING A DISTAL TISSUE ABUTMENT MEMBER

Abstract: A fastener cartridge can comprise a cartridge body comprising fastener cavities, fasteners at least partially stored within the cartridge body, and a layer positioned over the cartridge body. The cartridge body can include a proximal end and a distal end. Similarly, the layer can include a proximal end and a distal end. The distal end of the layer can extend distally with respect to the distal end of the cartridge body. Furthermore, the layer can include a distal portion which extends distally with respect to the fastener cavities defined in the cartridge body. This distal portion can be positioned against the tissue being fastened and can flexibly support the tissue after the layer has been implanted against the tissue. The layer may include a proximal portion which extends proximally with respect to the fastener cavities which can flexibly support the tissue after the layer has been implanted.

Classifications:
International (IPC 8-9): A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/32 (Advanced/Non-invention)
CPC: A61B17/068 A61B17/0644 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 A61B17/00491 A61B17/0682 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643
US: 227/176.1



Family:

Publication number	Publication date	Application number	Application date
US2013256378 AA	20131003	US20130763106	20130208
US9592050 BB	20170314	US20130763106	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763035 20130208 US20130763078 20130208 US20130763094 20130208
US20130763065 20130208 US20130763048 20130208 US20130763042 20130208
US20130763028 20130208 US20130763054 20130208 US20130763106 20130208
US20130763112 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON ENDO SURGERY LLC

Assignee(s): ETHICON LLC

Inventor(s): (std): SCHMID KATHERINE J ; SHELTON IV FREDERICK E ; SMITH BRET W

14) Family number: 23279029 (WO0245977A2)

Title: MULTI-AXIAL LEVER SYSTEM

Abstract: A lever coupling system that transforms the force done in one of it's extremity lever into another force greater in intensity in the other extremity lever, or the opposite effect pursuant to in what extremity lever it's exerted, with the possibility of connecting the system to other mechanisms, like motors, combinations with gas or liquid-pumps, use in various tools, exercise machines, car elevators, stretchers and others, with regulation and/or control accessories.

Classifications:
International (IPC 8-9): F16H21/44 (Advanced/Invention); F16H21/00 (Core/Invention)
International (IPC 1-7): A63B21/06 B23D29/02 B25B7/12 B60F B66D3/02 B66F3/00 F16H51/00
CPC: F16H21/44
European: F16H21/44

PatBase - WO0245977_A2

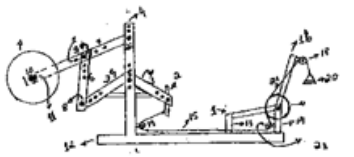


FIG 1
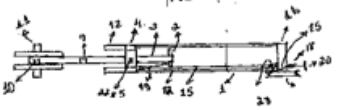


FIG 2

Family:

Publication number	Publication date	Application number	Application date
AU2002221361 AA	20020618	AU20020221361	20011204
BRPI0006470 A	20020709	BR2000PI06470	20001204
WO0245977 A2	20020613	WO2001BR00150	20011204
WO0245977 A3	20030501	WO2001BR00150	20011204

Priority:

BR2000PI06470 20001204 WO2001BR00150 20011204

Probable Assignee: GRANDI ALBERTO MESQUINA

Assignee(s): (std)**:** GRANDI ALBERTO MESQUINA ; GRANDI ALBERTO MESQUITA

Assignee(s): ALBERTO MESQUINA GRANDI ; ALBERTO MESQUITA GRANDI

Inventor(s): (std)**:** GRANDI ALBERTO MESQUINA ; GRANDI ALBERTO MESQUITA

Inventor(s): ALBERTO MESQUINA GRANDI ; ALBERTO MESQUITA GRANDI

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

15) Family number: 62925030 (US2013256383A)

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Title: ANVIL LAYER ATTACHED TO A PROXIMAL END OF AN END EFFECTOR

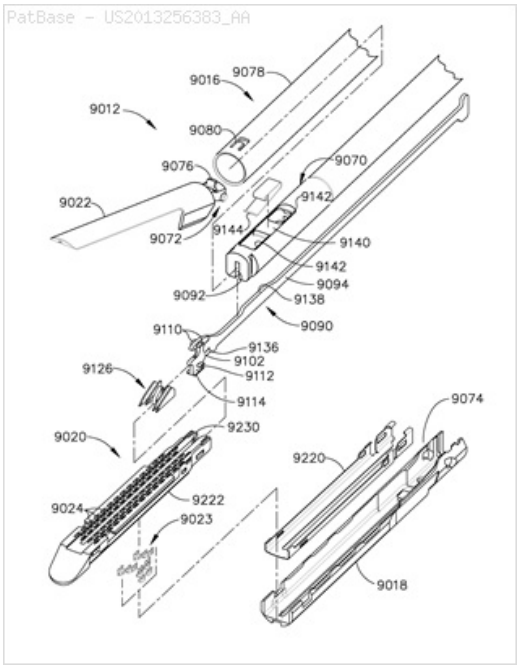
Abstract: An anvil-attachable layer for use with a surgical stapler, or fastening instrument, wherein a proximal end portion of the layer is attached to a staple cartridge assembly, for example. The layer may be attached to the staple cartridge assembly by an adhesive, weld, or a staple-cartridge-based clamp, wherein the attachment is weak enough to allow the layer to pull away from the staple cartridge assembly with stapled tissue. Alternatively, the layer can include two or more lateral slits that define a connector region that can be cut by a knife of a surgical stapler to release the layer.

Classifications:

International (IPC 8-9): A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/32 A61B90/00 (Advanced/Non-invention)

CPC: A61B17/0644 A61B17/068 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 A61B17/00491 A61B17/0682 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643

US: 227/176.1 227/180.1



Family:

Publication number	Publication date	Application number	Application date
US2013256383 AA	20131003	US20130763078	20130208
US9848875 BB	20171226	US20130763078	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763078 20130208 US20130763035 20130208 US20130763094 20130208
US20130763065 20130208 US20130763048 20130208 US20130763042 20130208
US20130763028 20130208 US20130763054 20130208 US20130763112 20130208
US20130763106 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std)**:** ETHICON ENDO SURGERY INC ; ETHICON LLC

Assignee(s): ETHICON ENDO SURGERY LLC

Inventor(s): (std)**:** SHELTON IV FREDERICK E ; ARONHALT TAYLOR W ; SCHMID KATHERINE J ; SWAYZE JEFFREY S ; SCHEIB CHARLES J ; SMITH BRET W ; HENDERSON CORTNEY E

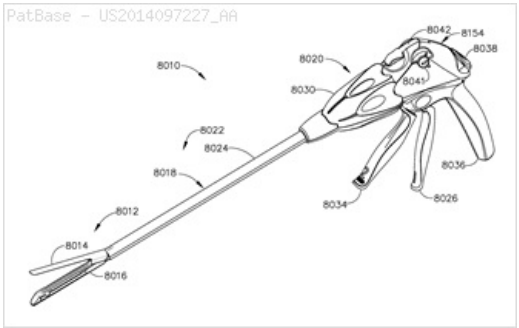
16) Family number: 62925031 (US2014097227A)

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Title: FASTENER CARTRIDGE COMPRISING A CUTTING MEMBER FOR RELEASING A TISSUE THICKNESS COMPENSATOR

Abstract: A staple cartridge, or fastener cartridge, for a surgical stapler, or fastening instrument, wherein the staple cartridge includes a distally-located cutting blade arranged to cut a distal end portion of a layer, such as a tissue thickness compensator and/or a buttress material, for example, attached to the staple cartridge. The distally-located cutting blade can extend out of a distal cavity of the staple cartridge. The distally-located cutting blade can move in a direction that is perpendicular to a staple deck of the staple cartridge. The distally-located cutting blade can also move in any suitable direction relative to the staple deck.

Classifications:
International (IPC 8-9): A61B17/064 A61B17/068 A61B17/072 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/32 A61B19/00 (Advanced/Non-invention)
CPC: A61B17/068 A61B17/072 A61B17/07292 A61B17/2909 A61B2017/00004 A61B2017/0053 A61B2017/00477 A61B2017/00526 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/0725 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2019/307 A61B17/0644 A61B2017/00314 A61B2017/00327 A61B2090/037 A61B17/0682 A61B17/00491 A61B17/0686 A61B17/105 A61B17/1155 B25C5/1686 A61B17/07207 A61B17/0643
US: 1/1 227/180.1



Family:

Publication number	Publication date	Application number	Application date
US2014097227 AA	20140410	US20130763054	20130208
US9272406 BB	20160301	US20130763054	20130208

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763054 20130208 US20130763028 20130208 US20130763035 20130208
US20130763042 20130208 US20130763048 20130208 US20130763065 20130208
US20130763078 20130208 US20130763094 20130208 US20130763106 20130208

US20130763112 20130208

Probable Assignee: ETHICON LLC

Assignee(s): (std)**:** ETHICON ENDO SURGERY INC ; ETHICON ENDO SURGERY LLC

Assignee(s): ETHICON LLC

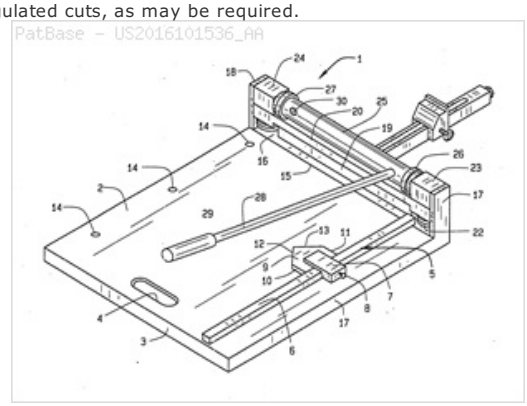
Inventor(s): (std)**:** VENDELY MICHAEL J ; ARONHALT TAYLOR W ; SHELTON IV FREDERICK E ; WIDENHOUSE CHRISTOPHER W

17) Family number: 62109033 (US2016101536A)

Title: PLANK AND TILE CUTTER INCORPORATING SCALE MEANS

Abstract: A plank and tile cutter incorporating a back gauge, the apparatus having a table incorporating a cutting blade for cutting tiles, operated through a pivotal and leveraged handle, cam operated, to forcefully lower the cutting blade into a cutting operation. The back gauge secures to the backside of the apparatus, and the gauge includes a scale to provide for precise measurement of the tile to be cut, and includes a guide that not only supports the backside of the tile to its precise dimension to be cut, but also furnishes support for the lead end of the tile during performance of the shearing function. The guide of the back gauge can be easily loosened, for resetting, simply by viewing its applied scale, and then refastened tightly to provide the guide for repeat cutting through the use of the cutter during application. Related types of side rails and angled guides may be provided upon the surface of the table, to further angulated cuts, as may be required.

Classifications:
International (IPC 8-9): B26D1/08 B26D5/16 B26D7/01 B28D1/22 (Advanced/Invention)
CPC: B26D7/016 B28D1/225 B26D1/085 B26D1/08 B26D5/16
US: 83/468



Family:

Publication number	Publication date	Application number	Application date
US2016101536 AA	20160414	US20150756634	20150928

Priority:

US20140122099P 20141010 US20150756634 20150928

Probable Assignee: DICKERSON DENNIS R

Assignee(s): (std)**:** DICKERSON DENNIS R ; GUNDLACH GREGORY J

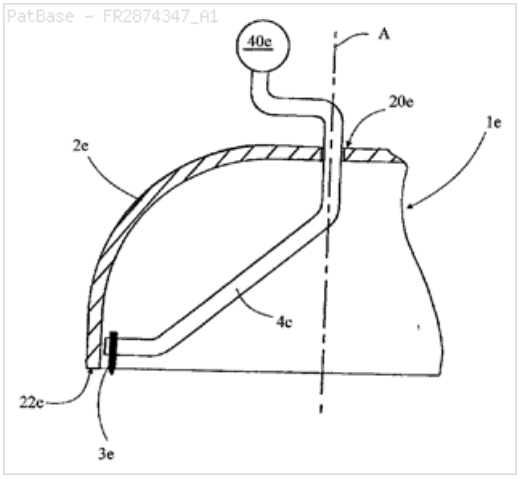
Inventor(s): (std)**:** DICKERSON DENNIS R ; GUNDLACH GREGORY J

18) Family number: 32662037 (FR2874347B)

Title: DISPOSITIF DE DECOUPE D'UNE ETIQUETTE DANS UNE FEUILLE DECOREE, PROCEDE DE MISE EN OEUVRE ET KIT DE FABRICATION D'ETIQUETTES ADHESIVES NOTAMMENT POUR CEDEROM

Abstract: The device (1e) has a circular cover (2e) with a central opening (20e) through which a handle (40e) permits to cause rotation of a rotating arm (4e). A free end of the arm is provided with a cutting tool (3e) e.g. blade. Edge of the cover delimits a maintenance surface (22e) of a decorated sheet to be cut so that a cutting line followed by the tool is tangential to the maintenance surface. - Independent claims are also included for the following: - (A) an adhesive labels manufacturing kit for CD-ROM - (B) a method of cutting a label in a decorated sheet.

Classifications:
International (IPC 8-9): B26B29/06 B26D1/06 B26D9/00 B26F1/38 (Advanced/Invention); B26B29/00 B26D1/01 B26D9/00 B26F1/38 (Core/Invention)
CPC: B26F1/3846
European: B26F1/38C



Family:

Publication number	Publication date	Application number	Application date
FR2874347 A1	20060224	FR20040009007	20040820

FR2874347 B1	20080215	FR20040009007	20040820

Priority:

FR20040009007 20040820

Probable Assignee: BALMER DAVID

Assignee(s): (std)**:** BALMER DAVID ; BALMER HUGUES

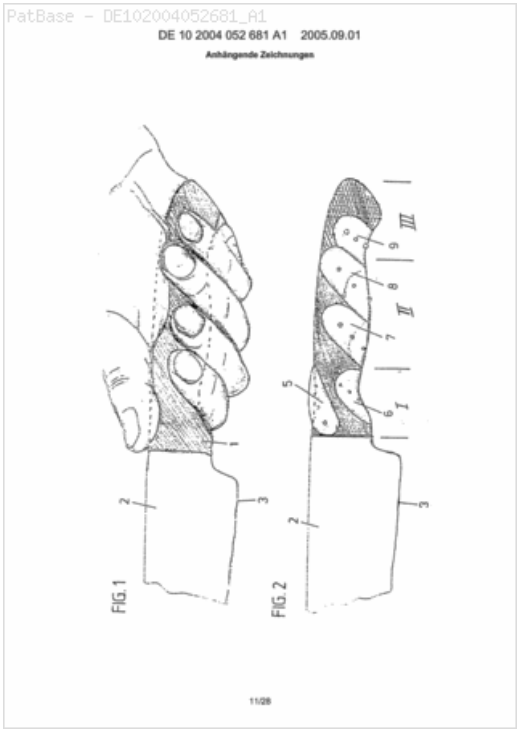
Inventor(s): (std)**:** BALMER DAVID ; BALMER HUGUES

19) Family number: 32198037 (DE102004052681A1)

Title: HANDLE FOR UNIVERSAL APPLICATIONS E.G. CUTLERY KNIFE, PERAMBULATOR, PUSHCHAIR, LEVER, TENNIS RACKET OR HAND TOOL

Abstract: A handle for universal applications e.g. knife has a series of finger-conformal detents with compressible surfaces yielding slightly to finger grip. In an alternative embodiment the handle has a series of rings of different diameter and forming a suitable hand-conformal profile that perform the same function. The detent surfaces may be made of plastic, ceramic, mineral or metal materials.

Classifications:
International (IPC 8-9): A47G21/02 A61H39/04 B25G1/10 B26B3/00 B62B5/06 B62B9/20 B62K21/26 (Advanced/Invention);
A45B9/02 (Advanced/Non-invention);
A47G21/00 A61H39/04 B25G1/00 B26B3/00 B62B5/00 B62B9/00 B62K21/00 (Core/Invention);
A45B9/00 (Core/Non-invention)
International (IPC 1-7): B25G1/10
CPC: A47G21/02 A45B9/02 A61H39/04 A61H2205/065 B25G1/10 B26B3/00 B62B5/069 B62B9/20 B62K21/26 A63B60/08 A63B60/10 A63B60/12 A63B49/08 A63B53/14 A63B60/00
European: A47G21/02 A61H39/04 B25G1/10 B26B3/00 B62B5/06 B62B9/20 B62K21/26 K45B9/02 K61H205/06B L62B5/06U



Family:

Publication number	Publication date	Application number	Application date
DE102004052681 A1	20050901	DE200410052681	20041029
DE102004052681 B4	20101209	DE200410052681	20041029

Priority:

DE200410004751 20040130 DE200410052681 20041029

Probable Assignee: CHOE DANIEL

Assignee(s): (std)**:** CHOE DANIEL

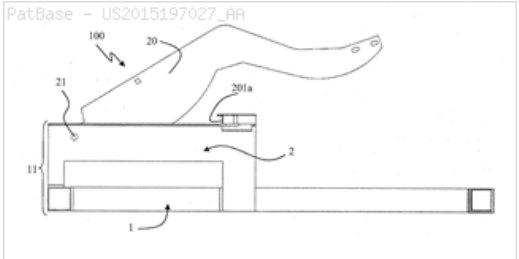
Inventor(s): (std)**:** CHOE DANIEL

20) Family number: 59778039 (US2015197027A)

Title: REMOVABLE STOP FOR A BOARD-CUTTING TOOL, AND CUTTING TOOL COMPRISING SUCH A REMOVABLE STOP

Abstract: An economic and well-performing stop for a board-cutting tool comprising: a support, a blade mounted on the support via a pivot so that it can pivot between an open position for receiving, between the support and the blade, the board that is to be cut, and a closed position at the end of cutting, a slot intended to receive at least part of the blade during the cutting, the slot being borne by a portion of the support and comprising a proximal end close to the pivot and a distal end, distant from the pivot, comprising a shoulder; The stop (200) is characterized in that it comprises, with respect to the position of use: a contact face (201) for contact with the board that is to be cut; and a central claw (202) intended to be forcibly inserted under the shoulder (4) of the slot.

Classifications:
International (IPC 8-9): B26D1/30 B26D7/01 B28D1/22 (Advanced/Invention)
CPC: B26D7/01 B26D1/30 B26D7/015 B26D7/016 Y10T83/7593
US: 83/467.1



Family:

Publication number	Publication date	Application number	Application date
DE602015000746 D1	20170105	DE201560000746T	20150112
DK2907630 T3	20170116	DK20150000041T	20150112
EP2907630 A1	20150819	EP20150000041	20150112
EP2907630 B1	20161123	EP20150000041	20150112
FR3016312 A1	20150717	FR20140050247	20140113
FR3016312 B1	20160122	FR20140050247	20140113
US2015197027 AA	20150716	US20150594351	20150112

Priority:

FR20140050247 20140113 EP20150000041 20150112

Probable Assignee: PIERRE GREHAL ET CIE ETS SA

Assignee(s): (std): PIERRE GREHAL ET CIE ETS SA

Inventor(s): (std): MARCON LIONEL

Inventor(s): LIONEL MARCON

Agent(s): RATABOUL XAVIER; BE LEADER INNOVATION

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

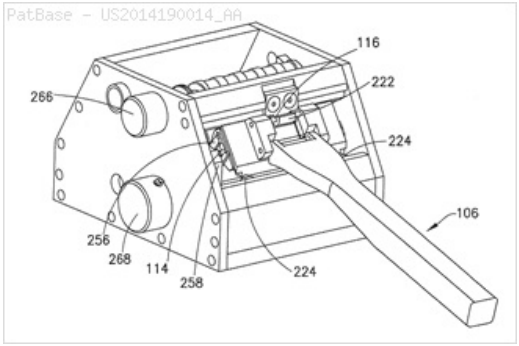
21) Family number: 56885039 (US2014190014A)

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Title: RAZOR AND RAZOR TREATMENT SYSTEM

Abstract: A razor treatment system includes a razor having a head, and a razor treatment device including a drum rotationally supported within the razor treatment device, at least two cam members supported within the razor treatment device, at least two guide members configured to cooperate with the cam members to expose the blade, and a first actuating member configured to effect rotation of the drum. The head includes a cover for housing a blade. The cover is configured to expose the blade. The razor interfaces with the razor treatment device to move the cover of the razor to expose the blade. Each cam member may define a cam track that guides linear retraction of the blade, rotational movement of the blade and cover, and linear extension of the blade into a position between the drums.

Classifications:
International (IPC 8-9): B24B3/48 B26B21/40 B26B21/50 (Advanced/Invention)
CPC: B26B21/50 B26B21/4037 B26B21/40 B26B21/4012 B26B21/4062
US: 30/35 30/527 451/241



Family:

Publication number	Publication date	Application number	Application date
US2014190014 AA	20140710	US20140149236	20140107
US9676111 BB	20170613	US20140149236	20140107
WO14110031 A1	20140717	WO2014US10491	20140107

Priority:

US20130750079P 20130108 US20140149236 20140107

Probable Assignee: LEAF SHAVE CO LLC

Assignee(s): (std): HONE RAZOR CO LLC ; LEAF SHAVE CO LLC

Inventor(s): (std): HAHN ADAM J

Agent(s): WEBB LAW FIRM; MEDER JULIE W ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

22) Family number: 18017040 (DE19716431A1)

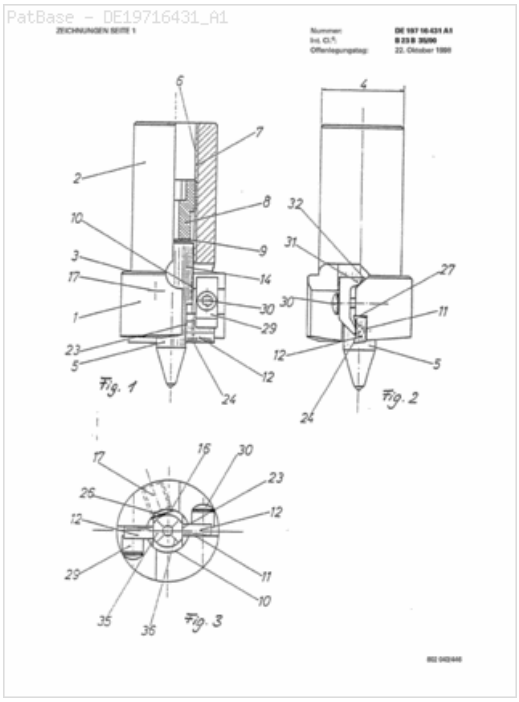
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Title: COMBINATION TOOL FOR DEFORMING PLATES AND PROFILED SECTIONS

Abstract: The functioning areas of the tool which produce the passage in the components and which shape the entrance to the passages are separated. This is so that passages with a cylindrical or conical inner geometry can be formed in any material thickness by a single axially length-adjustable shaping mandrel (5). Plates are inserted in the foundation body (1) of the tool to shape the upper passage entrance and the material which is displaced against the feed direction of the mandrel as the passage is formed is either reformed or removed through the geometric shape of the inserted plates so that a flat countersunk or collar like bearing face can be produced. The inserted plates can have a cutting edge.

Classifications:
International (IPC 8-9): B23B51/10 B26F1/16 (Advanced/Invention); B23B51/10 B26F1/16 (Core/Invention)
International (IPC 1-7): B21D31/02 B23B35/00 B23B51/08
CPC: B26F1/165 B21J5/066 B23B51/10

European: B23B51/10 B26F1/16B



Family:

Publication number	Publication date	Application number	Application date
DE19716431 A1	19981022	DE19971016431	19970418

Priority:

DE19971016431 19970418

Probable Assignee: HEILER ROLAND DIPL ING

Assignee(s): (std)**:** HEILER ROLAND DIPL ING ; TIKAL FRANZ PROF DR ING

Assignee(s): TIKAL FRANZ PROF DR ING 34212 MELSUNGEN DE ; HEILER ROLAND DIPL ING 64668 RIMBACH DE

Inventor(s): (std)**:** HEILER ROLAND DIPL ING ; TIKAL FRANZ PROF DR ING

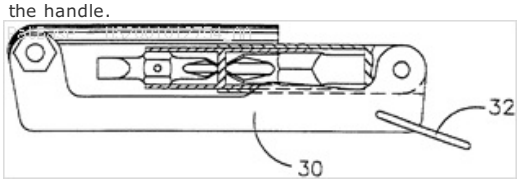
Inventor(s): TIKAL FRANZ PROF DR ING 34212 MELSUNGEN DE ; HEILER ROLAND DIPL ING 64668 RIMBACH DE

23) Family number: 30003043 (US2001012754A)

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Title: Multiple sleeve interchangeable tool bit pocket tool

Abstract: A pocket hand tool has tow opposing sleeves which are pivotally connected to opposite ends of a new pocket tool handle. Each sleeve slidably receives interchangeable tool bits. The sleeves are selectively pivoted from an inoperable position within the handle to an operable position disposed away from the handle.



Classifications:
International (IPC 8-9): B25B11/00 B25B15/02 B25B23/12 B25B9/00 B25F1/00 B25F1/02 B25F1/04 B25G1/04 B25G1/08 B25G1/10 H01F13/00 (Advanced/Invention);
B25B23/02 B25F1/00 B25G1/00 (Core/Invention)
International (IPC 1-7): B24D15/00 B25B15/00 B25B15/02 B25B23/00 B25B23/08 B25B23/16 B25B7/22 B25F1/02 B25F1/04 B25G1/00 B25G1/04 B25G1/08 B44C7/00 H01F13/00 H01F7/02 H01F7/20 H02K7/14
CPC: B25B9/00 B25B11/002 B25B15/02 B25B23/12 H01F13/00 B25G1/085 B25G1/105 Y10S7/901 B25B15/008 B25F1/003 B25F1/02 B25F1/04 B25G1/043
European: B25B11/00B B25B15/00B2D B25B15/02 B25B23/12 B25B9/00 B25F1/00B B25F1/02 B25F1/04 B25G1/04S B25G1/08S B25G1/10S H01F13/00
US: 206/350 248/70 310/50 335/284 335/306 451/524 451/524P 7/105 7/118 7/128 7/129 7/165 7/167 7/168 7/901 81/125 81/177.2 81/177.4 81/177.400P 81/177.6 81/436 81/438 81/439 81/439P 81/440 81/440P 81/451 81/490 81/490P D8/83 D8/85

Family:

Publication number	Publication date	Application number	Application date
AT249319 E	20030915	AT19960303425T	19960515
AU200066328 A1	20010313	AU20000066328	20000811
AU200066328 A5	20010313	AU20000066328D	20000811
CN1060425 C	20010110	CN19961095131	19960524
CN1118355 C	20030820	CN20001018754	20000626
CN1189116 A	19980729	CN19961095131	19960524
CN1294957 A	20010516	CN20001018754	20000626
DE69629872 D1	20031016	DE19966029872	19960515
DE69629872 T2	20040729	DE19966029872T	19960515
EP0744251 A2	19961127	EP19960303425	19960515
EP0744251 A3	19970305	EP19960303425	19960515
EP0744251 B1	20030910	EP19960303425	19960515
EP1114701 A2	20010711	EP20010201157	19960515
EP1114701 A3	20020227	EP20010201157	19960515
US2001012754 AA	20010809	US20000745281	20001221

US2001029815 AA	20011018	US19990435709	19991108
US2002005095 AA	20020117	US19990309673	19990511
US2002035901 AA	20020328	US20010000926	20011019
US2002069729 AA	20020613	US20010901305	20010709
US2004065178 AA	20040408	US20030673604	20030929
US5711194 A	19980127	US19950451398	19950526
US5794497 A	19980818	US19960710485	19960918
US5819612 A	19981013	US19970960090	19971024
US5868048 A	19990209	US19970846070	19970425
US5904080 A	19990518	US19970977453	19971124
US5927164 A	19990727	US19970977027	19971124
US6026717 A	20000222	US19980121221	19980723
US6026718 A	20000222	US19980161855	19980928
US6032557 A	20000307	US19980144813	19980901
US6047619 A	20000411	US19990237784	19990126
US6050158 A	20000418	US19980192660	19981116
US6060801 A	20000509	US19980161851	19980928
US6082232 A	20000704	US19990237564	19990126
US6085620 A	20000711	US19990237563	19990126
US6105474 A	20000822	US19960690740	19960731
US6109148 A	20000829	US19990237463	19990126
US6119560 A	20000919	US19990237458	19990126
US6119561 A	20000919	US19990237556	19990126
US6131222 A	20001017	US19990436894	19991109
US6181229 BA	20010130	US19990376590	19990818
US6182541 BA	20010206	US19990237565	19990126
US6209428 BA	20010403	US19980168637	19981008
US6257106 BA	20010710	US19990237557	19990126
US6260453 BA	20010717	US19990237457	19990126
US6286400 BA	20010911	US20000489487	20000121
US6298756 BA	20011009	US20000568171	20000509
US6305256 BA	20011023	US20000692972	20001020
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US6356176 BA	20020312	US20000489484	20000121
US6374711 BB	20020423	US19990435709	19991108
US6499168 BA	20021231	US20000504190	20000215
US6655243 BB	20031202	US20010000926	20011019
USD491785 S1	20040622	US20030182191F	20030521
WO0113383 A1	20010222	WO2000US21958	20000811
WO9637343 A1	19961128	WO1996US07665	19960524

Priority:

US19950451398 19950526	US19960608195 19960228	US19960620471 19960322
EP19960303425 19960515	US19960690740 19960731	US19960710485 19960918
US19970846070 19970425	US19970904665 19970801	US19970904606 19970801
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US20000489484 20000121	US20000489487 20000121	US20000504190 20000215
US20000568171 20000509	WO2000US21958 20000811	US20000692972 20001020
US20000745281 20001221	US20010901305 20010709	US20010000926F 20011019
US20010000926 20011019	US20030182191F 20030521	US20030673604 20030929

Probable Assignee: ANDERSON FAMILY LLC

Assignee(s): (std)**:** ANDERSON ; ANDERSON WAYNE ; BEST WAY TOOLS ANDERSON INC ; BEST WAY TOOLS BY ANDERSON INC ; CASSUTTI PAOLO ; WAYNE ANDERSON OPTIMUM TOOL CO ; WAYNE ANDERSSON OPTIMUM TOOL C ; WAYNE ANDERSSON OPTIMUM TOOL CO ; WAYNE ANDERSON OPTIMUM TOOL CORP ; WAYNE ANDERSON OPTIMUM TOOL COUP

Assignee(s): WAYNE ANDERSON ; ANDERSON ET AL ; ANDERSON FAMILY LLC ; ANDERSON WARREN

Inventor(s): (std)**:** ANDERSON W ; ANDERSON WARREN ; ANDERSON WAYNE ; ANDERSSON WAYNE ; CASSATY PAUL ; CASSUTTI P ; CASSUTTI PAOLO ; PAOLO CASSUTTI ; PAUL CASSATY ; PCASSUTTI ; WANDERSON ; WAYNE ANDERSON ; WAYNE ANDERSSON ; CASSUITTI PALO

Inventor(s): W ANDERSON ; P CASSUTTI

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

24) Family number: 43840047 (US2006280565A)

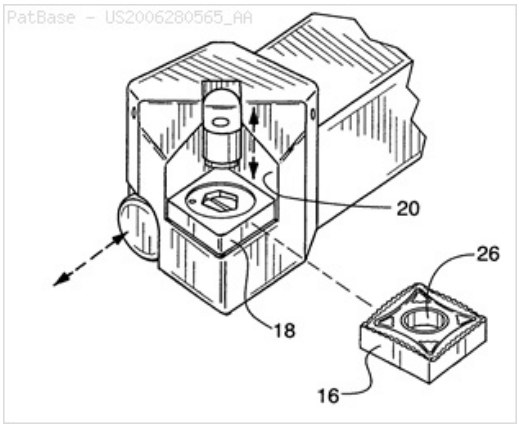
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Title: QUICK CHANGE HOLDER FOR CUTTING TOOL

Abstract: A quick change tool holder is provided for cutter inserts on machine tools which comprises a housing which is adapted to receive and conform to the shape of a cutter insert. A pivoting arm is mounted in the insert housing and rotates about a pivot therein. The pivoting arm has a clamp portion extending from the pivot to a position over a seat portion which is adapted to engage a cutter insert. In addition, the pivoting arm has an arm extending from the pivot opposite the clamp portion. Lastly, a cam is engaged by a distal end of the arm. The cam has a clamp position which forces the clamp portion to engage a cutter insert and a release position which forces the clamp portion to disengage from a cutter insert to allow thereof. The cam moves between the release position and the clamp position.

Classifications:

International (IPC 8-9): B23B27/00 B23B27/16 B23C5/22 B23P15/28 B26D1/00 (Advanced/Invention);
B23B27/16 B23B29/00 B23P15/28 B26D1/00 (Advanced/Non-invention);
B23B27/00 B23B27/16 B23C5/16 B23P15/00 B23P15/28 B26D1/00 (Core/Invention);
B23B27/16 B23B29/00 B26D1/00 (Core/Non-invention);
B23P (Subclass/Invention)
CPC: Y10T407/225 Y10T407/2282 Y10T407/229 Y10T407/2264 Y10T407/2266 Y10T407/2292 Y10T407/2202 Y10T407/2208 Y10T407/2254 Y10T407/2256 B23C5/2247 B23C5/06 B23C2200/045 B23C2226/18 B23C2226/31 B23C2226/72 B23C2260/12 B23C2260/84 B23B2205/12 B23B2260/136 B23B2270/09 B23B27/1666 B23B27/1662 B23B2205/16
European: B23B27/16P B23C5/06 B23C5/22C1B L23C200/04G L23C226/18 L23C226/31 L23C226/72 L23C260/12 L23C260/84
US: 407/107 407/111 407/111P 407/112 407/67 407/70 407/91 407/93 407/94 407/98 407/99



Family:

Publication number	Publication date	Application number	Application date
AU2006254884 AA	20061214	AU20060254884	20060606
BRPI0611957 A2	20101013	BR2006PI11957	20060606
CA2609422 AA	20071123	CA20062609422	20060606
CN101193725 A	20080604	CN200680020503	20060606
DE602006031120 D1	20120927	DE200660031120T	20060606
EP1802414 A2	20070704	EP20060772619	20060606
EP1802414 A4	20110504	EP20060772619	20060606
EP1802414 B1	20120801	EP20060772619	20060606
IL187785 A0	20080807	IL20060187785	20060606
JP2008543580 T2	20081204	JP20080515939T	20060606
JP5117380 B2	20130116	JP20080515939T	20060606
KR20080024120 A	20080317	KR20077028621	20060606
US2006280565 AA	20061214	US20050148118	20050608
US2006280566 AA	20061214	US20060366139	20060302
US2007116530 AA	20070524	US20070656854	20070123
US2008075542 AA	20080327	US20070998058	20071128
US7153069 BA	20061226	US20050148118	20050608
US7322775 BB	20080129	US20060366139	20060302
US7575399 BB	20090818	US20070998058	20071128
US7600951 BB	20091013	US20070656854	20070123
WO06133378 A2	20061214	WO2006US22377	20060606
WO06133378 A3	20070201	WO2006US22377	20060606
WO06133378 B1	20070412	WO2006US22377	20060606

Priority:

US20050148118 20050608 US20060366139 20060302 US20060366739 20060302
EP20060772619 20060606 WO2006US22377 20060606 US20070656854 20070123
US20070998058 20071128

Probable Assignee: CHARLES VAN HORSSEN

Assignee(s): (std): CHARLES A VAN HORSSEN ; CHARLES VAN HORSSEN ; HORSSEN CHARLES A VAN ; HORSSEN CHARLES VAN ; VAN HORSSEN CHARLES A

Assignee(s): VAN HORSSEN CHARLES A PHOENIX

Inventor(s): (std): HORSSEN CHARLES A VAN ; VAN HORSSEN CHARLES A

Inventor(s): VAN HORSSEN CHARLES ; VAN HORSSEN CHARLES A PHOENIX ; CHARLES A VAN HORSSEN

Agent(s): PEGASUS IP; IP SOLVED ANZ PTY LTD; SMART AND BIGGAR; PATENTANWAELTE HENKEL BREUER AND PARTNER; CROWHURST CHARLOTTE WAVENEY; SOGA MICHIHARU; FRANK J MCGUE; FRANK J; MCGUE FRANK J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

25) Family number: 28847056 (US2003138378A)

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Title: METHOD AND APPARATUS FOR EXAMINING TISSUE FOR PREDEFINED TARGET CELLS, PARTICULARLY CANCEROUS CELLS, AND A PROBE USEFUL IN SUCH METHOD AND APPARATUS

Abstract: A method, apparatus and probe for examining tissue for the presence of target cells, particularly cancerous cells, by subjecting the tissue to be examined to a contrast agent containing small particles of a physical element conjugated with a biological carrier selectively bindable to the target cells. Energy pulses are applied to the examined tissue. The changes in impedance and/or optical characteristics of the examined tissue produced by the applied energy pulses are detected and utilized for determining the presence of the target cells in the examined tissue. In a described preferred embodiment, the applied energy pulses include laser pulses, and the physical element conjugated with a biological carrier is a light-sensitive semiconductor having an impedance which substantially decreases in the presence of light. The same probe used for detecting the targeted cells may also be used for destroying the cells so targeted.

Classifications:
International (IPC 8-9): A01H5/00 A61B A61B1/00 A61B1/018 A61B1/04 A61B1/05 A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B17/32 A61B18/08 A61B18/18 A61B19/00 A61B34/00 A61B5/00 A61B5/01 A61B5/04 A61B5/05 A61B5/053 A61B5/055 A61B5/06 A61B5/103 A61B5/117 A61B6/00 A61B6/03 A61B8/00 A61B8/08 A61B8/12 A61B8/13 A61B8/14 A61K49/00 A61K49/16 A61K49/18

A61M25/09 B25G3/38 C12M1/34 C12M3/00 C12Q1/00 G01M19/00 G01M99/00 G01N22/00 G01N22/02 G01N23/04 G01R27/26 G01R33/28 G01R33/34 G01R33/60 G01V3/00 G02B23/24 G06F17/30 G06F19/00 G06F3/048 G06F3/0481 G16H10/20 (Advanced/Invention); A61B10/00 A61B10/02 A61B17/00 A61B19/00 A61B34/20 A61B34/30 A61B5/00 A61B5/01 A61B5/053 A61B5/055 A61B5/06 A61B5/103 A61B6/00 A61B8/00 A61B8/12 A61B8/13 A61B90/00 G06F19/00 (Advanced/Non-invention); A01H5/00 A61B1/00 A61B1/012 A61B10/00 A61B17/00 A61B17/32 A61B18/04 A61B18/18 A61B19/00 A61B5/00 A61B5/05 A61B5/053 A61B5/055 A61B5/06 A61B5/103 A61B5/117 A61B6/00 A61B8/00 A61B8/08 A61B8/12 A61K49/06 A61M25/09 B25G3/00 G01N22/00 G01N23/02 G02B23/24 (Core/Invention); A61B10/00 A61B10/02 A61B17/00 A61B19/00 A61B5/00 A61B5/053 A61B5/055 A61B5/06 A61B6/00 A61B8/00 A61B8/12 (Core/Non-invention); A61B (Subclass/Invention)

International (IPC 1-7): A01H5/00 A61B A61B1/04 A61B10/00 A61B18/04 A61B5/05 A61B6/00 A61K49/00 G01N G01N22/00 G01V3/00 G06F17/30

CPC: G01R27/2664 A61B1/018 A61B1/04 A61B5/418 A61B5/4839 A61B10/0041 A61B10/0275 A61B17/320068 A61B18/24 A61B18/245 A61B2017/00022 A61B2017/00084 A61B2017/00809 A61B17/320016 A61B17/320783 Y10S607/901 A61B5/00 A61B5/0055 A61B5/444 A61B5/445 A61B6/00 A61B6/037 A61B8/00 A61B8/4455 B25G1/06 B25G1/102 A61B2560/0425 A61B8/445 A61B8/4245 A61B5/415 A61B5/0086 A61B5/01 A61B5/0507 A61B8/4472 A61B18/082 A61B2017/00026 A61B5/0062 A61B5/4381 A61B5/0073 A61B2017/00057 A61B2017/00061 A61B2017/00106 A61K49/00 A61B5/0071 A61B5/0075 A61B5/0091 A61B5/0538 A61B5/065 A61B5/411 A61B5/416 A61B90/39 A61B2034/107 A61B2034/2051 A61B2034/2055 A61B2090/367 A61B2090/378 A61B2090/395 G01R33/60 A61B10/0266 G01R33/3808 A61B6/032 A61B5/0059 A61B5/0536 A61B5/055 A61B5/103 A61B5/4312 A61B5/6834 A61B5/6843 A61B5/6844 A61B5/6885 A61B5/6886 A61B6/4417 A61B6/5247 A61B8/13 A61B5/068 A61B5/05 A61B5/0084 A61B5/015 A61B5/053 A61B5/06 A61B5/064 A61B8/0858 A61B8/12 A61B34/20 A61B34/25 A61B34/30 A61B2090/061 A61B2562/0233 A61B2562/046 G06F3/0481 G06F19/3481 A61B90/30 G16H10/20 G06F19/321 G16H40/63 G16H50/50

European: A61B1/018 A61B1/04 A61B10/00G A61B10/02P6N A61B17/3207S A61B17/32E A61B17/32U A61B18/08B A61B19/52H12 A61B19/56 A61B5/00 A61B5/00M6 A61B5/00P A61B5/00P1 A61B5/00P12B A61B5/00P12F A61B5/00P5 A61B5/00P6 A61B5/00P7 A61B5/01 A61B5/01B A61B5/05 A61B5/053 A61B5/053N A61B5/055 A61B5/05M A61B5/06 A61B5/41B A61B5/41J2 A61B5/41J4 A61B5/41J8 A61B5/43F2 A61B5/43M2 A61B5/44B4 A61B5/44B6 A61B5/48J2 A61B5/68B3F A61B5/68B5 A61B5/68B6 A61B5/68D5 A61B5/68D6 A61B6/03B A61B6/03D A61B8/08J A61B8/44N4 A61K49/00 B25G1/06 B25G1/10B G01R27/26D4D2 G01R33/38H G01R33/60 G06F19/32A G06F19/34A G06F19/34H G06F19/36A G06F3/0481 K61B10/02P6 K61B17/00C1 K61B17/00C1C K61B17/00C1L K61B17/00C1L2 K61B17/00C1T K61B17/00C1U K61B17/00R10 K61B18/24 K61B18/24B K61B19/22B K61B19/46B K61B19/50D K61B19/52B K61B19/52H12 K61B19/52H12B4 K61B19/52H12B6 K61B19/52H14 K61B19/52L6 K61B19/54 K61B19/54J6 K61B5/00 K61B5/00P K61B5/00P12B K61B5/00P12B2 K61B5/00P12F K61B5/00P5 K61B5/00P7 K61B5/01 K61B5/01B K61B5/053 K61B5/053H K61B5/055 K61B5/06 K61B5/06E K61B5/103 K61B560/04 K61B562/02G K61B562/04D K61B6/00 K61B8/00 K61B8/12 K61B8/13 K61B8/44N8 S06F19/32A S06F19/34N

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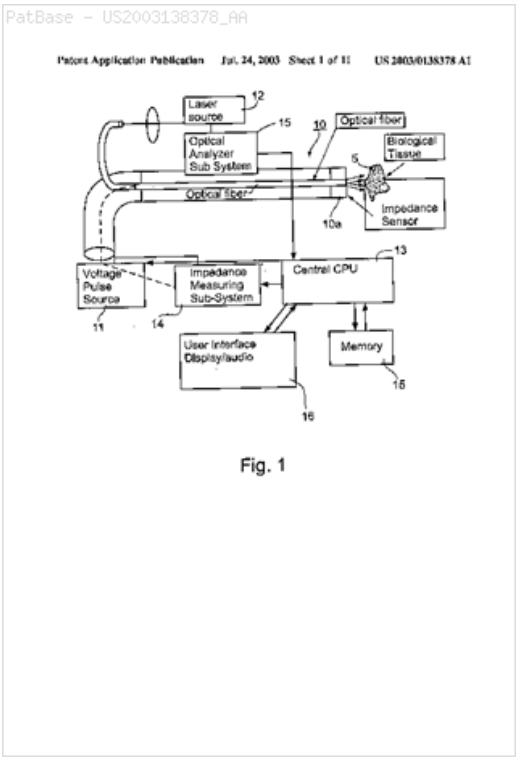


Fig. 1

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

26) Family number: 57131065 (US2014215839A)

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Title: POWER TOOL, SUCH AS A PORTABLE CIRCULAR SAW, HAVING IMPROVED BRAKING AND COOLING

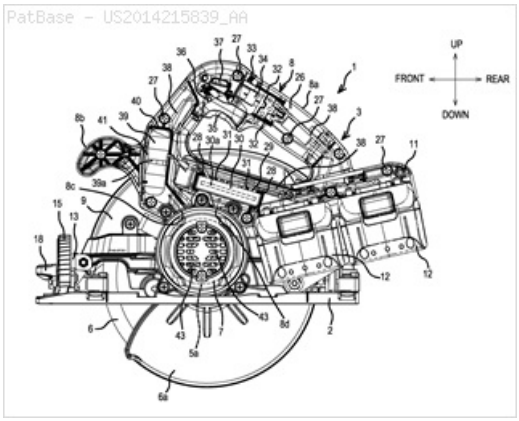
Abstract: A power tool, for example, a portable circular saw, includes a fan, a motor configured to rotate the fan, an output part or shaft driven by the motor, a motor housing that houses the motor, a grip housing connected to the motor housing, a trigger associated with the grip housing, and a brake member configured to brake a rotation of the motor, the brake member being mounted inside the grip housing. The brake member may be a resistive element of a rheostatic braking system. The housing and fan are configured such that cooling air is directed to cool the brake member.

Classifications:

International (IPC 8-9): B23D45/16 B23D47/00 B23Q11/12 B25F5/00 B26B7/00 B26D7/06 B26F3/00 B27B19/14 B27B5/38 B27B9/04 H02K7/106 H02K7/14 H02K9/06 (Advanced/Invention)

CPC: B27B5/38 B23Q11/126 H02K9/06 H02K7/106 B25F5/001 B25F5/008 H02K7/145 H02K11/0094

US: 30/388 310/60R



Family:

Publication number	Publication date	Application number	Application date
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JP20130018541 20130201 EP20140152718 20140127

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Agent(s): KRAMER BARSKE SCHMIDTCHEN PATENTANWAELTE PARTG MBB; KRAMER BARSKE SCHMIDTCHEN; SCOTT T; JEFFREY D; J TEK LAW PLLC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

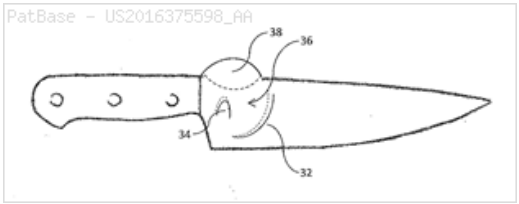
27) Family number: 64520068 (US2016375598A)

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Title: KNIFE WITH GRIP

Abstract: A grip for a knife, the knife characterized by a handle, a blade, a blade spine, and a blade edge, said grip comprising a forefinger grip located on a first face of the blade, said forefinger grip comprising a first forefinger guide, a second forefinger guide, and a forefinger retaining area configured to retain a first portion of a forefinger of a user; a thumb grip located on the second face of the blade, said thumb grip comprising a thumb guide and a thumb retaining area configured to retain a thumb of the user; and a platform located on the blade spine, said platform configured to provide support for a second portion the forefinger of the user.

Classifications:
International (IPC 8-9): B26B29/02 B26B3/00 (Advanced/Invention)
CPC: B26B29/02 B26B3/00
US: 30/295



Family:

Publication number	Publication date	Application number	Application date
US2016375598 AA	20161229	US20150752032	20150626
US9889573 BB	20180213	US20150752032	20150626

Priority:

US20150752032 20150626

Probable Assignee: SINGER NORMAN

Assignee(s): (std)**:** SINGER NORMAN

Inventor(s): (std)**:** SINGER NORMAN

Agent(s): PEARL COHEN ZEDEK LATZER BARATZ LLP

28) Family number: 51419080 (US2012169001A)

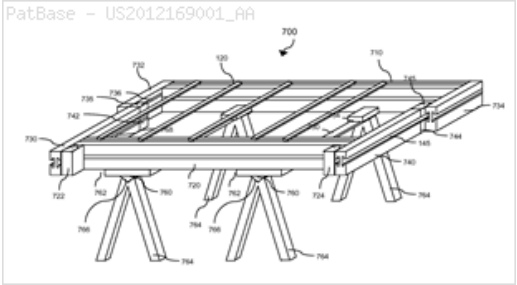
© PatBase

Title: MULTIFUNCTION WORK TABLE

Abstract: A work table having removably attachable support members extending between opposing frame members and a tool guide retention member extending along at least a portion of the frame. The work table may be collapsible. The tool guide retention member may be defined by a channel extending along at least a portion of the frame member. In turn, tool

guides may be attached to the frame using the tool guide retention member. As such, various guides for various operations to be performed on a work piece may be provided. The work piece may be indexed using indexing members or may be clamplingly engaged to the work table.

Classifications:
International (IPC 8-9): A47B3/00 B23D47/02 B23Q3/00 B25H1/02 B25H1/04 B25H1/08 B25H1/10 B25H1/14 B27B5/26 (Advanced/Invention)
CPC: B25H1/08 B25H1/10 B25H1/14 Y10T29/49826 Y10T428/24008 B23D47/025 B27B5/26 B25H1/02 Y10T83/8763
US: 108/18 269/289R 269/290 269/290P 269/291 269/296 269/296S 269/309 269/329 269/329S 29/428 428/99 83/574



Family:

Publication number	Publication date	Application number	Application date
US2012169001 AA	20120705	US20110985008	20110105
US2014197588 AA	20140717	US20140212615	20140314
US2014197589 AA	20140717	US20140212549	20140314
US2015128781 AA	20150514	US20150603518	20150123
US8967607 BB	20150303	US20110985008	20110105

Priority:

US20110985008 20110105 US20130800673P 20130315 US20140923106P 20140102
US20140212615 20140314 US20140212549 20140314 US20150603518 20150123

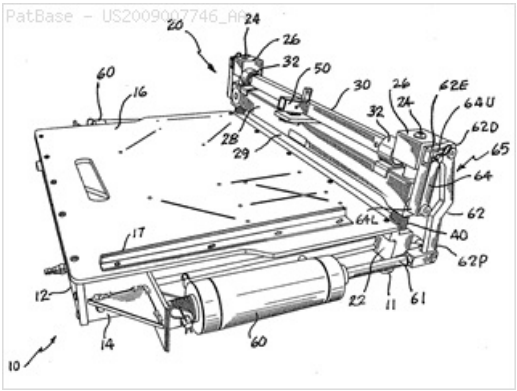
Probable Assignee: PREMYSL UHRIK LLC
Assignee(s): (std): DUCEK PREMYSL ; PREMYSL UHRIK LLC
Inventor(s): (std): DUCEK PREMYSL ; WOODWARD MARK ; ULRICH CRAIG
Agent(s): BRYAN CAVE LLP

29) Family number: 42777082 (US2009007746A)

Title: LIGHTWEIGHT TABLETOP SHEARING APPARATUS

Abstract: A material shearing apparatus uses a horizontal receiver bar in support of a pair of spaced apart vertical guide rods having retainer blocks fixed in place on them, and a shearing head slidingly engaged with the guide rods so as to move between raised and lowered positions. A camshaft rotates eccentrically in the retainer blocks so as to bear on the shearing head which is thereby moved downwardly against return springs.

Classifications:
International (IPC 8-9): B26D1/08 B26D5/08 B28D1/32 (Advanced/Invention); B26D1/01 B26D5/08 B28D1/00 (Core/Invention)
CPC: Y10T83/8726 Y10T83/874 B26D5/16 B26D1/08 B26D5/10 B26D5/12 B28D1/223
European: B26D1/08 B26D5/10 B26D5/12 B26D5/16 B28D1/22C1
US: 83/548 83/558



Family:

Publication number	Publication date	Application number	Application date
US2009007746 AA	20090108	US20070825423	20070706
WO09008984 A1	20090115	WO2008US08205	20080702

Priority:

US20070825423 20070706

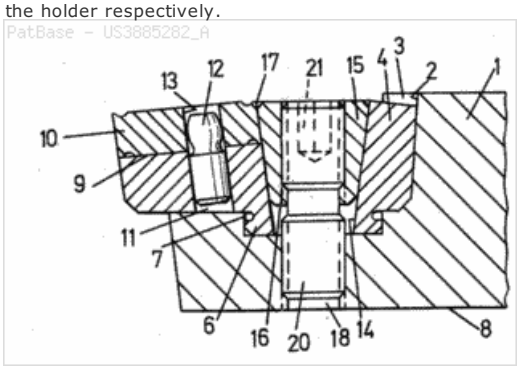
Probable Assignee: GUNNTECH MFG INC
Assignee(s): (std): GUNN DALEN E ; GUNN DALEN EUGENE ; GUNNTECH MFG INC
Assignee(s): GUNNTECH MANUFACTURING INC
Inventor(s): (std): GUNN DALEN E ; GUNN DALEN EUGENE
Agent(s): PATENT LAW AND VENTURE GROUP; SCOTT GENE
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

30) Family number: 1143082 (US3885282A)

Title: MACHINING TOOL

Abstract: A machining tool comprising a holder and an insert for carrying a cutting tool or bit, the insert being attachable to the holder by means of a conical recess in the insert, a clamping member which fits into the recess and a screw with opposite handed threads which screws into bores in the clamping member and the holder respectively.

Classifications:
International (IPC 8-9): B23B27/00 B23B27/16 (Advanced/Invention); B23B27/00 B23B27/16 (Core/Invention)
International (IPC 1-7): B26D1/00
CPC: B23B27/16 B23B27/00 Y10T407/2246 Y10T407/2274 Y10T407/2284
European: B23B27/00 B23B27/16
US: 29/98 29/980 407/103 407/108 407/89



Family:

Publication number	Publication date	Application number	Application date
US3885282 A	19750527	US19730408734	19731023

Priority:
US19730408734 19731023

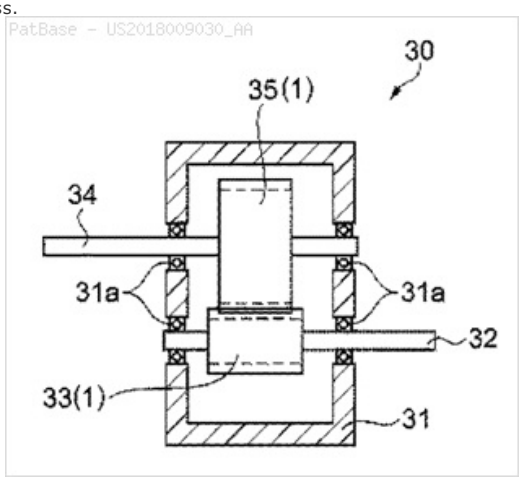
Probable Assignee: PATAKY JOSEF
Assignee(s): (std)**:** PATAKY JOSEF
Inventor(s): (std)**:** PATAKY JOSEF

31) Family number: 68162096 (US2018009030A)

Title: GEAR, DECELERATION DEVICE, ROBOT, AND MOVING OBJECT

Abstract: A gear includes a sintered body, in which Fe is contained as a principal component, Ni is contained in a proportion of 2 mass percent or more and 20 mass percent or less, Si is contained in a proportion of 0.3 mass percent or more and 5.0 mass percent or less, C is contained in a proportion of 0.005 mass percent or more and 0.3 mass percent or less, and one element selected from the group consisting of Ti, V, Y, Zr, Nb, Hf, and Ta is defined as a first element, that is contained in a proportion of 0.01 mass percent or more and 0.7 mass percent or less.

Classifications:
International (IPC 8-9): B22F1/00 B22F3/00 B22F3/16 B22F5/08 B25J19/00 C22C1/05 C22C33/02 C22C38/00 C22C38/02 C22C38/08 C22C38/12 C22C38/14 C22C38/16 C22C38/50 C22C38/52 F16H55/06 F16H55/17 (Advanced/Invention); C22C19/07 C22C38/10 C22C38/14 F16H55/06 (Advanced/Non-invention)
CPC: B22F1/0003 B22F3/162 B22F3/164 B22F3/001 B22F3/168 C22C19/07 C22C38/105 C22C38/14 F16H55/06 B22F2998/10 C22C1/053 C22C1/055 C22C33/0264 C22C33/0285 B22F5/08



Family:

Publication number	Publication date	Application number	Application date
CN107584126 A	20180116	CN201710497941	20170626
EP3266544 A1	20180110	EP20170179523	20170704
JP2018003127 A2	20180111	JP20160134537	20160706
JP6376178 B2	20180822	JP20160134537	20160706
US2018009030 AA	20180111	US20170637226	20170629

Priority:
JP20160134537 20160706

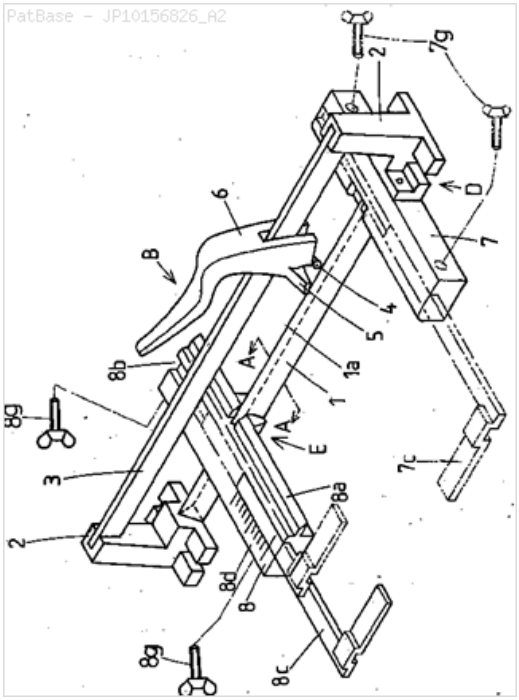
Probable Assignee: SEIKO EPSON CORP
Assignee(s): (std)**:** SEIKO EPSON CORP
Inventor(s): (std)**:** NAKAMURA HIDEFUMI ; HIDEFUMI NAKAMURA
Agent(s): HOFFMANN EITLE
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

32) Family number: 30168103 (JP10156826A)

Title: TILE CUTTER

Abstract: PROBLEM TO BE SOLVED: To provide a tile cutter which can cut a tile correctly irrespective of its thickness, is narrow, light, and easy of handling even in a type for large- sized tiles, can be made compact when stowed away to be easy of packaging and preservation, and also has many common parts to reduce costs. SOLUTION: A tile cutter is constituted from a cutter main body in which a pair of fixed struts 2 is erected at both ends of a support rail member 1 in which a projected support stripe 1a is formed on the longitudinal straight line of a top part, guide rails 3 are fixed to the struts 2 in parallel with the rail member 1 and right above the member 1, and a tile cutting operation body B equipped with a cutter 4 and a tile pressing foot 5 on the end lower surface of an operation lever 6 is supported freely attachably/detachably on the guide rails 3, a freely attachable/detachable tile setting contact member 7 fixed to either the strut 2 or the rail member 1, and a scale 8 for measuring the size of a cut tile which has a tile receiving plate 8a and is supported and bonded freely slidably on and to the rail member 1.

Classifications:
International (IPC 8-9): B26D1/04 B26D1/06 B28D1/22 B28D1/24 E04F21/20 (Advanced/Invention);
B28D1/22 E04F21/00 (Core/Invention);
B26D1/06 B28D1/22 (Core/Non-invention)
International (IPC 1-7): B26B25/00 B26B27/00 B26D1/04 B26D1/06 B28D1/22 B28D1/24 E04F21/18 E04F21/20
CPC: B28D1/225 E04F21/0076 E04F21/20
European: B28D1/22D E04F21/00Q E04F21/20



Family:

Publication number	Publication date	Application number	Application date
AU199745370 A1	19980528	AU19970045370	19971124
AU199745371 A1	19980716	AU19970045371	19971124
BRPI9705873 A	19990323	BR1997PI05873	19971125
BRPI9706437 A	19990921	BR1997PI06437	19971219
CN1183343 A	19980603	CN19971003748	19970402
DE19750055 A1	19980716	DE19971050055	19971112
DE19750055 C2	20010308	DE19971050055	19971112
DE19750480 A1	19980528	DE19971050480	19971114
DE19750480 C2	20010308	DE19971050480	19971114
ES2142736 AA	20000416	ES19970002467	19971126
ES2142736 BA	20001201	ES19970002467	19971126
FR2756208 A1	19980529	FR19970013631	19971030
FR2756208 B3	19990212	FR19970013631	19971030
FR2758289 A1	19980717	FR19970013630	19971030
FR2758289 B3	19990326	FR19970013630	19971030
IT1297558 B1	19991217	IT1997TO00968	19971105
IT1297559 B1	19991217	IT1997TO01001	19971114
ITTO970968 A0	19971105	IT1997TO00968	19971105
ITTO970968 A1	19980526	IT1997TO00968	19971105
ITTO971001 A0	19971114	IT1997TO01001	19971114
ITTO971001 A1	19980710	IT1997TO01001	19971114
JP10156826 A2	19980616	JP19960315039	19961126
JP10193336 A2	19980728	JP19970014618	19970110
JP3243600 B2	20020107	JP19960315039	19961126
TW344701 B	19981111	TW19970102863	19970308
TW357117 B	19990501	TW19970102866	19970308

Priority:
JP19960315039 19961126 JP19970014618 19970110

Probable Assignee: SANKEI BUSSAN KK

Assignee(s): (std): SANKEI BUSSAN K K ; SANKEI BUSSAN KK ; SANKEI BUTUSAN KABUSHIKI KAISHA ; SANKEI BUTUSAN KK ; SANKEIBUTUSAN CO LTD ; SANKEIBUTUSAN KABUSHIKI KAISHA

Assignee(s): SANKEIBUTUSAN CO LTD OSAKA JP ; SANKEIBUTUSAN KK ; SANKEI BUTUSAN KKJP ; SANKEIBUTUSAN CO ; SANKEIBUTUSAN CO LTD OSAKA

Inventor(s): (std): YASUGA MASATAKE ; AGA SEIKI ; YASUGA MASAKI ; SEIKI AGA

Inventor(s): MASAKI YASUGA ; YASUGA MASAKI OSAKA JP

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

33) Family number: 15622105 (US5605087A)

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Title: TAPE CUTTING APPARATUS

Abstract: A tape cutting apparatus which provides for cutting a multi-layered tape through only one layer of the tape. The apparatus includes a cutting device with a cutting blade wherein the cutting device is actuated by a drive mechanism and the position of the cutting device is controlled by a position controller. The apparatus further provides a braking mechanism to ensure that the cut is terminated at the proper position.

Classifications:

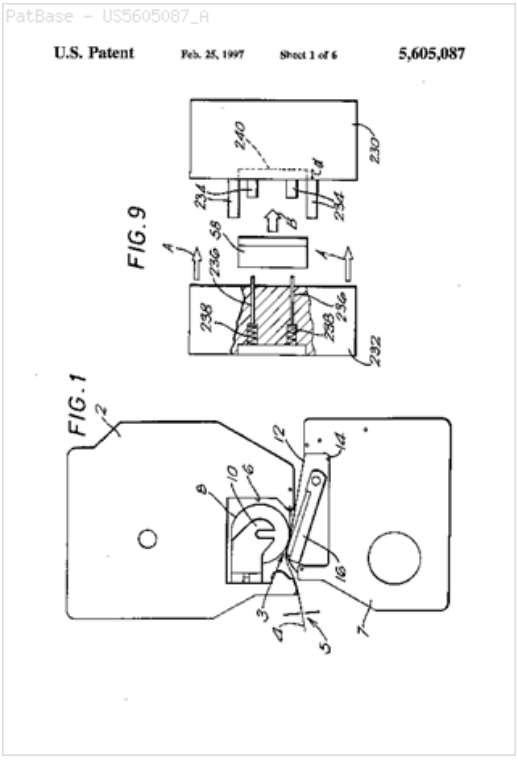
International (IPC 8-9): B23P15/40 B26D1/00 B26D3/08 B26D5/06 B26D7/24 B26D7/26 B41J11/70 B41J3/36 (Advanced/Invention); B23P15/40 B41J3/36 (Advanced/Non-invention)

International (IPC 1-7): B23P15/40 B26D1/00 B26D3/08 B26D5/00 B26D5/06 B29C33/12 B29C45/14 B41J11/70 B41J29/00 B41J3/36 B41J3/407 B65H35/06

CPC: Y10T156/1082 Y10T156/12 Y10T83/0333 Y10T83/0348 Y10T83/101 Y10T83/8694 B26D3/085 B26D1/0006 B26D7/24 B26D7/2614 B26D2001/002 B41J11/70 B41J11/703

European: B26D1/00C B26D3/08B B26D7/24 B26D7/26B B41J11/70 B41J11/70B L26D1/00C4

US: 156/268 156/510 264/273 264/277 264/278 400/621 83/526 83/69 83/879 83/881



Family:

Publication number	Publication date	Application number	Application date
AU199453154 A1	19940721	AU19940053154	19940112
AU199453155 A1	19940721	AU19940053155	19940112
AU666995 B2	19960229	AU19940053155	19940112
AU669405 B2	19960606	AU19940053154	19940112
DE0607026 T1	19950406	DE19940300194T	19940112
DE0607027 T1	19950406	DE19940300195T	19940112
DE69406556 D1	19971211	DE19946006556	19940112
DE69406556 T2	19980430	DE19946006556T	19940112
DE69412650 D1	19981001	DE19946012650	19940112
DE69412650 T2	19990114	DE19946012650T	19940112
EP0607026 A2	19940720	EP19940300194	19940112
EP0607026 A3	19950111	EP19940300194	19940112
EP0607026 B1	19971105	EP19940300194	19940112
EP0607027 A2	19940720	EP19940300195	19940112
EP0607027 A3	19941214	EP19940300195	19940112
EP0607027 B1	19980826	EP19940300195	19940112
GB9300579 A0	19930303	GB19930000579	19930113
JP3523314 B2	20040426	JP19940002182	19940113
JP6278089 A2	19941004	JP19940002152	19940113
JP7001254 A2	19950106	JP19940002182	19940113
US5605087 A	19970225	US19940178689	19940110
US5695705 A	19971209	US19960703841	19960827
US6279446 BA	20010828	US19970833755	19970409

Priority:

GB19930000579 19930113 US19940180242 19940111 US19960703841 19960827 US19970833755 19970409

Probable Assignee: DYMO

Assignee(s): (std): ESSELTE DYMO N V ; ESSELTE DYMO NV ; ESSELTE NV

Assignee(s): ESSELTE N V ST NIKLAAS BE ; ESSELTE N V ; ESSELTE DYMO N V SINT NIKLAAS BE ; ESSELTE DYMO NEAMLOZE VENNOOTSHAP ; DYMO ; ESSELTE ; ESSELTE DYMO INDUSTRIEPARK NOORD NV ; ESSELTE DAIMO NV

Inventor(s): (std): HALKET ANDREW RICHARD BUCHANAN ; HALKET ANDREW RICHARD ; CHIYAARUZU ROBAATO SHIMUZU ; DR CHARLES ROBERT SIMS ; SIMS CHARLES ROBERT DR ; SIMS CHARLES ROBERT ; MAIKERU ANDORIYUU BIIDOMAN ; MICHAEL ANDREW BEADMAN ; BEADMAN MICHAEL ANDREW ; BEADMAN MICHAEL A ; ANDREW RICHARD BUCHANAN HALKET ; ANDORIYUU RICHIYAADO BUKIYANAN

Inventor(s): ANDORIYUU RICHIYAADO BUKIYANAN HARUKETSUTO ; BEADMAN MICHAEL ANDREW ROYSTON HERTFORDSHIRE ; HALKET ANDREW RICHARD BUCHANAN CAMBRIDGE CB1 2PZ G ; SIMS CHARLES ROBERT ROYSTON HERTFORDSHIRE SG8 7SD ; SIMS CHARLES ROBERT ROYSTON HERTFORDSHIRE SG8 ; HALKET ANDREW RICHARD BUCHANAN CAMBRIDGE CB1... ; SIMS CHARLES ROBERT ROYSTON HERTFORDSHIRE SG8 7SD GB ; HALKET ANDREW RICHARD BUCHANAN CAMBRIDGE CB1 2PZ GB ; BEADMAN MICHAEL ANDREW ROYSTON HERTFORDSHIRE SG8 0 ; BEADMAN MICHAEL ANDREW ROYSTON HERTFORDSHIRE SG8 0LP GB

Agent(s): FB RICE; FB RICE PTY LTD; SHAMOTO ICHIO; MASUI CHUJI; KURITA TADAHIKO; KOBAYASHI

YASUSHI; ITOH SHIGERU

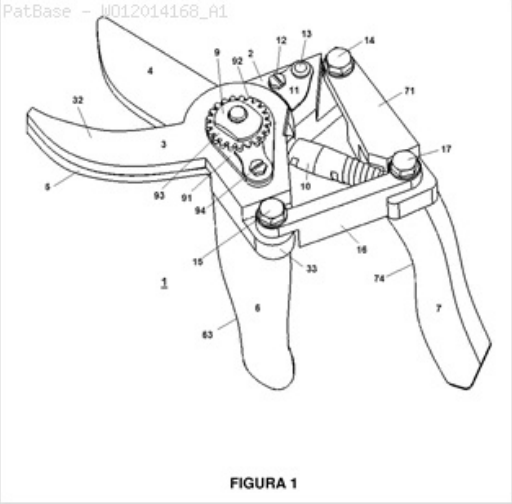
Designated states: DE FR GB IT

34) Family number: 50559106 (WO12014168A1)

Title: ERGONOMIC TOOL FOR CUTTING FLOWERS AND FRUIT

Abstract: The invention relates to an ergonomically designed tool for the intensive cutting of flowers or fruit, the structure of which enables it to be gripped with the fist, in which the handles are perpendicular or almost perpendicular to the cutting blades, minimizing the risk of injury at the upper ends; said handles lie in the longitudinal plane of the tool, one behind the other.

Classifications:
International (IPC 8-9): A01D34/00 A01G3/02 B26B13/16 (Advanced/Invention)
CPC: A01G3/02
European: A01G3/02



Family:

Publication number	Publication date	Application number	Application date
CO6360207 A1	20120120	CO20100093249	20100730
WO12014168 A1	20120202	WO2011IB53350	20110727

Priority:

CO20100093249 20100730

Probable Assignee: PONTIFICA UNIVERSIDAD JAVERIAN

Assignee(s): (std)**:** CORDOBA SANCHEZ JORGE ENRIQUE ; FAJARDO ROMERO JAVIER MAURICIO ; HILARION ALVARO ENRIQUE ; PONTIFICA UNIVERSIDAD JAVERIAN ; PONTIFICIA UNIVERSIDAD JAVERIANA ; QUINTANA LEONARDO AUGUSTO

Inventor(s): (std)**:** CORDOBA SANCHEZ JORGE ENRIQUE ; FAJARDO ROMERO JAVIER M ; FAJARDO ROMERO JAVIER MAURICIO ; HILARION ALVARO ENRIQUE ; QUINTANA LEONARDO AUGUSTO

Inventor(s): ALVARO ENRIQUE HILARION ; JAVIER M FAJARDO ROMERO ; JORGE ENRIQUE CORDOBA SANCHEZ ; LEONARDO AUGUSTO QUINTANA

Agent(s): SILVANA MARIA LOPEZ DIAZ; RODRIGUEZ D ALEMAN DILIA MARIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

35) Family number: 50559107 (US2013219722A)

Title: ERGONOMIC TOOL FOR CUTTING FLOWERS AND FRUITS

Abstract: The invention relates to an ergonomically designed tool for the intensive cutting of flowers and fruit, configured such that it can be gripped with the whole hand. According to the invention, the handles occupy a position in which they are perpendicular or almost perpendicular to the cutting blades, thereby minimizing the risk of injury to the upper limbs.

Classifications:
International (IPC 8-9): A01D34/00 A01G3/02 B26B13/16 B26B13/20 B26B13/26 (Advanced/Invention)
CPC: A01G3/02 B26B13/20 B26B13/26
European: A01G3/02
US: 30/173 30/188



Family:

Publication number	Publication date	Application number	Application date
CO6360206 A1	20120120	CO20100093246	20100730
DE112011102563 T5	20130508	DE201111102563T	20110727
US2013219722 AA	20130829	US20110813416	20110727
US9769989 BB	20170926	US20110813416	20110727
WO12014167 A2	20120202	WO2011IB53349	20110727
WO12014167 A3	20120628	WO2011IB53349	20110727

Priority:

CO20100093246 20100730 WO2011IB53349 20110727

Probable Assignee: PONTIFICIA UNIVERSIDAD JAVERIANA

Assignee(s): (std): CORDOBA SANCHEZ JORGE ENRIQUE ; FAJARDO ROMERO JAVIER MAURICIO ; HILARION ALVARO ENRIQUE ; PONTIFICA UNIVERSIDAD JAVERIAN ; PONTIFICIA UNIV JAVERIANA ; PONTIFICIA UNIVERSIDAD JAVERIANA ; QUINTANA LEONARDO AUGUSTO

Inventor(s): (std): CORDOBA SANCHEZ JORGE ENRIQUE ; HILARION ALVARO ENRIQUE ; QUINTANA LEONARDO AUGUSTO ; FAJARDO ROMERO JAVIER M ; FAJARDO ROMERO JAVIER MAURICIO

Inventor(s): JORGE ENRIQUE CORDOBA SANCHEZ ; ALVARO ENRIQUE HILARION ; JAVIER M FAJARDO ROMERO ; LEONARDO AUGUSTO QUINTANA

Agent(s): SILVANA MARIA LOPEZ DIAZ; MERCHANT AND GOULD PC; RODRIGUEZ D ALEMAN DILIA MARIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

36) Family number: 8078107 (DE3941957A1) © PatBase

Title: POWER DRIVEN CUTTING TOOL - HAS HOOD FITTED OVER CUTTING DISC. SWIVELABLE IN PERIPHERAL DIRECTION

Abstract: The tool for cutting a groove in masonry (2), or for cutting ceramic tiles, has a cutting disc (6) driven by a motor enclosed in a housing (3). The latter is supported on a swing arm (16), which has one end (15) pivoted to one end of a support table (1). The other end of the swing arm slides in a curved guide (18) fixed to the corresp. end of the table. The cutting disc is provided with a hood (22) which can be swung about the axis (10) of rotation of the disc. Thus one edge of the hood can be held close to the masonry (2) to prevent the spread of dust generated by the cutting tool. ADVANTAGE - Simple design with effective dust exhaust.

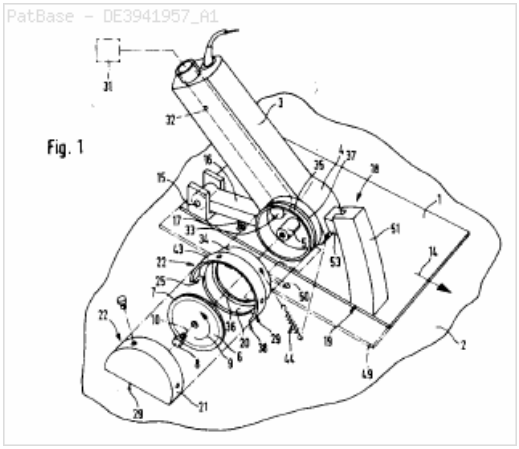
Classifications:

International (IPC 8-9): B23D59/00 B23Q11/00 B23Q11/06 B24B27/08 B26D7/22 B27G19/02 (Advanced/Invention); B23D59/00 B23Q11/00 B23Q11/06 B24B27/08 B26D7/00 B27G19/00 (Core/Invention)

International (IPC 1-7): B08B15/04 B24B27/06 B26D7/22 B28D1/22 B28D7/02

CPC: B26D7/22 B23D59/006 B23Q11/0046 B23Q11/06 B24B27/085 B27G19/02

European: B23D59/00C B23Q11/00F1 B23Q11/06 B24B27/08B B26D7/22 B27G19/02



Family:

Publication number	Publication date	Application number	Application date
DE3941957 A1	19910627	DE19893941957	19891220

Priority:

DE19893941957 19891220

Probable Assignee: FESTO KG

Assignee(s): (std): FESTO KG

Assignee(s): FESTO KG 7300 ESSLINGEN DE ; FESTO 7300 ESSLINGEN DE KG

Inventor(s): (std): ATTINGER KARL

Inventor(s): ATTINGER KARL 7311 HOLZMADEN DE

37) Family number: 32271112 (US2005215187A) © PatBase

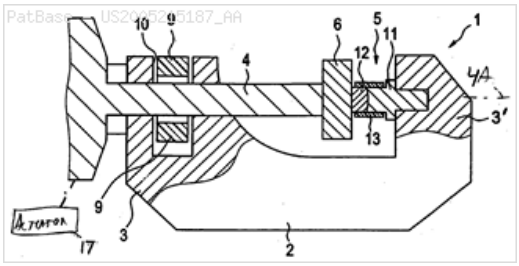
Title: CENTER CLAMP

Abstract: A center clamp used with a machining tool having an annular edge has a C-shaped body having an inner end inside the edge and an outer end outside the edge and spaced from it along a clamp axis. A push rod extends along the axis through the outer body end. A rotary joint centered on the axis has an inner part on the inner body end and an outer part rotatable on the inner part about the axis. An axial actuator relatively axially shifts the body and the push rod and thereby clamps a workpiece between an end face of the rod and the outer part of the joint. An angular actuator pivots the push rod about the axis and thereby, when the workpiece is clamped between the rod and the joint, pivots the workpiece about the axis.

Classifications:

International (IPC 8-9): B23Q3/06 B23Q3/08 B24B3/34 B24B41/06

B24B5/02 B24D7/18 B25B1/10 (Advanced/Invention);
B24B41/06 (Advanced/Non-invention)
International (IPC 1-7): B23Q3/06 B23Q3/08 B24B3/34 B24B41/06 B24B5/02 B24D7/18 B60R9/04
CPC: B24B3/343 B24B41/062
European: B24B3/34B B24B41/06B1
US: 269/249 269/274 269/275 269/45 451/364 451/365 451/365P 451/367 451/385



Family:

Publication number	Publication date	Application number	Application date
AT482053 E	20101015	AT20050006725T	20050329
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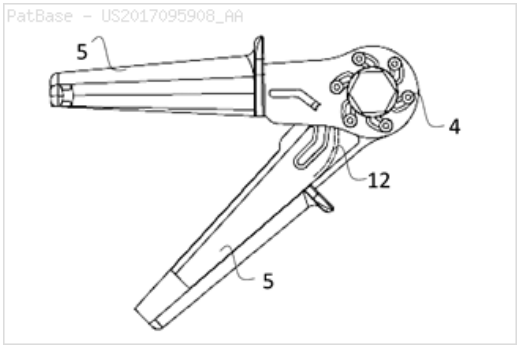
Priority:
EP20040007178 20040325 EP20050006725 20050329

Probable Assignee: WENDT GMBH
Assignee(s): (std): WENDT GMBH
Assignee(s): WENDT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG
Inventor(s): (std): LAMERS NORBERT ; NORBERT LAMERS
Agent(s): SPRUSON AND FERGUSON; DR STARK AND PARTNER; THE FIRM OF KARL F ROSS; FIRM OF KARL F ROSS; ANDREW
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

38) Family number: 65364117 (US2017095908A)

Title: DIAPHRAGM PLIERS

Abstract: An apparatus, an adjustable tool with variable diameter aimed at tightening and twisting nuts, bolts or other prismatic objects, with polygonal section or circular section outlines suitable for performing several actions around different kinds of objects, working on such objects through two different ways to move a variable number of teeth, which, while working, close like a diaphragm around the sides of such objects, perfectly adapting to their diameter and their section or capacity.
Classifications:
International (IPC 8-9): B25B13/12 B25B13/14 B25B13/18 B25B13/44 B25B7/04 B25B7/12 B25B7/14 B25B7/22 (Advanced/Invention)
CPC: B25B7/04 B25B7/22 B25B7/12 B25B13/44 B25B13/14 B25B13/18 B25B7/14
US: 7/129



Family:

Publication number	Publication date	Application number	Application date
DE602016010855 D1	20190404	DE201660010855T	20161005
EP3153278 A1	20170412	EP20160020368	20161005
EP3153278 B1	20190313	EP20160020368	20161005
ITUB20154075 A1	20170406	IT2015UB04075	20151006
US2017095908 AA	20170406	US20160286147	20161005

Priority:
IT201510000058737 20151006 IT2015UB04075 20151006 EP20160020368 20161005

Probable Assignee: PELLEOSSA SRL
Assignee(s): (std): PELLEOSSA S R L ; PELLEOSSA SRL
Inventor(s): (std): ELMI PAOLO
Agent(s): PAPA ELISABETTA

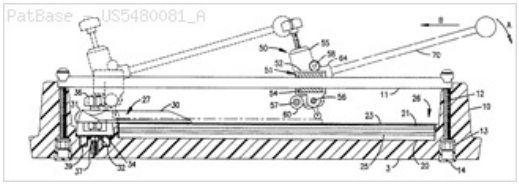
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

39) Family number: 11031122 (US5480081A)

Title: SCORING AND BREAKING DEVICE WITH A CARRYING CASE THEREFOR

Abstract: A tile cutting apparatus includes a unit base for holding a tile and guide rods above and running parallel to the base. The guide rods carry a scoring/breaking assembly along a scoring and breaking path. The base includes, on its upper surface, a breaker spline inserted therein and extending along the scoring path. The base's upper surface also includes resilient pads supporting stainless steel rest plates on both sides of the breaker spline. The spline is oriented at a slight angle with respect to the surface of the rest plates to facilitate breaking. The scoring/breaking assembly includes a spring for applying constant pressure to a cutting wheel throughout the scoring operation. The scoring/breaking assembly is constructed such that a single handle allows the user to engage and disengage the cutting wheel, score the tile while maintaining a constant scoring pressure and break the tile. The apparatus includes a molded cover and base that minimize excess assembly and parts.

Classifications:
International (IPC 8-9): B26D1/04 B28B1/24 B28D1/22 (Advanced/Invention); B26D1/01 B28D1/22 (Core/Invention)
International (IPC 1-7): B26D1/04 B28B1/24 B28D1/22 B28D1/24
CPC: Y10T83/0385 Y10T225/325 B28D1/225
European: B28D1/22D
US: 125/23.02 225/96.5 83/886



Family:

Publication number	Publication date	Application number	Application date
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CA2172135 AA	19960319	CA19942172135	19940920
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EP0722382 A1	19960724	EP19940931756	19940920
EP0722382 A4	19970102	EP19940931756	19940920
JP9502938 T2	19970325	JP19950509889T	19940920
US5480081 A	19960102	US19930126355	19930924
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Priority:
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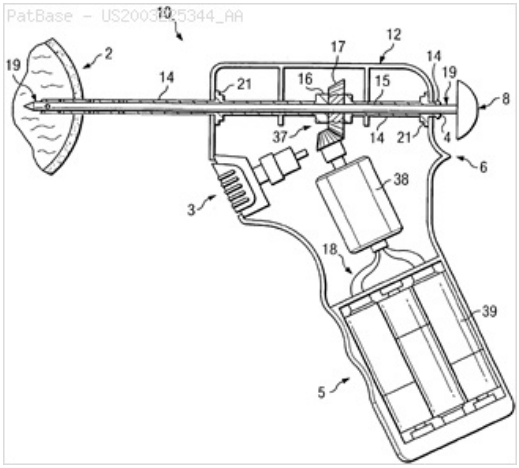
Probable Assignee: ELECTROLUX AB
Assignee(s): (std): DIAMANT BOART INC
Assignee(s): ELECTROLUX AB ; ELECTROLUX PROFESSIONAL OUTDOOR PRODUCTS INC ; TARGET PRODUCTS INC ; WILSON KEVIN R ; BABKES MITCHELL H
Inventor(s): (std): BABKES MITCHELL H ; WILSON KEVIN R
Inventor(s): KEVIN R WILSON ; MITCHELL H BABKES
Agent(s): SMART AND BIGGAR; ERNESTO CAVELIER
Designated states: AT BE BR CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

40) Family number: 32099125 (US2003225344A)

Title: APPARATUS AND METHOD TO ACCESS THE BONE MARROW FOR ONCOLOGY AND STEM CELL APPLICATIONS

Abstract: An apparatus for removing portions of bone marrow from a bone is provided. The apparatus includes a housing and a hollow drive shaft operable to engage a gear assembly. The hollow drive shaft includes a first end operable to penetrate the bone and a second end operable to allow retrieval of portions of bone and bone marrow. The apparatus also includes a removable trocar. The removable trocar includes an inner channel operable to convey portions of bone and bone marrow. The gear assembly is able to engage and rotate the hollow drive shaft. A motor operable to drive the hollow drive shaft into the bone marrow by rotation of the hollow drive shaft and a power supply and associated circuitry operable to power the motor are also included.

Classifications:
International (IPC 8-9): A61B A61B1/00 A61B10/00 A61B10/02 A61B17/00 A61B17/10 A61B17/14 A61B17/16 A61B17/32 A61B17/3205 A61B17/34 A61B17/56 A61B17/58 A61B17/72 A61B17/88 A61B19/00 A61B19/02 A61B19/08 A61B19/10 A61B46/00 A61B46/10 A61B46/23 A61B5/103 A61B5/153 A61B50/20 A61B50/30 A61B50/31 A61B50/33 A61B90/00 A61F2/46 A61F5/00 A61M A61M1/00 A61M1/06 A61M25/00 A61M25/06 A61M31/00 A61M39/10 A61M5/00 A61M5/14 A61M5/145 A61M5/158 A61M5/168 A61M5/20 A61M5/24 A61M5/31 A61M5/315 A61M5/32 A61M5/34 A61M5/46 A61N1/30 B23B45/00 B23G1/46 B23P17/04 B25B23/16 B25G1/00 B65D33/00 F41A17/46 F41A17/50 F41A17/52 F41A17/54 (Advanced/Invention);
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A61B (Subclass/Invention)
International (IPC 1-7): A61B10/00 A61B17/00 A61B17/16 A61B17/24 A61B17/32 A61B17/34 A61B17/56 A61B17/58 A61B19/00 A61M1/00 A61M25/06 A61M31/00 A61M37/00 A61M5/00 A61M5/00 A61M5/14 A61M5/20 A61M5/46



CPC: A61B17/16 A61B17/8875 A61B17/1622 A61B17/1635 A61B2210/02 A61B17/0642 A61B17/068 A61B2017/3405 A61M1/008 A61B2017/0649 A61B10/0275 A61B2010/0225 A61B17/1613 A61B2017/3492 A61M2005/1588 A61M2210/08 A61B2090/036 A61B17/1691 A61B2010/0208 A61B2017/320024 A61B2217/005 A61M5/46 A61B17/3403 A61B2017/3413 A61M5/2033 A61M5/24 A61M5/31511 A61M5/3291 A61M5/34 A61M2005/3103 A61M2005/3289 A61B17/1664 A61M1/0086 A61B2017/00969 A61B19/0256 A61B19/0264 A61B2503/42 A61B19/201 A61B19/34 A61B2019/306 A61B2019/4868 A61B2019/0278 A61B2019/304 A61B2017/348 A61B2017/925 A61B17/1628 A61B17/1624 A61M2005/1581 A61M2005/1585 A61M2210/02 A61B17/3423 A61B17/3496 A61M5/1454 F41A17/46 F41A17/52 F41A17/54 A61B17/1637 A61B2017/00398 A61B2017/00362 A61B2017/00685 A61B90/70 A61B17/32053 A61B2010/0258 A61M2250/00 A61B2017/00022 A61M2205/18 A61M2205/3344 A61M2210/086 A61M2230/005 A61M2230/20 A61M2230/50 A61B17/3476 A61B17/32002 A61M5/16836 A61M2205/587 A61M5/158 A61B90/11 A61B90/30 A61B50/20 A61B50/31 A61B17/162 A61B2017/0046 A61B2017/00477 A61B2017/320064 B23B45/00 B25B23/0035 B25B23/12 B25D2250/141 A61B10/025 A61B17/34 A61B34/30 A61B90/25 A61B17/1671 A61B17/3472 A61B2090/034 A61B2090/0813 A61B10/0283 A61B2017/00734 Y10T408/94 A61B50/3001 A61B46/00 A61B46/10 A61B46/23 A61B50/30 A61B50/33 A61B90/40 A61B2050/0065 A61B2050/3008 A61B2050/314 A61B2090/062 Y10T29/49826
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Family:

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Designated states:	AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

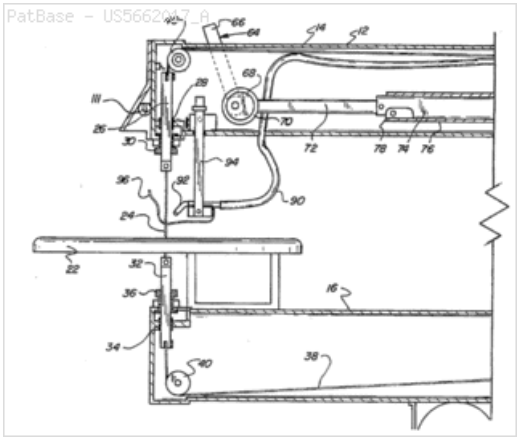
41) Family number: 13203127 (US5662017A)

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Title: SCROLL SAW

Abstract: A scroll saw for cutting complex contours in a work piece with minimal vibration. The inventive device includes a substantially U-shaped main body having horizontally extending legs between which a saw blade is reciprocally mounted. A cogged belt extends over a plurality of guide pulleys and terminates at opposed ends of the saw blade. A drive pulley is oscillated by an electric motor and engages the belt to effect reciprocation of the saw blade. An air pump is also mechanically powered by the drive pulley for removing dust particles from the work area. Also included is a vibration reduction system and further a saw lubrication system.

Classifications:
International (IPC 8-9): B23D49/00 B23D59/00 B23D59/04 (Advanced/Invention); B23D49/00 B23D59/00 (Core/Invention)
International (IPC 1-7): B26D7/18 B27B19/10
CPC: B23D49/007 B23D59/006 B23D59/04 Y10T83/263 Y10T83/293 Y10T83/705 Y10T83/7239 Y10T83/828
European: B23D49/00J B23D59/00C B23D59/04
US: 83/169 83/171 83/520 83/783 83/816



Family:

Publication number	Publication date	Application number	Application date
US5662017 A	19970902	US19960671610	19960628

Priority:
US19940314319 19940928 US19960671610 19960628

Probable Assignee:	MELLON ERNESTO CLAUDE
Assignee(s):	MELLON ERNESTO CLAUDE
Inventor(s): (std):	MELLON ERNESTO CLAUDE

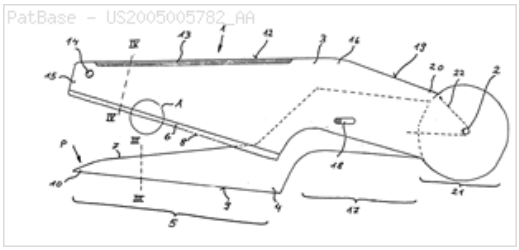
42) Family number: 17831132 (US2005005782A)

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Title: DEVICE FOR CUTTING PASTRY

Abstract: The invention relates to a device for cutting pastry, with limbs (3, 4), connected to each other by means of a hinge point and a large opening angle between the limbs (3, 4). According to the invention the pastry should also be cut with little application of force, whereby each limb (3, 4) has a cutting region (5) with an upper blade (6) on the upper limb (3) and a counter blade (7) on a lower limb (4) and a handle (17) for guiding and operating the device (1, 1a). The limbs (3, 4) are angled between the cutting region (5) and the handle (17), whereby the hinge point (2) is arranged on the end (20) of the handle (17) facing away from the cutting region (5).

Classifications:
International (IPC 8-9): A21C15/04 B26B13/00 B26B13/06 (Advanced/Invention); A21C15/00 B26B13/00 (Core/Invention)
International (IPC 1-7): A21C15/04 A23N1/00 B26B13/06
CPC: A21C15/04 B26B13/06
European: A21C15/04 B26B13/06
US: 30/114 30/142 30/146 301/460 99/537



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE20012016648U 20011010 DE20021094644 20021002 WO2002DE03735 20021002 DE20025003222 20021002

Probable Assignee: KRUPKA LORETTA

Assignee(s): (std)**:** GENGNAGEL KRUPKA JUERGEN ; GENGNAGEL KRUPKA JURGEN ; KOCK THOMAS ; KRUPKA JUERGEN ; KRUPKA LORETTA

Assignee(s): KRUPA LORETTA

Inventor(s): (std)**:** GENGNAGEL KRUPKA JUERGEN ; GENGNAGEL KRUPKA JURGEN ; KOCK THOMAS ; KRUPA LORETTA ; KRUPKA JUERGEN ; KRUPKA LORETTA

Agent(s): MARKS AND CLERK; FIRM OF KARL F ROSS; HERBERT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

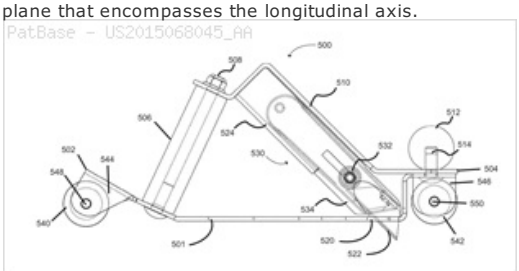
43) Family number: 58688133 (US2015068045A)

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Title: PLANAR CUTTING TOOL

Abstract: A planar cutting tool has a body comprising a first end, a second end and substantially flat portion that extends between the first and second portions. The substantially flat portion has a substantially flat top surface and a substantially flat bottom surface and a longitudinal axis extending between the body first and second ends. A first handle is coupled to the body proximate the front end and a second handle is coupled to the body proximate the body back end. A cutting assembly is operatively connected to the body and comprises: (i) a cutter having a cutting edge and a cutter holder for securing the cutter to the body in a position where the cutting edge is parallel to a plane that encompasses the longitudinal axis.

Classifications:
International (IPC 8-9): B26B29/06 B26B5/00 (Advanced/Invention)
CPC: B26B29/06 B26B5/005
US: 30/293 30/294



Family:

Publication number	Publication date	Application number	Application date
US2015068045 AA	20150312	US20140484011	20140911

Priority:

US20130876247P 20130911 US20140484011 20140911

Probable Assignee: ALLEN INNOVATIVE CONCEPTS LLC

Assignee(s): (std)**:** ALLEN INNOVATIVE CONCEPTS LLC

Inventor(s): (std)**:** ALLEN TIMOTHY E

44) Family number: 31478139 (US2004069109A)

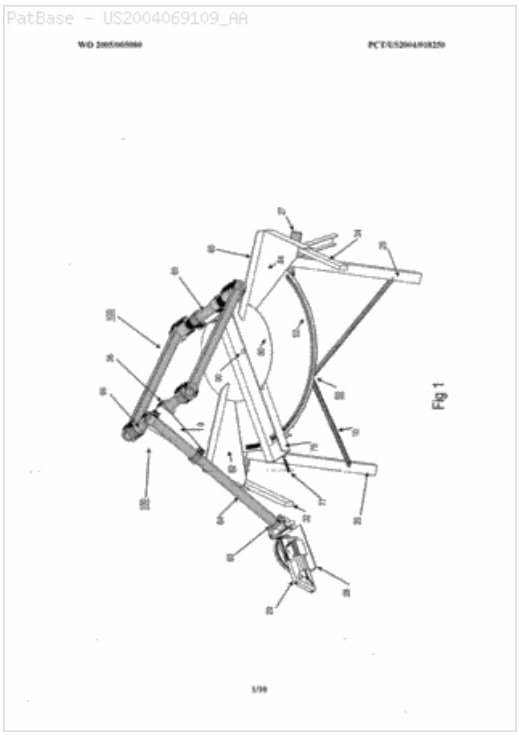
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Title: FREE SWINGING PORTABLE CUTTING WORK STATION

Abstract: An improved cutting station having a multi function capability for cutting a wide variety of sheet materials including plywood 4 foot by 8 foot sheets, metal roofing, bulky beams, girders and the like, placed on a semicircular table having centrally mounted thereon a turntable attached to an angularly adjustable cutting guide; and, having versatility in replacing various types of cutting tools on a tool holder supported at a free swinging end of a triangular truss hinged at the apex, and at one end of the cutting guide. A novel slotted collar is used repeatedly throughout the cutting station to reduce the

production cost and improve versatility of the apparatus. Equipping the free swinging end of one side of the truss, with a user-selected electrically operated handheld cutting tool, allows easy positioning of the cutting tool for angular, beveled, radial, and plunge cuts.

Classifications:
International (IPC 8-9): B27B5/20 (Advanced/Invention)
International (IPC 1-7): B26D5/08 B27B5/20
CPC: Y10T83/8773 B27B5/208
European: B27B5/20G
US: 83/581 83/581P



Family:

Publication number	Publication date	Application number	Application date
US2004069109 AA	20040415	US20030458837	20030612
WO05005080 A2	20050120	WO2004US18250	20040609
WO05005080 A3	20050728	WO2004US18250	20040609

Priority:
US20020417940P 20021011 US20030458837 20030612

Probable Assignee: SPRAGUE DONALD G

Assignee(s): (std)**:** SPRAGUE DONALD G

Inventor(s): (std)**:** SPRAGUE DONALD G

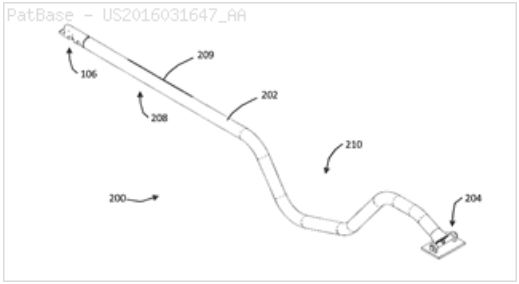
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

45) Family number: 61594144 (US2016031647A)

Title: TIRE LIFT AND TIPPER

Abstract: A tire lift and tipper includes a hook end with a plurality of notches that are each configured for different wheel manipulations and/or for different types of wheels. Each of the plurality of notches is configured to tip wheels into an upright position without deflating or breaking a bead of a tire of the wheel. The device further includes a u-shaped bend configured to support a wheel during a wheel loading manipulation, and a pad end rotationally mounted to a body of the device. During the loading manipulation, the pad end remains stationary and acts as a fulcrum and the body with the u-shaped bend acts as a lever arm. The device is passed through a center of the wheel, and the lever arm is raised or lowered in order to raise or lower the wheel to or from a raised surface, respectively.

Classifications:
International (IPC 8-9): B25H5/00 B60C25/02 B65G7/08 B65G7/12 (Advanced/Invention)
CPC: B65G7/08 B65G2201/0273 B25H5/00 B65G7/12
US: 1/1 294/17



Family:

Publication number	Publication date	Application number	Application date
US2016031647 AA	20160204	US20140449836	20140801
US9394108 BB	20160719	US20140449836	20140801

Priority:
US20140449836 20140801

Probable Assignee: BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC

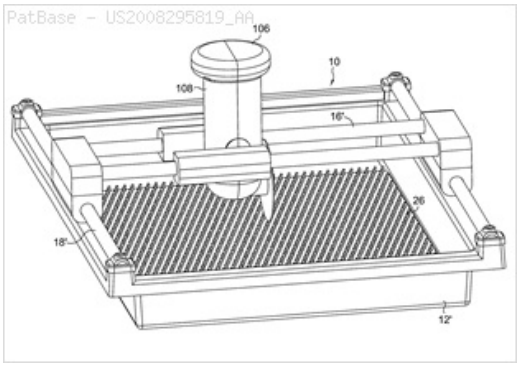
Assignee(s): (std): BOSCH AUTOMOTIVE SERVICE SOLUTIONS LLC ; BOSCH GMBH ROBERT
Assignee(s): ROBERT BOSCH GMBH
Inventor(s): (std): JENSEN ROBERT ; KOCHIE ROBERT ; WHITE MICHAEL
Agent(s): MAGINOT MOORE AND BECK LLP

46) Family number: 42117148 (US2008295819A)

Title: TILE SAW WITH LASER GUIDE

Abstract: A tile cutting machine includes a tub for receiving water and a tile to be cut therein. A cutting head assembly having a motor driven blade is positioned above a tile supporting surface located in the tub and is movable with respect thereto. A laser projects a line of light from the cutting head assembly down onto the tile supporting surface to provide a visual representation of a cutting path of the blade. A scale permits measurement of a tile to be cut. The laser may be used with the scale to allow a user to quickly determine cutting widths without the need to manually mark the object to be cut. A light source, such as an LED, may be incorporated in the cutting head to illuminate an interior of the tub during operation of the tile cutting machine.

Classifications:
International (IPC 8-9): B23D45/02 B23D47/02 B23D59/00 B23Q3/00 B24B49/00 B24B7/00 B25D1/04 B26D5/00 B26D7/08 B26D7/20 B26D7/26 B26D7/27 B28D1/02 B28D1/04 B28D1/22 B28D5/04 B28D7/02 B28D7/04 F16C29/02
F16C29/04 (Advanced/Invention);
B26D7/20 B26D7/26 (Advanced/Non-invention);
B23D45/00 B23D47/00 B23D59/00 B26D5/00 B26D7/00 B26D7/08 B28D1/02 B28D1/22 B28D5/04 B28D7/00 F16C29/00
F16C29/04 (Core/Invention)
International (IPC 1-7): B28D1/02 B28D1/04
CPC: B26D7/20 B23D59/003 B26D7/02 B26D7/088 B26F1/3826 F16C29/045 B23D47/02 B23D59/001 B23D59/002 B27B27/08 B28D1/043 B28D7/04 F16C2322/50
European: B23D47/02 B23D59/00B B23D59/00B1A B27B27/08 B28D1/04C B28D7/04
US: 125/13.01 125/13.010P 125/14 125/14P 125/15 125/35 125/38 451/127 451/160 451/273 451/273S 451/41 451/41S 451/8



Family:

Publication number	Publication date	Application number	Application date
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AU2008200816 AA	20081218	AU20080200816	20080221
AU2008200817 AA	20081218	AU20080200817	20080221
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CA2620698 AA	20081204	CA20082620698	20080208
CA2620699 AA	20081204	CA20082620699	20080208
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CN101318355 A	20081210	CN200810094816	20080428
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EP2000240 A2	20081210	EP20080101400	20080208
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NZ565914 A	20090828	NZ20080565914	20080213
NZ566215 A	20100129	NZ20080566215	20080226
NZ566216 A	20080731	NZ20080566216	20080226
NZ566217 A	20080926	NZ20080566217	20080226
NZ568590 A	20081224	NZ20080568590	20080226
US2008295819 AA	20081204	US20070843253	20070822
US2008295820 AA	20081204	US20070843288	20070822
US2008295821 AA	20081204	US20070843233	20070822
US2008295822 AA	20081204	US20070843269	20070822
US2011277740 AA	20111117	US20110113614	20110523
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US7810482 BB	20101012	US20070843233	20070822
US7810483 BB	20101012	US20070843269	20070822
US7946906 BB	20110524	US20070843253	20070822
US8365714 BB	20130205	US20110113614	20110523

Priority:
US20070941941P 20070604 US20070843253 20070822 US20070843288 20070822

US20070843233 20070822 US20070843269 20070822 CA20082619376 20080205
CA20082620698 20080208 CA20082620700 20080208 CA20082620699 20080208
EP20080101401 20080208 EP20150165651 20080208 EP20150165654 20080208
US20110113614 20110523

Probable Assignee: BLACK AND DECKER INC

Assignee(s): (std): BLACK AND DECKER INC ; CANNALIATO MICHAEL FREDERICK ; COLEMAN MICAH ALAN ; GIFFORD ROBERT H ; KUEHNE BRENT AUSTIN ; MCROBERTS JASON CARL ; WHITEHEAD JEFF ; MATTUCCI MARCO ALESSANDRO ; VAN WAMBEKE WESTON JOHN

Assignee(s): MILLIGAN MICHAEL ANDREW ; TURNER TERRY L ; BLACK AND DECKER INC NEWARK ; CAMPBELL DAVID CHARLES

Inventor(s): (std): MATTUCCI MARCO ALESSANDRO ; GIFFORD ROBERT H ; CANNALIATO MICHAEL FREDERICK ; MCROBERTS JASON CARL ; COLEMAN MICAH ALAN ; WHITEHEAD JEFF ; VAN WAMBEKE WESTON JOHN ; KUEHNE BRENT AUSTIN ; MCROBERTS JASON ; CAMPBELL DAVID CHARLES ; TURNER TERRY L ; KUEHNE BRENT A ; CANNALIATO MICHAEL ; COLEMAN MICAH A ; MILLIGAN MICHAEL A ; MCROBERTS JASON C ; CANNALIATO MICHAEL F ; VAN WAMBEKE WESTON J ; MILLIGAN MICHAEL ANDREW ; WAMBEKE WESTON JOHN VAN ; JASON MCROBERTS ; JEFF WHITEHEAD ; ALESSANDRO MATTUCCI MARCO ; MICHAEL CANNALIATO ; CHARLES CAMPBELL DAVID ; TUNER TERRY L

Inventor(s): WESTON JOHN VAN WAMBEKE ; GIFFORD ROBERT H NEW FREEDOM ; MCROBERTS JASON RED LION ; KUEHNE BRENT A RED LION ; COLEMAN MICAH A BALTIMORE ; CANNALIATO MICHAEL BEL AIR ; TURNER TERRY L TOWSON ; MILLIGAN MICHAEL A GANANOQUE ; DAVID CHARLES CAMPBELL ; ROBERT H GIFFORD ; MARCO ALESSANDRO MATTUCCI ; MICAH ALAN COLEMAN ; JASON CARL MCROBERTS ; MICHAEL ANDREW MILLIGAN ; MICHAEL FREDERICK CANNALIATO ; BRENT AUSTIN KUEHNE ; TERRY L TURNER ; TERRY L TUNER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BELL IAN STEPHEN ET AL; SBD IPADMIN; BELL IAN STEPHEN; SHOOK HARDY AND BACON LLP INTELLECTUAL PROPERTY DEPARTMENT; SHOOK HARDY AND BACON LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

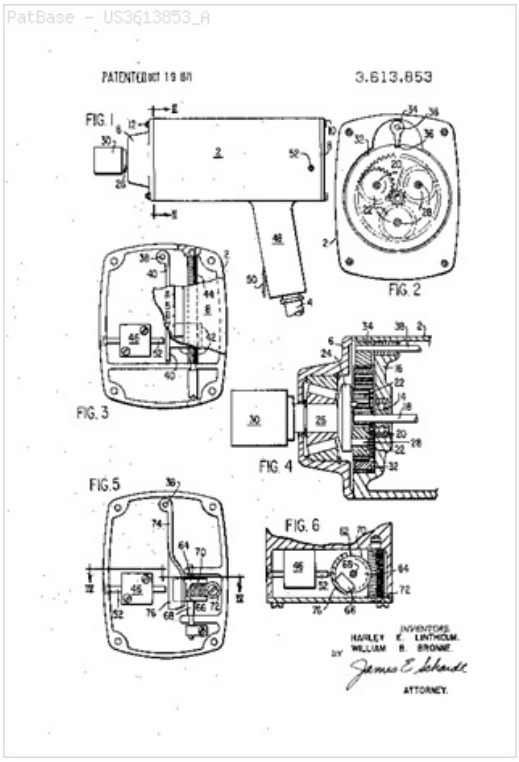
47) Family number: 166150 (US3613853A)

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Title: ROTARY SHAFT TORQUE-LIMITING DEVICE

Abstract: 1287162 Tube expander; power wrenches CARRIER CORP 25 March 1970 [2 Sept 1969] 14551/70 Headings B3J and B3N [Also in Division F2] The torque limiting drive to a power wrench, tube expander or drill mounted on a coupling member 30, includes a three element planetary gear set in which the sun 20 is driven by a pneumatic motor to drive the planets 22 on a carrier 24 connected to member 30, the reaction being taken by the ring gear 32 held by a lever 34 on a shaft 38 which is held against rotation by magnetic means until the reactive force exceeds a predetermined value to overcome the magnetic force to allow the ring gear to revolve and stop the torque transmission. The shaft 38 carries a lever (40), Fig. 3 (not shown), at its opposite end, the lever being normally held by a permanent magnet (42) until the torque exceeds the predetermined value when the lever (40) moves with a snap action to close a manually reset valve (46) to cut-off the compressed air from the driving motor. To vary the predetermined torque value, the magnet (42) may be adjustable along lever (40) to vary the effective lever arm or, Fig. 6 (not shown), the magnet may be turnable to vary its area of contact with the lever (40). A usual trigger (50), Fig. 1 (not shown), operates an on/off valve in series with the valve (46) which is reset by a pin (52) projecting from the tool housing.

Classifications:
International (IPC 8-9): B23Q11/04 B23Q5/26 B23Q5/58 B25B23/14 B25B23/145 F16H35/10 G05G15/08 (Advanced/Invention)
International (IPC 1-7): B25B21/00 B25B23/14 F16D43/20 F16D7/00 F16H1/00 F16H35/10 F16H57/10 G05G15/08 H01H3/30
CPC: B23Q11/04 B25B23/145 G05G15/08
European: B23Q11/04 B25B23/145 G05G15/08
US: 173/181 192/150 475/153



Family:

Publication number	Publication date	Application number	Application date
BE755635 A	19710215		00000000
BE755635 A1	19710215		19700902
CH505428 A	19710331	CH19700005980	19700422
DE2033227 A1	19710408	DE19702033227	19700704
DE2033227 C3	19730405	DE19702033227	19700704
FR2060577 A5	19710618	FR19700028006	19700729

GB1287162 A	19720831	GB19700014551	19700325
JP49043305 B4	19741120	JP19700036752	19700428
NL148166 B	19751215	NL19700007473	19700522
NL7007473 A	19710304	NL19700007473	19700522
US3613853 A	19711019	US19690854670	19690902

Priority:

US19690854670 19690902

Probable Assignee: CARRIER CORP

Assignee(s): (std)**:** CARRIER CORP

Assignee(s): CARRIER CORP CARRIER PARKWAY SYRACUSE ETAT DE NEW ; CARRIER CORP CARRIER PARKWAY SYRACUSE ETAT DE NEW YORK 13201 E U A ; CARRIER SYRACUSE NEW YORK VER ST V AM CORP ; ELLIOTT TURBOMACHINERY CO INC ; FIRST NATIONAL BANK OF CHICAGO ONE FIRST NATIONAL ; FIRST NATIONAL BANK OF CHICAGO

Inventor(s): (std)**:** WILLIAM BRUCE BRONNE ; LINTHICUM HARLEY ELTON ; LINTHICUM HARLEY E ; HARLEY ELTON LINTHICUM ; BRONNE WILLIAM BRUCE ; BRONNE WILLIAM B

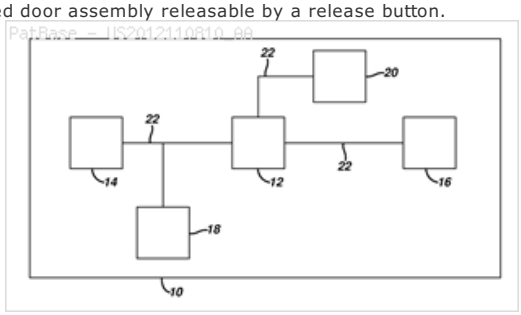
Inventor(s): HARLEY E LINTHICUM ; WILLIAM B BRONNE ; ELTON LINTHICUM HARLEY ; BRUCE BRONNE WILLIAM

48) Family number: 51065154 (US2012110810A)

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Title: MEDICAL DEVICE WITH FEATURE FOR STERILE ACCEPTANCE OF NON-STERILE REUSABLE COMPONENT

Abstract: An apparatus maintains the sterility of a medical device while providing for the insertion of an insertable component into the medical device. The apparatus includes a medical device having a housing sized to contain the insertable component, an active feature, a cap, and a hinge member. A container encases the medical device within a device recess, a cap recess, and a container cover. The insertable component may be inserted into the housing while limiting potential contact with the exterior of the medical device. An alternative assembly comprises an insertion assembly having a handle and the insertable component detachably attached thereto. The medical device comprises a housing, an active feature, and a flexible member. An insertion tube is insertable within the flexible member to limit contact when the insertable component is inserted into the housing. Yet another configuration includes a resiliently hinged door assembly releasable by a release button.



Classifications:

International (IPC 8-9)**:** A61B17/00 A61B17/064 A61B17/068 A61B17/12 A61B17/28 A61B17/285 A61B17/29 A61B17/295 A61B17/32 A61B17/94 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B19/00 A61B19/02 A61B34/00 A61B34/30 A61B46/10 A61B50/30 A61B8/00 A61B8/14 A61B90/00 A61B90/40 A61F9/02 A61N7/00 B23B37/00 B23Q3/00 B23Q5/00 B25B27/14 B65D83/10 B65D85/00 B65D85/86 G01R31/00 G02B27/00 G02B27/01 G06Q30/04 G06Q30/06 G06Q50/22 G07C1/00 G08B21/00 H01M10/46 H01M10/48 H01M10/50 H01M2/10 H01M2/26 H02J17/00 H02J7/00 H02J7/02 H04R31/00 (Advanced/Invention);
A61B17/00 A61B17/064 A61B17/28 A61B17/285 A61B17/29 A61B18/00 A61B18/04 A61B18/12 A61B19/00 A61B34/00 A61B34/30 A61B90/00 A61B90/40 G02B27/00 H01M2/10 H01M2/26 H02J7/00 (Advanced/Non-invention)

CPC: G02B2027/011 G02B2027/0178 H02J7/0063 H02J2007/0067 A61B18/00 A61B18/04 A61B18/12 A61B18/1233 A61B18/14 A61B2017/0046 A61B2017/293 A61B2017/2931 A61B2018/00791 H02J7/0045 A61B17/28 A61B17/295 A61B17/32 A61B2017/00039 A61B2017/00084 A61B2017/00119 A61B2017/00212 A61B2018/00642 A61B2018/00773 Y10T29/49005 Y10T29/49895 Y10T29/53913 A61B17/320068 A61B2018/0019 A61B17/064 A61B2017/00482 A61B17/2812 A61B2090/0814 A61B19/38 A61B19/56 A61B2019/4815 A61B2019/4868 A61B2019/4873 A61B46/10 A61B90/08 H02J7/025 H01M2220/30 A61B90/40 A61B2018/00988 H01M2/10 H01M2/26 A61B34/30 A61B34/76 A61B2090/064 H01M2/1016 H01M10/48 H02J7/0047 H02J7/0044 H02J2007/005 A61B34/25 H01M10/46 A61B18/1206 A61B2017/0084 A61B2018/00589 A61B2018/00595 A61B2018/00601 A61B2018/00607 A61N7/00 A61B18/1442 A61B17/00234 A61B17/285 A61B17/320092 A61B18/1445 A61B2017/00115 A61B2017/00398 A61B2017/00473 A61B2017/00477 A61B2017/00734 A61B2017/291 A61B2017/2929 A61B2017/2933 A61B2017/294 A61B2018/00178 A61B2018/1226 A61B2018/1412 A61B2018/1455 A61B2090/0803 A61B2090/0813 G16H20/40 G16H40/63

European: A61B17/00E A61B17/32U A61B17/32U8 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/14F A61B18/14F2 H02J7/00E2 H02J7/00K K61B17/00C1E K61B17/00C1T K61B17/00C2 K61B17/00C2A K61B17/00C8 K61B17/00E K61B17/00F4 K61B17/00H K61B17/00H6 K61B17/00K K61B17/00K2 K61B17/00Q12 K61B17/064 K61B17/285 K61B17/29H2 K61B17/29J2R K61B17/29J2R2 K61B17/29J4 K61B17/29J6C K61B17/29J6L2 K61B17/32U8 K61B18/00B10E K61B18/00H12B K61B18/00T K61B18/12G5 K61B18/12G6 K61B18/14C4 K61B18/14F2 K61B18/14F6A K61B19/22B K61B19/22N K61B19/38 K61B19/46H K61B19/48D K61B19/48J K61B19/48L S02B27/01A2 S02B27/01C3 T02J7/00K2

US: 1/1 173/46 173/46P 2/431 2/431S 206/370 206/723 206/723S 29/271 29/271P 29/271S 29/464 29/464P 29/594 29/594S 320/107 320/107P 320/107S 320/108 320/108P 320/113 320/137 320/137S 340/540 340/540S 340/635 340/635S 340/636.1 340/636.100S 429/120 429/120P 429/121 429/121P 601/2 601/2P 606/1 606/169 606/169P 606/169S 606/1P 606/1S 606/27 606/32 606/33 606/33P 606/33S 606/34 606/34S 606/41 606/41P 606/41S 606/45 606/45P 606/51 606/52

Family:

Publication number	Publication date	Application number	Application date
AU2011323174 AA	20130530	AU20110323174	20111104
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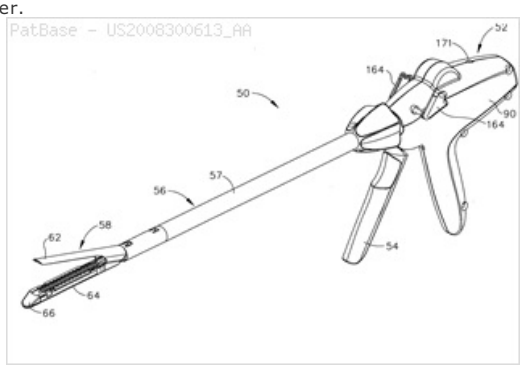
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Title: SURGICAL INSTRUMENT HAVING A MULTIPLE RATE DIRECTIONAL SWITCHING MECHANISM

Abstract: A surgical instrument including a drive mechanism configured to advance a staple driver and/or cutting member at a first rate and retract the staple driver and/or cutting member at a different rate. In at least one embodiment, the rate at which the driver and cutting member is advanced and/or retracted is the distance that the driver and/or cutting member is translated per actuation of a trigger, for example. In various embodiments, the cutting member can be retracted at a faster rate as compared to the rate in which it is advanced. In such embodiments, the surgical instrument can, owing to the slower advancing rate, provide a greater torque or advancing force to the cutting member while, owing to the faster retracting rate, reduce the time required for the surgeon to retract the cutting member.



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International (IPC 8-9): A61B17/00 A61B17/068 A61B17/072 A61B17/10 A61B17/32 A61B17/3209 A61B17/94 A61B19/00 A61B34/30 A61L2/00 B25J19/00 (Advanced/Invention);
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International (IPC 1-7): A61B17/00
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US: 1/1 173/47 173/47P 227/175.1 227/175.100P 227/176.1 227/178.1 227/178.100P 227/180.1 227/180.100P 29/700 29/700S 422/1 422/1S 606/130 606/167 606/170 606/170P 606/219

Family:

Publication number	Publication date	Application number	Application date
AU2012223478 AA	20120907	AU20120223478	20120228
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EP2514371 B1	20151014	EP20120153849	20080604
EP2680760 A1	20140108	EP20120707966	20120228
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WO12166501 A8	20131219	WO2012US39296	20120524

Priority:

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US20110037409	20110301	US20110118223	20110527	US20120369578	20120209
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US20160093020	20160407	US20160147028	20160505	US20170654201	20170719
US20180951744	20180412	US20180995935	20180601	US20180995942	20180601
US20180995948	20180601				

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; SHELTON FREDERICK E ; SHELTON FREDERICK E IV ; ASAHI KASEI CHEMICALS CORP ; ETHICON DEDO SURGERY INC ; ETHICON ENDO SURGERY LLC ; ETHICON LLC ; ETIKON ENDO SERDZHERI INK ; SHELTON IV FREDERICK E ; TIMM RICHARD W

Assignee(s): ETHICON ENDO SURGERY INC CINCINNATI ; ETHICON ENDO SURGERY LLC GUAYNABO ; ETHICON ENDO SUGERY INC ; ETHICON ENDO-SURGERY, INC.

Inventor(s): (std): TIMM RICHARD W ; SHELTON IV FREDERICK E ; SHELTON FREDERIK E IV ; RICHARD W TIMM ; FREDERICK E SHELTON IV ; SHELTON FREDERICK E IV ; MIYAJI HIRONORI ; MATSUZAKI KAZUHIKO ; HACHIYA HIROSHI ; FUKUOKA SHINSUKE ; SHELTON FREDERICK E

Inventor(s): SHELTON IV FREDERICK E NEW VIENNA ; TIMM RICHARD W CINCINNATI ; FREDERICK E IV SHELTON

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; TUNSTALL CHRISTOPHER STEPHEN ET AL; TUNSTALL CHRISTOPHER STEPHEN; CARPMAELS AND RANSFORD LLP;

KATO MASANOBU; K AND L GATES LLP; DEAN L; JOHNSON PHILIP S ET AL

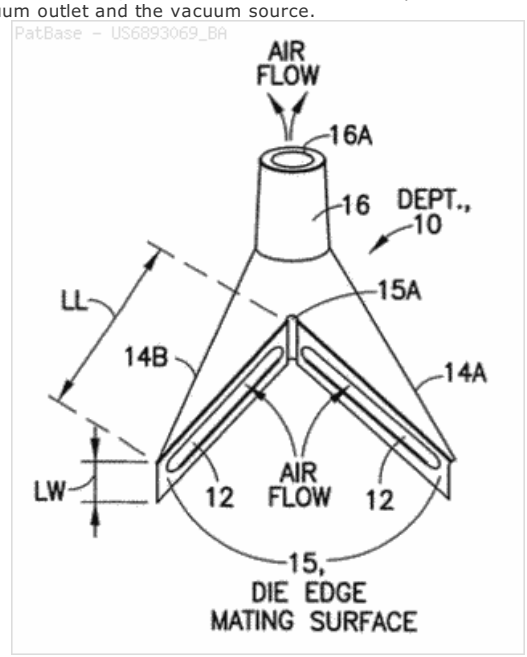
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50) Family number: 31902157 (US6893069B)

Title: DIE EDGE-PICKING VACUUM TOOL

Abstract: A tool (**10**) for vacuum-holding an object, such as an integrated circuit die (**20**). The tool includes a body portion (**16**) having a vacuum outlet (**16**A) for being coupled to a vacuum source. The body portion is coupled to a plurality of tool leg portions (**14**A, **14**B) each having an edge that defines a mating surface (**15**) for engaging an edge (**20**A, **20**B) of the object. Each mating surface contains at least one vacuum inlet (**12**) in fluid communication with the vacuum outlet. In one preferred embodiment there are two leg portions providing two mating surfaces that meet at a corner, where the corner defines a 90 degree angle and corresponds to a corner of the integrated circuit die. A corner relief (**15**A) may be provided to ensure a good mating seal with the die edges. A gasket (**18**) can be provided to surround the at least one vacuum inlet for ensuring the quality of the vacuum seal. The vacuum inlet is formed by an opening having dimensions that are, preferably but not by way of limitation, less than dimensions of the edge of the die. For example, the vacuum inlet is formed by an elongated slot that has dimensions that are less than the dimensions of the edge of the die. The vacuum-picking tool can be used in a manual or an automated environment. For use the manual environment, the vacuum outlet can be adapted to be coupled to a hand-held tool (**30**) that is interposed between the vacuum outlet and the vacuum source.

Classifications:
International (IPC 8-9): B25B11/00 B65G47/91 H01L21/683 (Advanced/Invention); B25B11/00 B65G47/91 H01L21/67 (Core/Invention)
International (IPC 1-7): B25J15/06
CPC: Y10S414/141 H01L21/6838 B25B11/007 B65G47/91
European: B25B11/00C1 B65G47/91 H01L21/683V
US: 294/188 294/64.1 294/641 414/941



Family:

Publication number	Publication date	Application number	Application date
US6893069 BA	20050517	US20020195771	20020712

Priority:
US20010305921P 20010716 US20020195771 20020712

Probable Assignee: RAYTHEON CO
Assignee(s): (std): RAYTHEON CO
Assignee(s): RAYTHEON COMPANY
Inventor(s): (std): GRAHAM JASON S
Agent(s): SCHUBERT WILLIAM C; VICK KARL A; KARL A; WILLIAM C

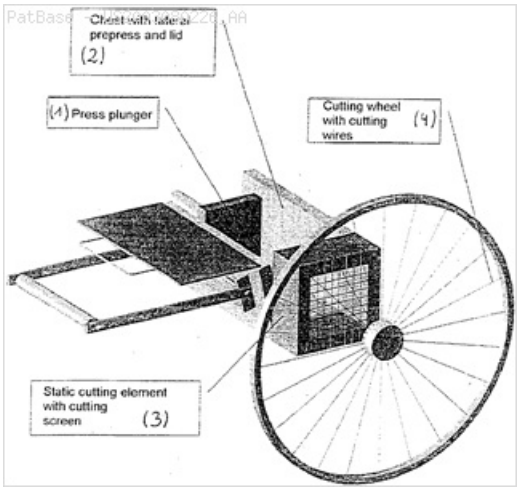
51) Family number: 28444159 (US2003080226A)

Title: PROCESS AND APPARATUS FOR DEFINED COMMINUTION OF POLYMER GELS

Abstract: Apparatus for defined comminution of polymer gels, constructed of a) a static cutting element in the form of screen-shapedly disposed, optionally supported, pretensioned wires, rods, fibers, wovens, stencils or profiles, b) optionally a dynamic cutting element for shortening the gel strands or particles obtained by means of the static cutting unit, in the form of one or more optionally supported, guided and tensioned wires or wovens, and c) a feed unit to feed the polymer gel to the static cutting element in a clamped-in, shape-stable state the feeding being effected batchwise or continuously, and a process for defined comminution of polymer gels.

Classifications:
International (IPC 8-9): B02C17/00 B02C17/02 B02C18/02 B26D1/02 B26D1/547 B26D1/553 B26D3/18 B29B13/10 B29B9/02 B29B9/06 B29C37/00 B29C47/30 B29C48/345 B30B11/26 B30B15/02 C08J11/06 (Advanced/Invention); B29K33/00 B29K33/04 (Advanced/Non-invention); B02C17/00 B02C18/02 B26D1/01 B26D3/00 B29B9/02 B29C37/00 B29C47/30 B30B11/22 B30B15/02 (Core/Invention)
International (IPC 1-7): B02C19/12 B26D1/02 B26D1/547 B29B13/10 B29B9/02 B29B9/06 B29C47/30 B29K33/04 B30B11/26 B30B15/02 C02F1/52 C08J11/06
CPC: B26D1/553 B26D3/18 B29B9/06 B30B11/26

European: B26D1/553 B26D3/18 B29B9/06 B30B11/26
US: 241/263 241/3 241/30 241/84 241/92 241/95



Family:

Publication number	Publication date	Application number	Application date
AT503510 A1	20071015	AT20010001630	20011016
CA2408109 AA	20030416	CA20022408109	20021015
DE50213695 D1	20090903	DE20025013695	20020918
EP1304200 A1	20030423	EP20020020600	20020918
EP1304200 B1	20090722	EP20020020600	20020918
ES2330510 T3	20091211	ES20020020600T	20020918
HU0203491 A0	20021228	HU20020003491	20021015
HU0203491 AB	20040428	HU20020003491	20021015
JP2003181829 A2	20030702	JP20020299982	20021015
JP4278357 B2	20090610	JP20020299982	20021015
US2003080226 AA	20030501	US20020270583	20021016
US2008230642 AA	20080925	US20080153991	20080528
US7566015 BB	20090728	US20020270583	20021016
US7568643 BB	20090804	US20080153991	20080528

Priority:
AT20010001630 20011016 CA20022408109 20021015 US20020270583 20021016
US20080153991 20080528

Probable Assignee: ROYAL DSM NV

Assignee(s): (std): DSM FINE CHEM AUSTRIA GMBH ; DSM FINE CHEMICALS AUSTRIA NAC ; DSM FINE CHEMICALS AUSTRIA NFG ; HAEUBL GEORG ; KIRSCH HELMUTH ; SCHOPPEL GERHARD ; WAGNER MARION ; SCHULZ ERICH ; SUMMER GERALD

Assignee(s): UBS STAMFORD BRANCH COLLATERAL AGENT AG AS ; PATHEON AUSTRIA GMBH AND CO KG ; ROYAL DSM NV ; DSM FINE CHEMICALS AUSTRIA NFG GMBH ; DSM FINE CHEMICALS AUSTRIA NFG GMBH AND CO ; DSM FINE CHEMICALS AUSTRIA NFG GMBH AND CO KG ; DSM FINE CHEMICALS AUSTRIA NFG GMBH AND COKG ; DSM FINE CHEMICALS AUSTRIA NACHFOLGER GMBH AND CO ; DSM FINE CHEMICALS AUSTRIA NACHFOLGER GMBH AND CO KG ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SUCCESSOR AGENT AG AS ; DPX FINE CHEMICALS AUSTRIA GMBH AND CO KG

Inventor(s): (std): HAEUBL GEORG ; HAEUBL GEORG DR ; KIRSCH HELMUTH ; KIRSCH HELMUTH ING ; SCHOPPEL GERHARD ; SCHOPPEL GERHARD DR ; SCHULZ ERICH ; SUMMER GERALD ; WAGNER MARION ; WAGNER MARION DIPL ING

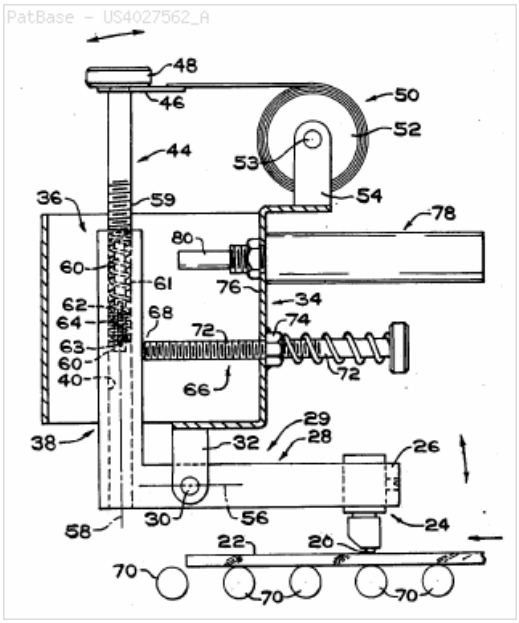
Agent(s): RICHES MCKENZIE AND HERBERT LLP; HABETS WINAND; WENDEROTH LIND AND PONACK LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

52) Family number: 1402161 (US4027562A)

Title: FORCE APPLYING DEVICE FOR SCORING WHEELS

Abstract: A device for applying a constant force to a glass scoring wheel includes a pivotally mounted L-shaped lever arm having the scoring wheel rotatably mounted at one end of the horizontal member and an adjustable vertical member. A constant force coil spring biases the vertical member to pivot the horizontal member in a direction to urge the scoring wheel at a constant predetermined force against the glass sheet. The constant predetermined force acting on the scoring wheel is a function of the height of the vertical arm.
Classifications:
International (IPC 8-9): B26D3/08 B26D7/08
C03B33/10 (Advanced/Invention);
B26D3/08 B26D7/08 C03B33/00 (Core/Invention)
International (IPC 1-7): B26D3/08
CPC: Y10T74/206 C03B33/10 B26D3/085 B26D7/08 Y10T83/0348
Y10T83/0363 Y10T83/0385
European: B26D3/08B B26D7/08 C03B33/10
US: 33/18.1 33/32.3 74/522 83/7 83/8 83/881 83/883 83/886



Family:

Publication number	Publication date	Application number	Application date
US4027562 A	19770607	US19760669560	19760323
US4104939 A	19780808	US19760738919	19761104

Priority:

US19760669560 19760323

Probable Assignee: PPG IND INC

Assignee(s): (std)**:** LYSAGHT AUSTRALIA LTD ; PPG IND INC ; PPG INDUSTRIES INC

Inventor(s): (std)**:** MORRISON B R ; EDWARDS W J ; BONADDIO ROBERT M

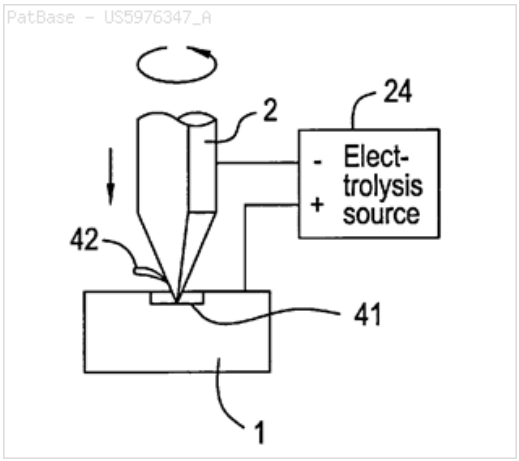
53) Family number: 29341162 (US5976347A)

© PatBase

Title: Micro cutting method and system

Abstract: A method of three-dimensionally microcutting a metal material suitable for molds is provided. An electrolyte is interposed between a work piece which is made of a conductive material, and an electrode. Through application of an electrolysis voltage between the work piece and the electrode with the electrolyte interposed between them, a passive state film is formed on the surface of a to-be-cut part of the work piece. Then, the passive state film on the surface of the to-be-cut part of the work piece is cut.

Classifications:
International (IPC 8-9): B23H3/00 B23H5/06 B23H9/00 B26D7/08 B41J2/16 B81C99/00 (Advanced/Invention)
International (IPC 1-7): B23H3/00 B23H5/06
CPC: B23H5/02 B23H9/00 B26D7/08 B41J2/16 B41J2/1632
European: B23H5/02 B23H9/00 B26D7/08 B41J2/16 B41J2/16M5
US: 204/224.00M 204/224M 205/640 205/662 205/674 205/686



Family:

Publication number	Publication date	Application number	Application date
JP10156626 A2	19980616	JP19960330260	19961126
JP3070499 B2	20000731	JP19960330260	19961126
US5976347 A	19991102	US19970975933	19971121

Priority:

JP19960330260 19961126

Probable Assignee: FUJI XEROX CO LTD

Assignee(s): (std)**:** FUJI XEROX CO LTD

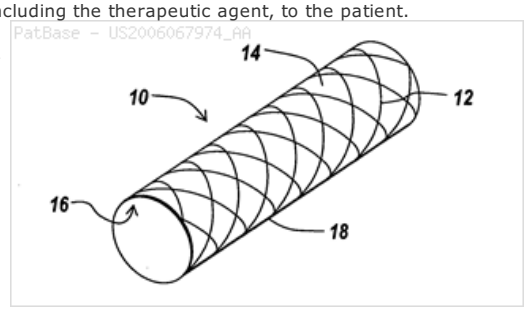
Assignee(s): FUJI XEROX CO

Inventor(s): (std)**:** NAGATA MASANARI ; TANAKA SHUNEI ; YAMADA MAKI ; YAMADA MASAKI ; WAKABAYASHI KIMIHIRO ; TANAKA TOSHIHIDE ; NAGATA MASAKI ; KAWAMATA SHINICHI

54) Family number: 32764164 (US2006067974A)

Title: DRUG DELIVERY COATING FOR USE WITH A STENT

Abstract: A coated medical device an a method of providing a coating on an implantable medical device result in a medical device having a bio-absorbable coating. The coating includes a bio-absorbable carrier component. In addition to the bio-absorbable carrier component, a therapeutic agent component can also be provided. The coated medical device is implantable in a patient to effect controlled delivery of the coating, including the therapeutic agent, to the patient.



Classifications:

International (IPC 8-9): A01N43/00 A61B1/32 A61F13/00 A61F13/02 A61F2/00 A61F2/02 A61F2/06 A61F2/28 A61F2/82 A61F2/86 A61K31/00 A61K31/16 A61K31/20 A61K31/202 A61K31/215 A61K31/225 A61K31/33 A61K31/337 A61K31/355 A61K31/366 A61K31/395 A61K31/405 A61K31/4353 A61K31/436 A61K31/44 A61K31/445 A61K31/453 A61K31/4545 A61K31/4709 A61K31/496 A61K31/7028 A61K31/7036 A61K31/7088 A61K31/727 A61K33/00 A61K33/24 A61K35/60 A61K38/00 A61K38/13 A61K38/14 A61K45/00 A61K47/06 A61K47/10 A61K47/12 A61K47/14 A61K47/22 A61K47/44 A61K48/00 A61K49/00 A61K6/00 A61K8/02 A61K9/00 A61K9/06 A61K9/10 A61K9/14 A61K9/16 A61K9/24 A61K9/28 A61K9/70 A61L15/16 A61L15/20 A61L15/44 A61L2/07 A61L2/08 A61L2/14 A61L2/20 A61L26/00 A61L27/00 A61L27/28 A61L27/36 A61L27/52 A61L27/54 A61L29/00 A61L29/08 A61L29/12 A61L29/14 A61L29/16 A61L31/00 A61L31/08 A61L31/10 A61L31/12 A61L31/14 A61L31/16 A61L33/00 A61M1/12 A61M25/00 A61M31/00 A61M35/00 A61P29/00 A61P3/00 A61P35/00 A61P37/00 A61P41/00 A61P43/00 A61P7/02 A61P9/00 B05B13/04 B05C1/00 B05C11/02 B05C13/02 B05C3/00 B05C3/109 B05D1/00 B05D1/02 B05D1/18 B05D1/28 B05D3/00 B05D3/02 B05D3/06 B05D5/00 B05D5/08 B05D7/00 B26F1/18 B29C39/02 B65B31/04 B65B55/02 B65B55/12 B65B55/18 C07C53/00 C07C57/00 C07D307/02 (Advanced/Invention);
A61F2/06 A61F2/82 B05D3/06 (Advanced/Non-invention);
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A61L (Subclass/Invention)

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Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BERESKIN AND PARR; BERESKIN AND PARR LLP SENCRL SRL; WAGNER AND HELBIG PATENTANWAELTE; HELBIG CHRISTIAN; TOMLINSON EDWARD JAMES; OSAKABE SUGURU; SHIMIZU HATSUSHI; KAWAMOTO KAZUYA; LAHIVE AND COCKFIELD LLP; LAHIVE AND COCKFIELD; LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000; MORSE BARNES BROWN AND PENDLETON PC; SEAN D; MORSE BARNES BROWN AND PENDELTON PC; WESLEY SCOTT; WESLEY SCOTT ASHTON; CANNING KEVIN J ET AL; DETWEILER SEAN D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

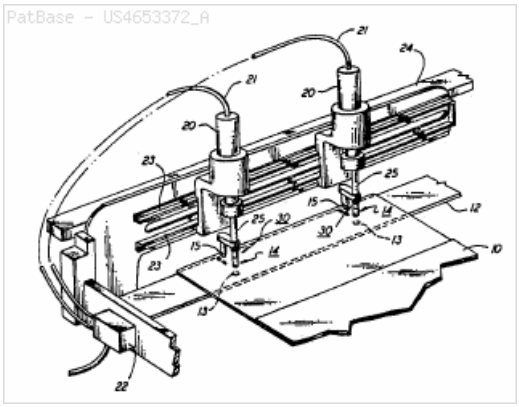
55) Family number: 5247168 (US4653372A)

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Title: SELF-SHARPENING HOLE PUNCH FOR PLASTIC BAGS

Abstract: A self-sharpening hole punch for plastic bags includes a pneumatically operated punching apparatus for punching wicket pin receiving holes in a flexible film or plastic bag. If desired, a tear slit may be simultaneously formed to enable the bag to be quickly and readily torn free from the wicket pin upon which the bag is retained. The disclosed embodiment utilizes a pneumatic air cylinder having a free end of the cylinder rod having a fitting secured thereto having an internal tapered bore. Interchangeable plastic cutting tools, having a complementary tapered thread, may be interchangeably threaded into the fitting to facilitate replacement as necessary.

Classifications:
International (IPC 8-9): B26F1/14 (Advanced/Invention); B26F1/02 (Core/Invention)
International (IPC 1-7): B26D7/06 B26F1/14 B26F1/18
CPC: Y10T83/2133 Y10T83/2157 Y10T83/8717 Y10T83/9423 Y10T83/9435 B26F1/14
European: B26F1/14
US: 83/128 83/139 83/542 83/684 83/689



Family:

Publication number	Publication date	Application number	Application date
US4653372 A	19870331	US19850748920	19850626
US4723466 A	19880209	US19860827905	19860210

Priority:

US19850748920 19850626 US19860827905 19860210

Probable Assignee:	POTTORFF EARL T
Assignee(s): (std)**:**	POTTORFF EARL T
Inventor(s): (std)**:**	POTTORFF EARL T

56) Family number: 56914170 (US2015173993A)

Title: SOFT EXOSUIT FOR ASSISTANCE WITH HUMAN MOTION

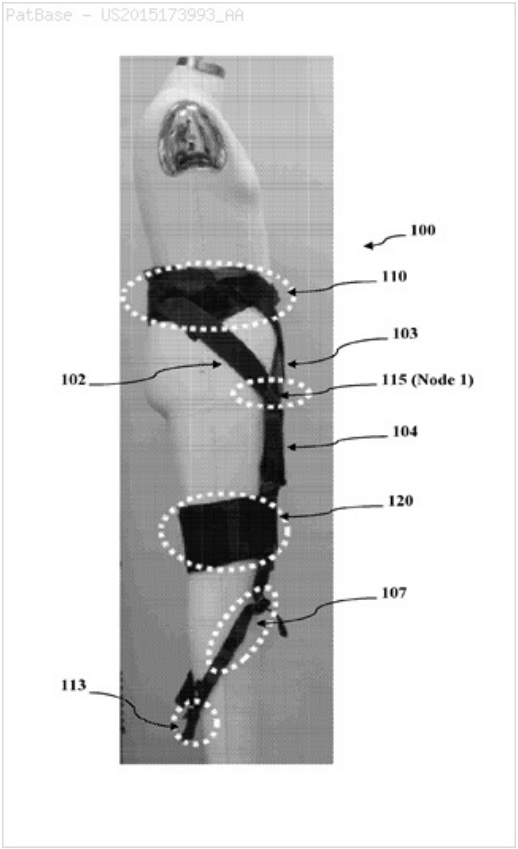
Abstract: In at least one aspect, there is provided a system for generating force about one or more joints including a soft exosuit having a plurality of anchor elements and at least one connection element disposed between the plurality of anchor elements. The system also includes at least one sensor to determine a force the at least one connection element or at least one of the plurality of anchor elements and to output signals relating to the force, at least one actuator configured to change a tension in the soft exosuit and at least one controller configured to receive the signals output from the at least one sensor and actuate the at least one actuator responsive to the received signals.

Classifications:

International (IPC 8-9): A41D13/00 A61B5/00 A61B5/103 A61B5/11 A61F2/36 A61F2/50 A61F2/60 A61F2/68 A61F2/70 A61F5/00 A61F5/01 A61H1/00 A61H1/02 A61H3/00 A61H3/04 A63B21/00 A63B21/005 A63B21/02 A63B21/04 A63B24/00 A63B26/00 A63B69/00 A63B71/00 B25J11/00 B25J13/00 B25J9/00 B25J9/10 B25J9/16 F03G5/06 F03G7/08 G06F19/00 G09B19/00 (Advanced/Invention);
A63B24/00 (Advanced/Non-invention)

CPC: A61H2201/149 A61H2201/1671 A61H2201/5002 A61H2230/605 A61H1/0262 A61F2005/0155 A61H2201/123 A61H2201/1253 A61H2201/1676 A61H2201/5046 A61H2201/5048 A63B21/008 A63B21/023 A63B21/152 A63B23/03541 A63B23/0405 A63B2071/0666 A63B2071/068 A63B2220/24 A63B2220/801 A63B2225/20 A63B2225/50 A63B2230/60 F03G7/005 A63B21/0054 A63B21/4013 A63B21/4015 A63B21/4025 A63B21/4047 A61B5/112 A61B5/6812 A61B5/6828 A61B5/6831 A61H1/0277 A61H2201/0107 A63B21/0058 A63B21/157 A63B2024/0093 A63B2071/0655 A63B2220/16 A63B2220/89 A61F5/0102 A61F2005/0179 A61H2003/001 A61H2201/1642 A61H2201/0165 A61H2201/1673 A61H2201/5015 A61H2201/5082 A61H2230/505 A61H2201/165 B25J9/104 B25J9/1694 A61H2003/007 A61H2201/5061 A63B71/0054 A61H2201/5071 A61H3/008 A61H3/04 A61H2003/043 A61H2201/5064 A61H2201/5084 A63B21/00178 A63B21/00181 A63B21/4009 A63B24/0087 A63B26/003 A63B69/0064 A63B2022/0092 A63B2071/0072 A63B2071/025 A63B2220/40 A63B2220/51 A63B2220/803 G09B19/003 A61F5/0125 A61F2005/0165 A61F2005/0188 A61F2005/0137 A61F2005/0197 A61F5/0123 G09B19/0038 A61F13/08 A61H2201/1207 A61H2201/14 A61H2201/1623 A61H2201/169 A61H2201/5028 A61H2201/5038 A61H2201/503 A61H2201/1695 A61H2201/1659 A61H2205/106 A61F5/01 A61F5/0127 A61F2005/0158 A61B5/04888 A61B5/4851 A61B5/6811 Y02A90/26 G16H20/30 B25J9/0006 A61H1/024 A61H1/0244 A61H1/0266 A61H3/00 A61H2201/1215 A61H2201/1238 A61H2201/1246 A61H2201/1261 A61H2201/1481 A61H2201/1628 A61H2201/164 A61H2201/1652 A61H2201/1664 A61H2201/5007 A61H2201/501 A61H2201/5069 A61H2201/5079 A61H2201/5097 A61H2230/60

US: 1/1 248/550 414/4 414/7 482/78 602/26 623/26



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Priority:

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WO2014US40340 20140530	US20140371675 20140710	US20140048076P 20140909
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US20160097744 20160413		

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

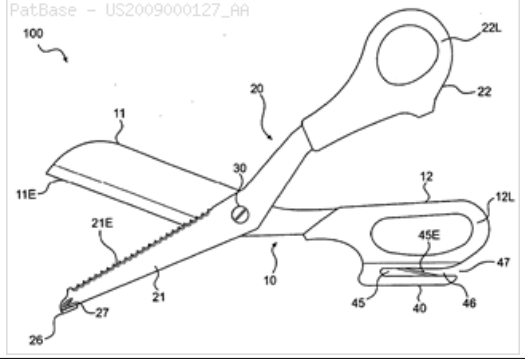
57) Family number: 42759175 (US2009000127A)

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Title: MULTIPURPOSE SHEARS

Abstract: Multi-purpose shears adapted to include structure that enables rapid and effective cutting of sheet fabric as well as tough fabric. A U-shaped housing is positioned on a loop grip of the shears, the housing having an insertion slot defining an opening at one end and at least one blade having a cutting edge mounted within the housing. The blades are positioned within the housing so as to present a cutting edge obliquely to the insertion slot, so as to cut or slice material inserted into the insertion slot. The insertion slot is generally configured in a direction that permits ergonomic handling of the shears for both snipping and for slicing. The opening may be oriented in a proximal direction relative to the operator, so that the operator may snip in one direction and slice in the reverse direction.

Classifications:
International (IPC 8-9): B26B B26B11/00 B26B13/00 B26B13/12 B26B13/22 (Advanced/Invention);
B26B11/00 B26B13/00 (Core/Invention)
CPC: B26B13/08 B26B13/12 B26B13/22
European: B26B13/08 B26B13/12 B26B13/22
US: 30/134 30/146 30/146P 30/254 7/144 7/158



Family:

Publication number	Publication date	Application number	Application date
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CN101730614 B	20130320	CN200880022075	20080623
DE602008021165 D1	20130228	DE200860021165T	20080623
EP2160273 A1	20100310	EP20080771716	20080623
EP2160273 A4	20110330	EP20080771716	20080623
EP2160273 B1	20121226	EP20080771716	20080623
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HK1143563 A1	20110107	HK20100110104	20101027
RU2010101989 A	20110810	RU20100101989	20080623
RU2454315 C2	20120627	RU20100101989	20080623
US2009000127 AA	20090101	US20080138750	20080613
US2011138631 AA	20110616	US20110029537	20110217
US2012297549 AA	20121129	US20120570262	20120809
WO09002908 A1	20081231	WO2008US67849	20080623

Priority:

US20070937220P 20070626 US20080138750 20080613 EP20080771716 20080623
WO2008US67849 20080623 US20110029537 20110217 US20120570262 20120809

Probable Assignee: RIP SHEARS LLC

Assignee(s): (std)**:** CHRISTOPHER SMITH ; RIP SHEARS LLC ; RIP SHIRZ LLS ; SMITH CHRISTOPHER

Assignee(s): RIP SHEARS LLC VIRGINIA BEACH

Inventor(s): (std)**:** SMITH CHRISTOPHER ; CHRISTOPHER SMITH ; SMIT KRISTOFER

Inventor(s): SMITH CHRISTOPHER SUFFOLK

Agent(s): WUESTHOFF AND WUESTHOFF PATENTANWAELTE PARTG MBB; BEYER ANDREAS; CHINA PATENT AGENT HK LTD; WILLIAMS MULLEN; HOLLOWELL KELLY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

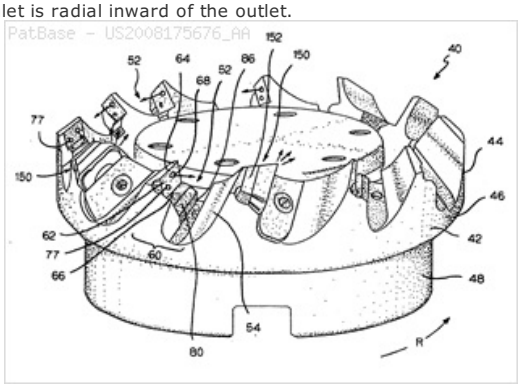
58) Family number: 42044176 (US2008175676A)

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Title: MILLING CUTTER AND MILLING INSERT WITH COOLANT DELIVERY

Abstract: A cutting insert for use in chipforming and material removal from a workpiece wherein coolant is supplied to the cutting insert from a coolant source. The cutting insert includes at least one discrete cutting location and at least one distinct internal channel that corresponds to the cutting location. The internal channel has an inlet to receive coolant and an outlet to exit coolant. The outlet is proximate to the cutting location, and the inlet is radial inward of the outlet.

Classifications:
International (IPC 8-9): B23B B23B27/10 B23B27/14 B23B27/16 B23B27/22 B23B29/04 B23C5/06 B23C5/08 B23C5/10 B23C5/16 B23C5/20 B23C5/22 B23C5/28 B23P15/28 B23Q11/10 B26D1/12 (Advanced/Invention);
B23B27/10 B23C5/08 B23C5/10 B23C5/20 (Advanced/Non-invention);
B23C5/00 B23C5/02 B23C5/16 B23P15/28 B23Q11/10 B26D1/01 (Core/Invention)
International (IPC 1-7): B23C5/28
CPC: B23C5/06 B23B27/141 B23B29/04 B23B2200/0461 B23B2200/086 B23B2200/168 B23C5/20 B23C2200/045 B23C2200/167 B23Q11/1023 B23B27/16 B23C5/22 Y10T407/1924 Y10T407/1936 Y10T407/11 Y10T407/14 Y10T407/191 Y10T407/1926 Y10T407/23 Y10T407/235 Y10T407/27 Y10T408/44 Y10T407/2272 Y10T407/2274 Y10T407/24 B23B27/145 B23B27/10 B23B2205/16 B23Q11/10 B23C5/2221 B23C5/28 B23C5/109 B23C2200/085 B23C5/207 B23C2200/086 B23C2210/166
European: B23B27/10 B23B27/12 B23B27/14B B23B27/14B4 B23B29/04 B23C5/06 B23C5/08 B23C5/10F B23C5/20 B23C5/20B4 B23C5/22B1B4 B23C5/28 B23Q11/10 B23Q11/10E2 L23B200/04G L23B200/08E L23B200/16H L23B205/16 L23C200/04G L23C200/08D L23C200/08E L23C200/16H L23C210/16G
US: 407/102 407/102S 407/103 407/11 407/113 407/113S 407/114 407/114S 407/115 407/115S 407/119 407/119S 407/11P 407/2 407/35 407/42 407/42P 407/43 407/48 407/48S 408/56



Family:

Publication number	Publication date	Application number	Application date
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WO12030485 A2	20120308	WO2011US46988	20110809
WO12030485 A3	20120510	WO2011US46988	20110809

Priority:

US20070654833	20070118	US20070940394	20071115	BR2007PI21031	20071212
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CA20112750361	20110824				

Probable Assignee: KENNAMETAL INC

Assignee(s): (std)**:** ANDRAS LINN ; ANDRAS LINN R ; ANDRAS LINN ROSS ; CHEN SHI ; CONWAY CHARLES L ; CONWAY CHARLES LISLE ; KENNAMETAL INC ; HOFFER BRAD D ; HENRY NICHOLAS J ; MIZGALSKI KENT P ; PRICHARD PAUL D ; PRICHARD PAUL DEHNHARDT ; MULLER THOMAS O ; NELSON JOSEPH V ; NELSON JOSEPH ; MULLER THOMAS ; PRICHARD PAUL ; MULLER THOMAS OWEN ; MIZGALSKI KENT PETER ; HENRY NICHOLAS JOSEPH ; HOFFER BRAD ; MUELLER THOMAS ; HOFFER BRAD DANIEL ; LONG II THOMAS JERRY

Assignee(s): KENNAMETAL INC LATROBE ; KENNAMETAL INK

Inventor(s): (std)**:** MIZGALSKI KENT PETER ; HOFFER BRAD D ; MULLER THOMAS O ; CONWAY CHARLES LISLE ; NELSON JOSEPH V ; CHEN SHI ; HENRY NICHOLAS JOSEPH ; HOFFER BRAD ; MULLER THOMAS ; ANDRAS LINN ; NELSON JOSEPH ; PRICHARD PAUL ; MULLER THOMAS OWEN ; HOFFER BRAD DANIEL ; LONG II THOMAS JERRY ; HENRY NICHOLAS J ; CONWAY CHARLES L ; MIZGALSKI KENT P ; EHNDREHS LINN R ; PRICHARD POL D ; ANDRAS LINN R ; PRICHARD PAUL D ; PRICHARD PAUL DEHNHARDT ; ANDRAS LINN ROSS

Inventor(s): PAUL D PRICHARD ; LINN R ANDRAS ; BRAD D HOFFER ; JOSEPH V NELSON ; THOMAS O MULLER ; ANDRAS LINN R LATROBE ; PRICHARD PAUL D GREENSBURG

Agent(s): SMART AND BIGGAR; PRINZ AND PARTNER MBB PATENTANWAELTE RECHTSANWAELTE; PRINZ AND PARTNER; Prinz & Partner; KENNAMETAL INC; KENNAMETAL INC INTELLECTUAL PROPERTY DEPARTMENT; LARRY R; MEENAN LARRY R ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

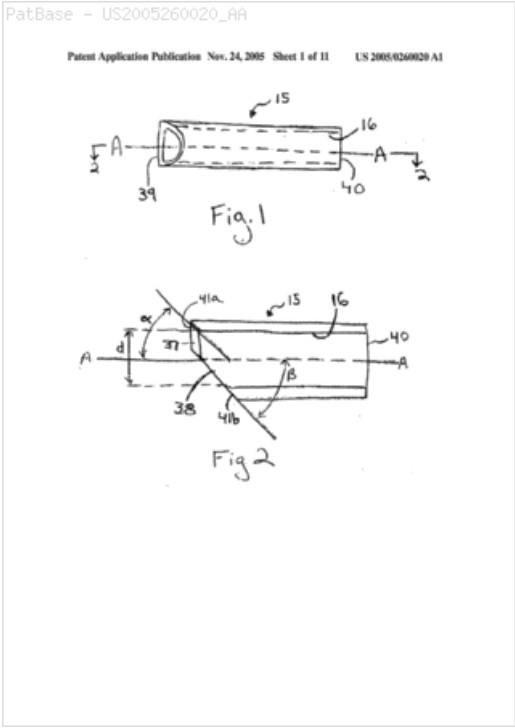
59) Family number: 32437176 (US2005260020A)

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Title: SKIVING DEVICE AND METHODS OF USE

Abstract: A skiving device including at least one nozzle tip and at least one roller is described, as well as methods of using the skiving device. Skives made with the skiving device are clean, neat, and do not damage underlying layers.

Classifications:
International (IPC 8-9): B26D1/00 B26D1/44 B26D3/06 G02F1/1333 G03G15/14 G03G15/20 (Advanced/Invention);
B26D1/00 B26D1/01 B26D3/00 G02F1/13 G03G15/14 G03G15/20 (Core/Invention)
International (IPC 1-7): G03G15/14
CPC: B26D1/0006 B26D1/445 B26D3/065 B26D2001/002 B26D2001/006
European: B26D1/00C B26D1/44B B26D3/06B L26D1/00C14 L26D1/00C4
US: 399/322 399/323 399/398 399/398P 399/399



Family:

Publication number	Publication date	Application number	Application date
US2005260020 AA	20051124	US20040851492	20040521
US7024153 BB	20060404	US20040851492	20040521

Priority:
US20040851492 20040521

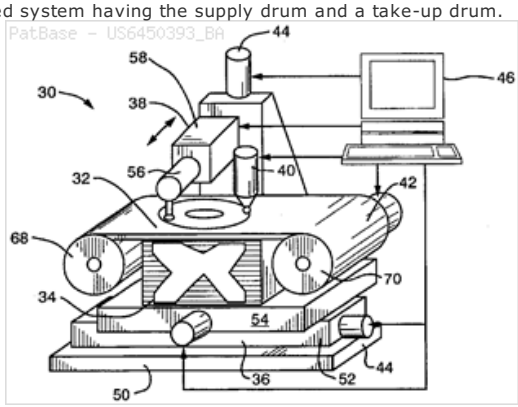
Probable Assignee: INDUSTRIAL TECHNOLOGY RESEARCH INST
Assignee(s): (std): EASTMAN KODAK CO
Assignee(s): EASTMAN KODAK COMPANY ; INDUSTRIAL TECHNOLOGY RESEARCH INST
Inventor(s): (std): COLEMAN RUSTY J ; MACAULEY JOHN P ; RANKIN CHARLES M JR ; RANKIN JR CHARLES M ; RICKS THEODORE K ; WEINER MEGAN L
Inventor(s): RANKIN ; JR CHARLES M ; WEINER MEGAN ; COLEMAN RUSTY ; RICKS THEODORE ; RANKIN CHARLES MJR ; RANKIN CHARLES ; RANKIN CHARLES M ; MACAULEY JOHN
Agent(s): PAUL A LEIPOLD PATENT LEGAL STAFF; KATHLEEN NEUNER

60) Family number: 23922180 (US6450393B)

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Title: MULTIPLE-MATERIAL PROTOTYPING BY ULTRASONIC ADHESION

Abstract: A method and apparatus for producing a three-dimensional part from a plurality of planar layers using an ultrasonic welder. A sheet of planar material is placed on the partial part and ultrasonically welded, with the first sheet placed on a base. The sheet is cut to the shape of the partial part. The process of placing of the sheet materials on the partial, welding, and cutting of the two-dimensional contour layer is continued until part is complete. In a preferred embodiment, the three-dimensional part has layers of different material. The materials can be layers of incompatible materials for ultrasonic welding in which voids are created through interposed non-compatible materials for ultrasonic welding, to allow ultrasonic welding of compatible material layers spaced by a sheet of incompatible material. In a preferred embodiment a component, such as a thermal actuator; a optical component; an internal sensor; a plurality of electronic elements, or a mechanical actuator for creating a actively deformable part, is introduced between layers of material of the part. The method described allows the introduction of components which are sensitive to manufacturing temperatures. A pressure mask applies pressure to the top layer as the layer is ultrasonic welded to the part. In a preferred embodiment, the elongated sheets of material are carried on a supply drum and moved over the partial part using a feed system having the supply drum and a take-up drum.
Classifications:
International (IPC 8-9): B23P15/00 B23P15/24 B29C65/08 B29C67/00 (Advanced/Invention)
International (IPC 1-7): B23K20/10 B26D7/18 B29C65/00 B29C67/00 D23K1/06
CPC: B29C65/085 B29C65/086 B23P15/00 B23P15/246 B29C66/1122 B29C66/43 B29C66/80 B29C66/863 B29C2793/00 B29C66/91214 B29C66/91221 B29C66/91411 B29C66/9161 B29C66/81433 Y10T156/1075 B29C66/9512 B29C66/9513 B29C66/9516 B29C66/83411 B29C66/8322 B29C66/73921 B29C66/8242 B29C64/141 B29C64/40 B29C66/73116 B29C64/165
European: B23P15/00 B23P15/24 B23P15/24B B29C65/08 B29C66/80 B29C67/00R4 B29C67/00R6 B29C67/00R8D L29C65/08 L29C66/1122 L29C66/43 L29C66/863 L29C793/00
US: 156/264 156/73.1 228/110.1 228/160



Family:

Publication number	Publication date	Application number	Application date
AU199948498 A1	20000117	AU19990048498	19990630

AU199948498 A5	20000117	AU19990048498	19990630
US6450393 BA	20020917	US20010753070	20010102
WO0000344 A1	20000106	WO1999US14858	19990630

Priority:

US19980091268P 19980630 WO1999US14858 19990630 US20010753070 20010102

Probable Assignee: TRUSTEES OF TUFTS COLLEGE

Assignee(s): (std): DOUMANIDIS CHARALABOS ; JOHNSON NORBERT ; TUFTS COLLEGE

Assignee(s): NATIONAL SCIENCE FOU ; NATIONAL SCIENCE FOUNDATION ; TRUSTEES OF TUFTS COLLEGE ; TRUSTEES OF TUFTS COLLEGE BALLOU HALLMEDFORD

Inventor(s): (std): DOUMANIDIS CHARALABOS ; JOHNSON NORBERT

Inventor(s): NORBERT JOHNSON ; CHARALABOS DOUMANIDIS

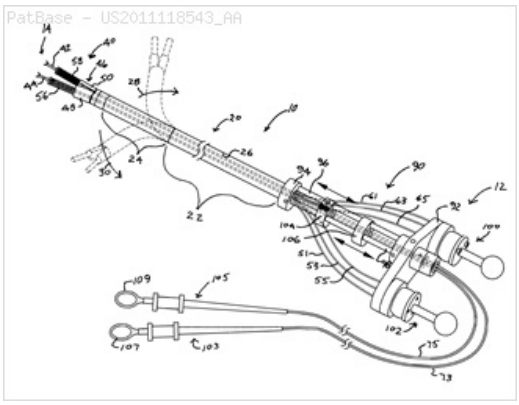
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61) Family number: 48909182 (US2011118543A)

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Title: SURGICAL DEVICE

Abstract: A surgical device comprises an external sheath having a proximal end and a distal end for insertion through an opening of a body and a plurality of tool components extending from the distal end of the external sheath. The tool components are independently deflectable with respect to each other and with respect to the external sheath and removable from the device without requiring withdrawal of the sheath through the opening of the body. The external sheath is flexible and deflectable intermediate the distal and proximal ends. This permits the device to be steered in a curvilinear manner towards a surgical target.



Classifications:

International (IPC 8-9): A61B1/00 A61B1/06 A61B1/32 A61B17/00 A61B17/02 A61B17/24 A61B17/28 A61B17/29 A61B17/34 A61B19/00 A61B34/00 A61B34/30 A61B34/35 A61B90/00 A61B90/60 A61G15/08 A61M25/01 A61M25/092 A61M29/00 A61M29/02 B25J13/02 B25J13/06 B25J13/08 B25J15/08 G06F3/01 (Advanced/Invention);
A61B17/00 A61B17/24 A61B17/29 A61B17/34 A61B18/22 A61B90/30 A61M1/00 A61N7/02 (Advanced/Non-invention)

CPC: A61B17/00234 A61B1/06 A61B2017/00871 A61B17/0231 G06F3/016 G06F3/014 A61B2017/00973 A61M29/00 A61B2017/3443 A61B17/3496 A61B2090/065 A61B34/30 A61B34/74 A61B34/76 A61B90/60 B25J13/02 G06F3/011 A61B34/35 A61B2017/3433 A61B2017/3454 A61B17/29 A61B2017/2926 A61B17/3421 A61B18/22 A61B2017/003 A61B2017/2906 A61B2017/2908 A61B2017/3447 A61N7/022 A61B1/32 A61B17/24 A61B17/3431 A61B90/00 A61B90/39 A61B2017/00278 A61B2017/00849 A61B2017/00876 A61B2017/345 A61B2090/08021 A61B2090/306 A61B2217/005 A61B2217/007 A61M1/0084 A61B1/233 A61B17/3415 A61B17/3423 A61B1/00154 A61B2090/0801

European: A61B17/34G4 A61B17/34G4A A61B19/00 A61B19/22B B25J13/02 K61B17/00E3G K61B17/00S12P K61B17/00S14 K61B17/00S4T K61B17/00V K61B17/24 K61B17/29F10 K61B17/29F8 K61B17/34G4C K61B17/34G4M2 K61B17/34S2 K61B18/22 K61B19/22B14 K61B19/22J K61B19/22N K61B19/28 K61B19/48B2 K61B19/52B4 K61B19/54 K61B217/00Q16 K61B217/00Q18 K61M1/00T2 K61N7/02C

US: 1/1 128/898 600/104 600/104P 600/106 600/106S 600/114 600/114S 600/201 600/201P 600/204 600/207 600/236 606/130 606/130P 606/190 606/190P 606/192 606/198 606/199

Family:

Publication number	Publication date	Application number	Application date
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US2011118551 AA	20110519	US20100943779	20101110
US2011238079 AA	20110929	US20110051921	20110318
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US2017042409 AA	20170216	US20160340718	20161101
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US2018206709 AA	20180726	US20180933036	20180322
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WO18035430 A1	20180222	WO2017US47550	20170818

Priority:

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Probable Assignee: SPIWAY LLC

Assignee(s): (std): BLY RANDALL A ; CHEN EUGENE G ; CIPOREN JEREMY ; DOSHER JESSE A ; FRIEDMAN DIANA C W ; LENDVAY THOMAS S ; KIM AYLIN Z ; GLOZMAN DANIEL ; MOE KRISTEN S ; HANNAFORD BLAKE ; KIM LOUIS ; KIM AYLIN ; KARNS DEVIN ; SEKHAR LALIGAM ; ROSEN JACOB ; PRIDGEON JAMES S ; RAMANATHAN DINESH ; SPI SURGICAL INC ; SPIWAY LLC

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Inventor(s): (std): CHEN EUGENE ; EWERS RICHARD C ; FRIMOND STEPHANIE ; LAM CANG ; MOE KRISTEN ; SEKHAR LALIGAM ; ROSEN JACOB ; PRIDGEON JAMES S ; MOE KRISTEN S ; LENDVAY THOMAS S ; KIM LOUIS ; KIM AYLIN Z ; HANNAFORD BLAKE ; GLOZMAN DANIEL ; FRIEDMAN DIANA C W ; DOSHER JESSE A ; RAMANATHAN DINESH ; KIM AYLIN ; KARNS DEVIN ; CIPOREN JEREMY ; CHEN EUGENE G ; BLY RANDALL A

Inventor(s): FRIEDMAN DIANA CW

Agent(s): WILSON SONSINI GOODRICH AND ROSATI; KENNETH H; PERKINS COIE LLP; GRAY RICHARD O JR ET AL; GRAYBEAL JACKSON LLP ET AL; GRAY JR RICHARD O ET AL; OHRINER KENNETH H ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

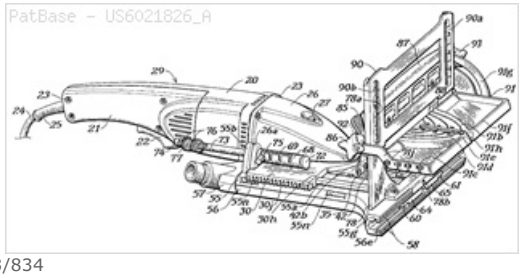
62) Family number: 29375186 (US6021826A)

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Title: POWERED CUTTING SAW SYSTEM

Abstract: A plate-joinery system includes a chain-saw plate joiner where the cutting mechanism includes a cutting-chain driven about a saw-bar. The cutting mechanism of the chain-saw plate joiner may be advanced on rails to one of a set of predetermined depths. The increased recess depth allowed by the chain-saw and the resultant increase in both glueable surface area and mechanical engagement permit high-strength right-angle joints to be made with the speed of conventional plate-joinery. Plate-joints of more conventional proportion may also be made. The plate joinery system also includes specialty plate configurations and compatible fasteners that permit many joints to be rapidly assembled without resort to either manual glue application or external clamps. A series of high-precision, low-friction cutting devices suitable for general introduction is also described.

Classifications:
International (IPC 8-9): B27B17/04 B27B33/14 B27F5/02 B27F5/06 B27G19/00 B27G19/02 B27G19/10 F16B12/04 (Advanced/Invention)
International (IPC 1-7): B26D1/46 B27B17/00 B27B17/04 B27B33/14 B27F5/00 B27F5/06 B27G19/00 B27G19/10 B27M1/00 F16B12/04 F16B12/24 F16B13/14
CPC: Y10T403/55 Y10T403/559 Y10T403/75 F16B12/04 A47B2230/0059 B27B17/04 B27B33/14 B27F5/023 B27F5/06 B27G19/003 B27G19/02 B27G19/10 Y10T83/909 Y10T83/925
European: B27B17/04 B27B33/14 B27F5/02A B27F5/06 B27G19/00B B27G19/02 B27G19/10 F16B12/04 K47B230/00C1
US: 144/136.95 144/154.5 144/36.95 144/363 144/371 144/72 144/73 30/371 30/374 30/377 403/292 403/298 403/408.1 83/830 83/834



Family:

Publication number	Publication date	Application number	Application date
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US6021826 A	20000208	US19980081007	19980519
WO9852728 A2	19981126	WO1998US10209	19980519
WO9852728 A3	19990218	WO1998US10209	19980519
WO9852728 C1	19990325	WO1998US10209	19980519

Priority:

US19970047031P 19970519 US19970047031P 19970519 US19980081007 19980519
WO1998US10209 19980519

Probable Assignee: DANIELL STEPHEN S

Assignee(s): (std): DANIELL STEPHEN S

Assignee(s): STEPHEN S DANIELL

Inventor(s): (std): DANIELL STEPHEN S

Inventor(s): STEPHEN S DANIELL

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

63) Family number: 57220193 (DE202014005372U1)

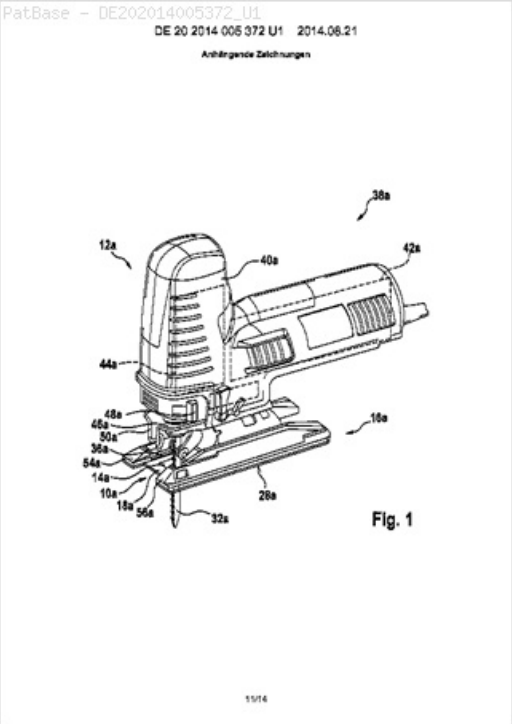
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Title: SPANAUSREISSSCHUTZVORRICHTUNG

Abstract: Source: DE202014005372U1 [DE] Spanausreissschutzvorrichtung fuer eine Handwerkzeugmaschine (12a), mit

zumindest einem Spanausreissschutzelement (14a; 14b; 14c), das an einer Werkstueckanlageeinheit (16a) der Handwerkzeugmaschine (12a) anordenbar ist, dadurch gekennzeichnet, dass das Spanausreissschutzelement (14a; 14b; 14c) zumindest teilweise aus einem flexiblen Werkstoff, insbesondere aus einem Elastomer, gebildet ist.

Classifications:
International (IPC 8-9): B23D49/16 B25F5/00 (Advanced/Invention)
CPC: B25F5/00 B23D49/162



Family:

Publication number	Publication date	Application number	Application date
CN205111786 U	20160330	CN201520465638U	20150701
DE202014005372 U1	20140821	DE201420005372U	20140701

Priority:
DE201420005372U 20140701

Probable Assignee:	BOSCH GMBH ROBERT
Assignee(s): (std)**:**	BOSCH GMBH ROBERT
Assignee(s):	ROBERT BOSCH GMBH
Inventor(s): (std)**:**	ANDRE HOFFMANN ; SIMON HAAS

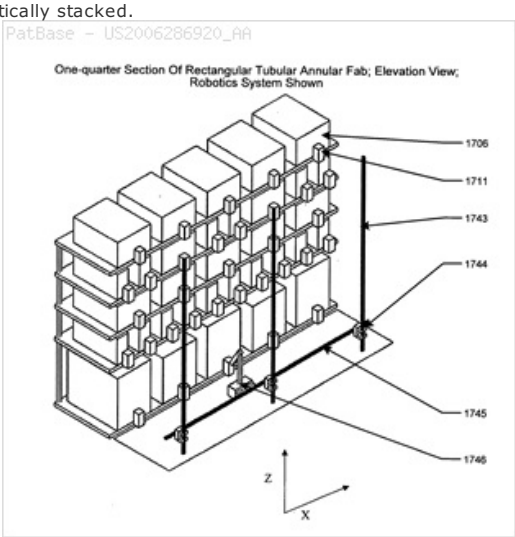
64) Family number: 34026194 (US2006286920A)

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Title: METHOD AND APPARATUS FOR A CLEANSPACE FABRICATOR

Abstract: A fab can be constructed as a round or rectangular annular tube with a primary cleanspace located in-between its inner and outer tubes. The fab can be encircled with levels upon which tools can be densely packed while preserving unidirectional air flow. If only tool ports are inside, and robotics are used, primary cleanspace size can be minimized. Highly simplified robotics can be used. Tools can be removed and repaired centrally. A secondary cleanspace can be added for tool bodies. Multilevel construction enhances use of prefabricated units for fab build or maintenance. Curves or folds, applied to a conventional planar cleanroom, can construct a wide range of fab geometries, including a tubular non-annular fab. A fab can also be constructed according to a curved or non-curved sectional cut of an annular tube. A novel fab, of a non-curved section, can include a nonsegmented cleanspace or have its tools vertically stacked.

Classifications:
International (IPC 8-9): B01D50/00 B01L1/04 B08B15/00 B23P11/00 B23P19/04 B23Q3/155 B25J11/00 B25J5/00 B65G1/133 B65G49/07 B65G65/00 C23C16/00 C23F1/00 F16J15/00 F24F7/00 G05B19/19 G05B19/402 G05B19/418 G05D3/00 G06F19/00 G06F21/60 G06F21/72 G06F21/87 G06F7/00 H01L H01L21/00 H01L21/027 H01L21/268 H01L21/306 H01L21/3205 H01L21/56 H01L21/67 H01L21/673 H01L21/677 H01L21/683 H01L21/768 H01L23/532 H01L25/00 H01L25/065 H04L29/06 H04L9/10 H04L9/12 H04L9/36 H05K13/04 H05K3/00 H05K3/30 (Advanced/Invention);
B01D50/00 B01L1/00 B65G1/12 F16J15/00 F24F7/00 H01L21/67 (Core/Invention);
H01L (Subclass/Invention)
CPC: B01L1/04 H05K3/00 H01L21/6719 H01L21/67346 H01L21/67748 H01L21/67769 Y10T29/52 B23Q3/155 H01L21/67276 Y10T29/53096 G05B19/4189 G05B2219/31276 H01L21/67727 G05D3/00 B23P19/04 Y10T29/5313 Y10T29/53478 H01L21/67775 Y10T403/52 Y10T483/17 B08B15/00 G05B19/418 G05B2219/45031 B23P21/00 B23P21/002 Y10T29/49623 Y10T29/49716 H01L21/67178 H01L21/67745 H01L21/67017 H01L21/677 Y10T29/41 Y10T29/49 Y10T29/49826 H01L21/3065 H01L21/0274 H01L21/268 H01L23/53276 H01L21/56 H05K13/0495 H01L21/67253 H01L21/67288 H01L21/67706 H01M8/02 H01M10/04 G06F1/1633 G09C1/00 H04L9/0866 Y02P90/28 H04L63/04 G06F21/602 H04L9/12 G06F21/72 G06F21/606 G06F21/87 H01L21/67736 B65G2814/0313 H01L21/67733 B65G65/005 H05K1/0275 H05K1/0284 H05K1/0286 H05K1/181 H01L21/67712
European: H01L21/677 H01L21/677D8 H01L21/67S2D



US: 1/1 118/719 156/345.32 204/298.25 277/628 277/628S 29/25.01 29/428 29/592 29/650 29/729 29/809 403/288 414/217 414/217.1 414/217.100P 414/749.1 414/749.100P 414/800 414/800S 414/805 414/806 438/19 454/187 454/187P 454/187S 483/16 52/220.1 52/236.2 55/482 55/482S 700/112 700/121 700/218

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US2016358795 AA	20161208	US20160241419	20160819
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US2017316966 AA	20171102	US20170644474	20170707
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US9457442 BB	20161004	US20100691623	20100121
US9793146 BB	20171017	US20130024335	20130911
WO06138042 A2	20061228	WO2006US20463	20060526
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WO13106486 A1	20130718	WO2013US20904	20130109
WO18045179 A1	20180308	WO2017US49630	20170831

Priority:

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Probable Assignee: FUTRFAB INC

Assignee(s): (std)**:** FLITSCH FRED ; FLITSCH FREDERICK ; FUTRFAB INC ; FLITSCH FREDERICK A

Inventor(s): (std)**:** FLITSCH FREDERICK ; FLITSCH FREDERICK A

Agent(s): W P LAI AND CO; JONATHAN T KAPLAN ATTORNEY AT LAW; JOSEPH P KINCART; KINCART JOSEPH P; JOSEPH P; IDEATION LAW PLLC; KINCART JOSEPH

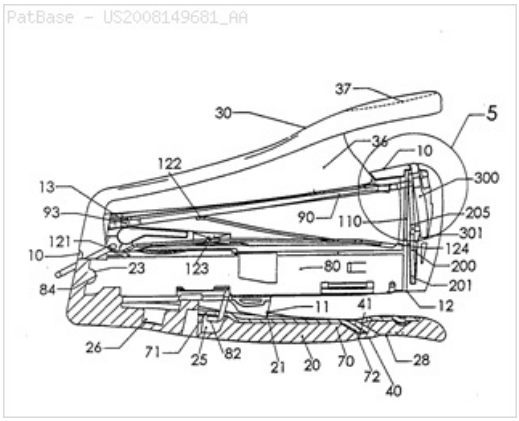
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65) Family number: 40842197 (US2008149681A) © PatBase

Title: MINI DESKTOP STAPLER

Abstract: A miniature spring-actuated stapler includes a tapered, flat power spring to store energy and eject staples. The power spring pivots at a rear of the stapler housing and includes three co-extensive arms terminating near the striker. As the L-shaped handle of the stapler is pressed, it acts on the center arm of the power spring to deflect it downward while the outer arms deflect upward. The arms are integral at a rear end and the outer arms are linked to the striker at the front. A tapered, flat reset spring disposed generally parallel to the power spring is used to reset the internal action. The housing includes open top and rear areas with the handle providing the enclosure thereof. A base assembly is slidably attached at a bottom of the stapler with an open position exposing a staple-loading chamber.

Classifications:
International (IPC 8-9): B21D11/10 B25C1/00 B25C1/04 B25C5/00 B25C5/02 B25C5/06 B25C5/10 B25C5/11 (Advanced/Invention); B21D11/00 B25C1/00 B25C5/00 (Core/Invention)
CPC: B25C5/025 B25C5/11
European: B25C5/02F3B B25C5/11
US: 227/119 227/120 227/132 227/132P 227/134 227/146 227/146S 267/158 267/239



Family:

Publication number	Publication date	Application number	Application date
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CA2831510 C	20140916	CA20072831510	20071119
CN101600542 A	20091209	CN200780050476	20071119
CN101600542 B	20110727	CN200780050476	20071119
CN102001084 A	20110406	CN201010564590	20071119
CN102001084 B	20150902	CN201010564590	20071119
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EP2574426 A3	20150805	EP20120182025	20071119
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ES2534329 T3	20150421	ES20070864618T	20071119
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US7828184 BB	20101109	US20090364245	20090202
US8668128 BB	20140311	US20100939990	20101104
WO08079558 A2	20080703	WO2007US85133	20071119
WO08079558 A3	20080828	WO2007US85133	20071119

Priority:

US20060614007 20061220
US20070938685 20071112
EP20070864618 20071119
WO2007US85133 20071119
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US20060414007 20061220
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EP20120182025 20071119
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US20090364245 20090202

Probable Assignee: WORKTOOLS INC

Assignee(s): (std): MARKS JOEL S ; WORKTOOLS INC

Assignee(s): WORKTOOLS INC CHATSWORTH ; WORKTOOLS INC20755 PLUMMER STREETCHATSWORTHCA91311US

Inventor(s): (std): MARKS JOEL S

Inventor(s): MARKS JOEL SUS ; MARKS JOEL S SHERMAN OAKS

Agent(s): SMART AND BIGGAR; MARKS AND CLERK LUXEMBOURG LLP; BHIMANI ALAN; SOMERVELL THOMAS RICHARD; VALLEJO JUAN PEDRO; FULWIDER PATTON LLP; FENG PAUL Y; PAUL Y; ECLIPSE GROUP LLP; PAUL Y FENG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW

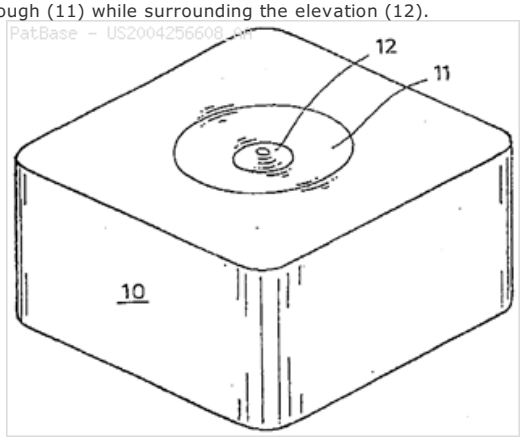
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66) Family number: 27992198 (US2004256608A)

Title: METAL CUTTING TOOL AND CUTTING PLATE PROVIDED IN THE SHAPE OF A DONUT

Abstract: The invention relates to a metal cutting tool essentially comprised of a supporting tool (13), which has a recess for accommodating a cutting plate (10). The cutting plate (10) is provided with a clamping trough (11), which is held in the supporting tool (13) by a clamping claw (16). The clamping claw (16) is fixed against the supporting tool (13) by a clamping screw (17). A pressure piece (14) is placed on the clamping claw (16) and its underside facing the cutting plate (10) is provided with a cam, which is in contact with the clamping trough (11), and the clamping claw (16) pulls the pressure piece (14) toward the clamping screw (17). According to the invention, the clamping trough (11) is provided with a circular shape and has a spherical or circular elevation (12) in the center. The cam on the pressure piece (14) consists of a circular ring (21), which is adapted thereto and rightly engages in the clamping trough (11) while surrounding the elevation (12).

Classifications:
International (IPC 8-9): B23B27/16 B23B29/12 B23C5/20 B23C5/22 B23P11/00 B23P15/28 (Advanced/Invention);
B23B27/16 B26D1/00 (Advanced/Non-invention);
B23B27/16 B23C5/16 B23P15/28 (Core/Invention)
International (IPC 1-7): B23B27/16 B32B27/16 B66D3/06
CPC: B23B27/1625 B23B27/1629 B23B27/1644 Y10T29/49948 Y10T407/2282 Y10T407/2286 Y10T407/23
European: B23B27/16D1 B23B27/16F
US: 1/1 254/401 29/525.02 29/525.020S 407/107 407/107P 407/109 407/113 407/113P 407/113S



Family:

Publication number	Publication date	Application number	Application date
AT392969 E	20080515	AT20020764523T	20020719
AT424953 E	20090315	AT20020010335T	20020719
BRPI0211463 A	20040817	BR2002PI11463	20020719
BRPI0211463 B1	20111004	BR2002PI11463	20020719
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Priority:

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Probable Assignee: CERAMTEC GMBH

Assignee(s): (std): CERAMTEC AG ; CERAMTEC AG INNOV CERAMIC ENG ; CERAMTEC AG INNOVATIVE CERAMIC ENGINEERING ; EDER OTTO ; ZITZLAFF WOLFGANG ; INNOVATIVE CERAMIC ENGINEERING ; CERAM GMBH ; CERAM TEC AG INNOVATIVE CERAMI ; CERAM TEC INNOVATIVE CERAMI AG ; CERAMTEC GMBH ; CERAMTEC INNOV CERAMIC ENG AG

Assignee(s): DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; CERAM TEC INNOVATIVE CERAMIC ENGINEERING AG ; CERAM TEC AG INNOVATIVE CERAMIC ENGINEERING ; CERAMTEC INNOVATIVE CERAMIC ENGINEERING AG ; INNOVATIVE CERAMIC ENGINEERING CERAMTEC AG ; CERAMTECH AG

Inventor(s): (std): EDER O ; EDER OTTO ; OTTO EDER ; ZITZLAFF W ; ZITZLAFF WOLFGANG ; WOLFGANG ZITZLAFF ; W ZITZLAFF ; O EDER

Agent(s): ROBIC; SCHERZBERG ANDREAS HANS; SCHERZBERG ANDREAS HANS ET AL; REINHOLD COHN AND PARTNERS; FULBRIGHT AND JAWORSKI LLP; FULBRIGHT AND JAWORSKI L L P; NORTON ROSE FULBRIGHT US LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

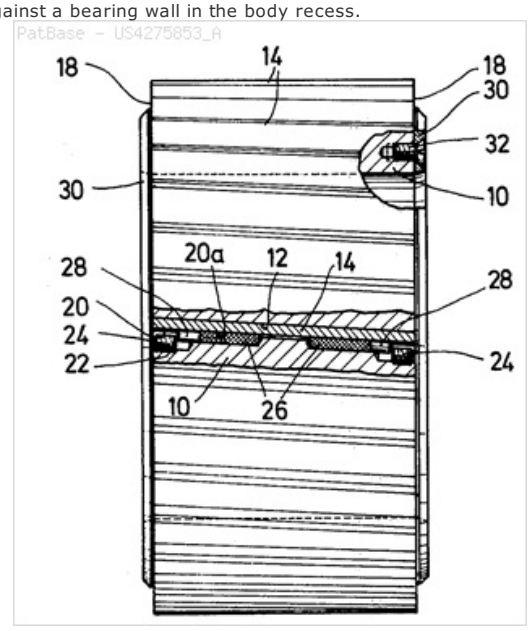
67) Family number: 1729201 (US4275853A)

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Title: CUTTING TOOL

Abstract: The invention relates to a cutting tool having a supporting body with a recess holding at least one striplike cutting element and an adjacent cavity intersecting the recess holding a deformable clamping body, a thrust piece and a tightening means. The tightening means applies pressure to the thrust piece which forces the deformable clamping body to fill the cavity and transmit pressure to the cutting element and clamp the same against a bearing wall in the body recess.

Classifications:
International (IPC 8-9): B02C18/18 B23C5/04 B26D7/26 (Advanced/Invention); B02C18/06 B23C5/02 B26D7/26 (Core/Invention)
International (IPC 1-7): B02C1/10 B02C18/18 B23C5/08 B26D1/12 B26D7/26 B27G13/00 B27G13/02 B29B1/12
CPC: Y10T407/1906 Y10T407/194 B02C18/186 B26D7/2614
European: B02C18/18E B26D7/26B
US: 144/230 241/294 407/33 407/50



Family:

Publication number	Publication date	Application number	Application date
DE2829732 A1	19800117	DE19782829732	19780706
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US4275853 A	19810630	US19790054789	19790705

Priority:

DE19782829732 19780706

Probable Assignee: SCHEER AND CIE C F

Assignee(s): (std): KREUZ ULRICH H ; SCHEER AND CIE C F ; WENDEL KURZ H

Assignee(s): C F SCHEER AND CIE GMBH AND CO ; CF SCHEER AND CIE GMBH AND CO ; CFSCHEER AND CIE GMBH AND CO ; CFSCHEER AND CIE GMBH AND CO A CORP OF WEST GERMAN ; CFSCHEER AND CIE GMBH AND CO A CORP OF WEST GERMANY

Inventor(s): (std): KREUZ ULRICH ; WENDEL KURT ; WENDEL KURZ H ; KREUZ ULRICH H ; URURIHI KUROITSU ; KURUTO BUENDERU

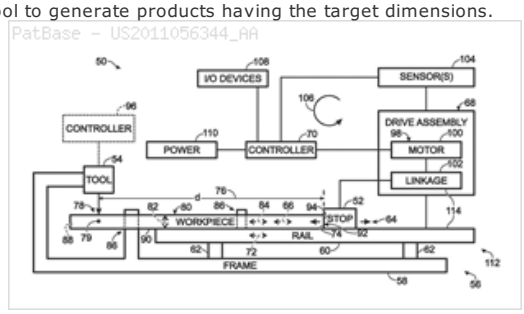
68) Family number: 47845202 (US2011056344A)

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Title: GAUGE SYSTEM FOR WORKPIECE PROCESSING

Abstract: Gauge system, including methods and apparatus, for positioning workpieces according to entered and/or calculated target dimensions and processing the workpieces with a tool to generate products having the target dimensions.

Classifications:
International (IPC 8-9): B23D45/14 B23D47/02 B23D59/00 B23Q16/00 B23Q17/22 B26D5/00 B26D7/00 B27B31/06 G05B19/18 G05B19/402 G06F19/00 (Advanced/Invention)
CPC: G05B19/402 G05B2219/34286 G05B19/18 B23D45/14 B23D47/025 B23D59/001 B27B31/06 Y10T83/04 Y10T83/148 Y10T83/162 Y10T83/18 Y10T83/5815 Y10T83/7593
European: B23D45/14 B23D47/02B B23D59/00B B27B31/06
US: 700/114 700/180 700/186 83/13 83/13P 83/391 83/467.1 83/74 83/74S 83/76.1 83/76.9



Family:

Publication number	Publication date	Application number	Application date
CA2793433 AA	20120917	CA20102793433	20100609
CA2793433 C	20160412	CA20102793433	20100609
EP2440356 A1	20120418	EP20100786813	20100609
EP2440356 A4	20170524	EP20100786813	20100609
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US2013211576 AA	20130815	US20120659818	20121024
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US8783140 BB	20140722	US20100797581	20100609
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WO10144630 A1	20101216	WO2010US38047	20100609

Priority:

US20090185553P 20090609 US20100352259P 20100607 US20100797581 20100609
WO2010US38047 20100609 US20120659818 20121024 US20140337096 20140721

Probable Assignee: LEAN TOOL SYSTEMS LLC

Assignee(s): (std): ALDRICH STUART R ; DICK SPENCER B ; GILMORE RICHARD R ; GORNY NORMAN F ; HARRIS MATTHEW T ; VAUGHN BRANDON J ; LEAN TOOL SYSTEMS LLC ; LEE DAVID L ; MCCLURE BRENNAN J ; SOOT SIMON A ; PREC AUTOMATION INC

Assignee(s): PRECISION AUTOMATION INC

Inventor(s): (std): DICK SPENCER B ; ALDRICH STUART R ; GILMORE RICHARD R ; LEE DAVID L ; MCCLURE BRENNAN J ; GORNY NORMAN F ; HARRIS MATTHEW T ; SOOT SIMON A ; VAUGHN BRANDON J

Agent(s): SMART AND BIGGAR; SCHAEBERLE STEFFEN; KOLISCH HARTWELL PC; HOLLENBERG STANLEY M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

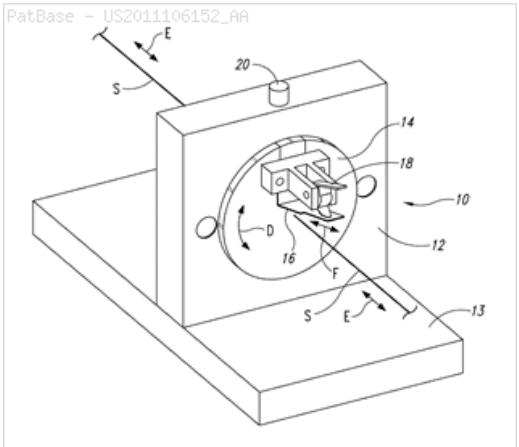
69) Family number: 43570202 (US2011106152A)

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Title: APPARATUS AND METHOD FOR FORMING SELF-RETAINING SUTURES

Abstract: An apparatus and method for cutting retainers on a continuous strand is provided. The apparatus may include a rotary head member configured to be rotatably driven about a longitudinal axis. The rotary head member may include a center hole substantially coincident with the longitudinal axis and configured to receive the strand. A retainer forming member may be supported on the rotary head member and may include a cutting edge directed substantially inward toward the longitudinal axis. When the rotary head member rotates about the longitudinal axis and the strand is continuously pulled through the center hole along the longitudinal axis, the cutting edge may intermittently or continuously cuts retainers about an outer surface of the strand.

Classifications:
International (IPC 8-9): A61B17/03 A61B17/04 A61B17/06 A61B17/064 B26D3/08 (Advanced/Invention); A61B17/00 A61B17/06 (Advanced/Non-invention); A61B17/03 A61B17/04 A61B17/06 A61B17/064 (Core/Invention)
CPC: A61B17/06166 A61B2017/00526 A61B2017/06176 Y10T83/0341 Y10T83/0393 Y10T83/04
European: A61B17/06S K61B17/00M K61B17/06S4
US: 606/228 606/228P 83/13 83/880 83/880S 83/887 83/887S



Family:

Publication number	Publication date	Application number	Application date
EP2242430 A2	20101027	EP20090705682	20090130
EP2242430 A4	20150729	EP20090705682	20090130
EP2242430 B1	20160817	EP20090705682	20090130
ES2602570 T3	20170221	ES20090705682T	20090130
US2011106152 AA	20110505	US20090865290	20090130

US8875607 BB	20141104	US20090865290	20090130
WO09097556 A2	20090806	WO2009US32693	20090130
WO09097556 A3	20091022	WO2009US32693	20090130

Priority:

US20080006777P 20080130 EP20090705682 20090130 WO2009US32693 20090130
US20090865290 20090130

Probable Assignee: ANGIOTECH PHARMACEUTICALS INC

Assignee(s): (std): KOZLOWSKI MARTIN J ; ETHICON INC ; ETHICON LLC ; ANGIOTECH PHARM INC

Assignee(s): ANGIOTECH PHARMACEUTICALS INC ; ANGIOTECH PHARMACEUTICALS US INC ; BG SULZLE INC ; MANAN MEDICAL PRODUCTS INC ; MEDICAL DEVICE TECHNOLOGIES INC ; SURGICAL SPECIALTIES CORP ; WELLS FARGO CAPITAL FINANCE LLC ADMINISTRATIVE AGENT AS ; WELLS FARGO FOOTHILL LLC AGENT AS ; WELLS FARGO CAPITAL FINANCE LLC ADMINISTRATIVE AGE ; QUILL MEDICAL INC ; AMERICAN MEDICAL INSTRUMENTS HOLDINGS INC ; ANGIOTECH AMERICA INC ; ANGIOTECH BIOCOATINGS CORP ; ANGIOTECH INT HOLDINGS CORP

Inventor(s): (std): KOZLOWSKI MARTIN J

Agent(s): GOWSHALL JONATHAN VALLANCE; SMALL GARY JAMES; IZQUIERDO MARIA ALICIA; MCMASTERS DAVID D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

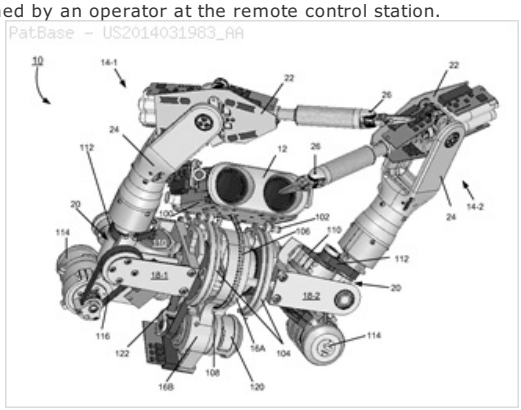
70) Family number: 51991202 (US2014031983A)

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Title: DEXTEROUS TELEMANIPULATOR SYSTEM

Abstract: A robotic manipulator has a body and a stereoscopic video system movably coupled to the body. The stereoscopic vision system produces a stereoscopic video of an environment of the robotic manipulator. The robotic manipulator also includes two independently remotely controlled arms coupled to opposite sides of the body. Each arm moves in proprioceptive alignment with the stereoscopic video produced by the stereoscopic video system in response to commands received from a remote control station based on movements performed by an operator at the remote control station.

Classifications:
International (IPC 8-9): B25J13/02 B25J13/08 B25J15/00 B25J15/08 B25J17/00 B25J19/00 B25J19/02 B25J9/00 B25J9/06 B25J9/16 F16H21/40 G05B19/04 G05B19/18 H02N13/00 (Advanced/Invention)
CPC: B25J9/161 B25J19/00 Y10S294/907 Y10S901/39 B25J15/0009 B25J15/0085 B25J9/06 H02N13/00 B25J15/083 B25J15/0028 F16H21/40 B25J17/00 B25J15/08 Y10T74/20323 B25J9/0087 B25J9/1689 B25J13/025 B25J19/023
European: B25J15/00B B25J15/08L
US: 1/1 192/84.4 294/111 294/200 294/213 294/907 361/234 700/257 700/259 74/490.04 901/39



Family:

Publication number	Publication date	Application number	Application date
EP2688717 A2	20140129	EP20120760592	20120321
EP2688717 A4	20150107	EP20120760592	20120321
EP2688720 A2	20140129	EP20120760628	20120321
EP2688720 A4	20150415	EP20120760628	20120321
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WO12129254 A3	20130103	WO2012US29860	20120321

Priority:

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US20140458283 20140813 US20150745668 20150622 JP20160198827 20161007
JP20160217140 20161107

Probable Assignee: SRI INT

Assignee(s): (std): AUKES DANIEL ; CHAVEZ BRYAN ; COWAN CREGG ; GARCIA PABLO E ; KIM SUSAN ; KNOTH BRUCE H ; STANFORD RES INST INT ; LOW THOMAS P ; PRAHLAD HARSHA ; KORNBLUH ROY D ; KOMBLUH ROY D

Assignee(s): SRI INTERNATL ; SRI INT ; SRI INTERNATIONAL

Inventor(s): (std): CHAVEZ BRYAN ; KNOTH BRUCE H ; COWAN CREGG ; LOW THOMAS P ; GARCIA PABLO E ; KOMBLUH ROY D ; BRUCE H KNOTH ; BRYAN CHAVEZ ; CREGG COWAN ; ROY D KORNBLUH ; THOMAS P LOW ; HARSHA PRAHLAD ; DANIEL AUKES ; PABLO E GARCIA ; KORNBLUH ROY D ; AUKES DANIEL ; PRAHLAD HARSHA ; KIM SUSAN

Agent(s): SUER STEVEN JOHANNES; SCHMEISER OLSEN AND WATTS; MICHAEL; SCHMEISER OLSEN AND WATTS LLP; RODRIGUEZ MICHAEL A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

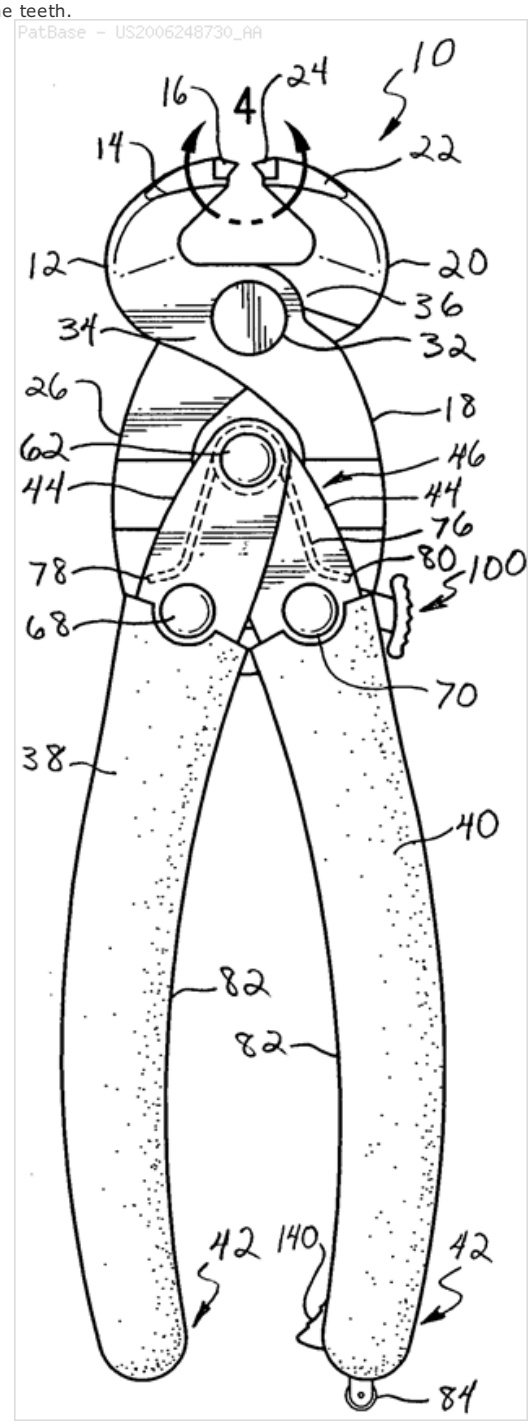
71) Family number: 33603204 (US2006248730A)

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Title: TILE NIPPERS

Abstract: Tile nippers are provided with hardened teeth formed with a short radius curvature extending from substantially flat interior shoulders configured to be substantially parallel when used for gripping and breaking tile. A compound leverage assembly connects the jaws of the tile nippers to the handles of the tile nippers. A retractable cutter or scoring wheel may be provided in a free end of a handle. A nail puller notch may be provided on a jaw of the tile nippers to allow the tile nippers to be used for gripping and pulling nails without damaging the tips of the teeth.

Classifications:
International (IPC 8-9): B26B17/00 (Advanced/Invention); B26B17/00 (Core/Invention)
CPC: B25B7/14 B25B7/22 B26B17/006 B26B17/02 B28D1/225
European: B25B7/14 B25B7/22 B26B17/00B B26B17/02 B28D1/22D
US: 30/175 30/175P



Family:

Publication number	Publication date	Application number	Application date
US2006248730 AA	20061109	US20050125845	20050509

Priority:

US20050125845 20050509

Probable Assignee: CUSTOM BUILDING PRODUCTS

Assignee(s): (std)**:** HILL NORMAN L ; MILLER JON ; TRACY NORMAN C

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; CUSTOM BUILDING PRODUCTS

Inventor(s): (std)**:** HILL NORMAN L ; MILLER JON ; TRACY NORMAN C

Inventor(s): HILL NORMAN ; TRACY NORMAN

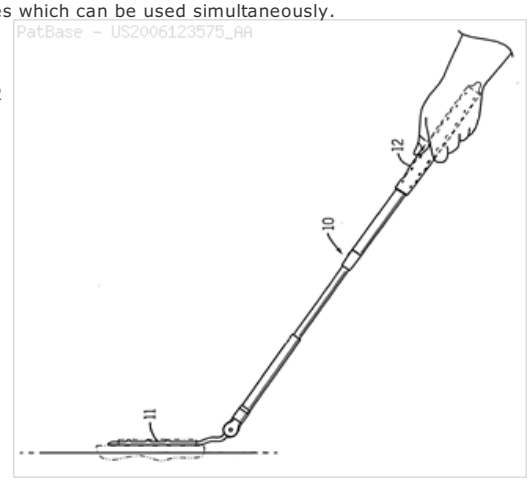
Agent(s): FULWIDER PATTON

72) Family number: 33074209 (US2006123575A)

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Title: ADJUSTABLE HOLDER FOR CLEANING IMPLEMENT

Abstract: A dusting device is disclosed. There is a telescoping handle, a shank mountable to the handle, and a supporting fork mounted to the shank for relative rotation with respect thereto. A cleaning sleeve is replaceably mountable on the fork for single use dusting purposes. The angle of the fork with respect to the telescoping handle can be releasably fixed by a catch mechanism. While the catch is sufficiently strong to resist angle adjustment during normal dusting, it permits the angle to be adjusted by firmly pressing the end of the fork (with or without the sleeve thereon) against a wall while holding the distal end of the telescoping handle. This converts the duster from a wall duster, to a duster capable of cleaning the tops of ceiling fan blades, without the need for a consumer to touch a portion of the device near the duster head. In another aspect the device has two such adjustable forks for holding two such sleeves which can be used simultaneously.



Classifications:

International (IPC 8-9): A46B11/00 A46B11/02 A46B5/02 A46B5/06 A47L1/08 A47L13/00 A47L13/10 A47L13/16 A47L13/17 A47L13/20 A47L13/22 A47L13/24 A47L13/255 A47L13/26 A47L13/38 A47L13/42 A47L13/44 A47L13/46 A47L17/08 A47L25/00 A47L4/02 B05B9/04 B05C17/00 B08B1/00 B08B3/04 B08B7/00 B08B9/00 B25G1/04 B25G3/00 B25G3/38 B32B27/14 B32B5/26 B43K5/14 B44D5/00 B46B11/00 B65D71/00 C11D17/04 D04H13/00 (Advanced/Invention); B05B11/00 C11D3/20 (Advanced/Non-invention); A46B11/00 A46B5/00 A47L1/00 A47L13/00 A47L13/10 A47L13/16 A47L13/20 B05B9/04 B05C17/00 B08B1/00 B08B7/00 B08B9/00 B25G1/00 B25G3/00 B32B27/14 B32B5/22 B43K5/00 C11D17/04 (Core/Invention)

International (IPC 1-7): A47L13/17 A47L13/22 B08B1/00

CPC: A47L13/46 A46B5/0087 A46B7/04 A46B11/0017 A46B2200/3026 A46B2200/3033 A47K11/10 A47L13/24 A47L13/44 A46B5/0025 B25G1/06 A46B7/023 B25G1/04 B25G3/18 A47L13/42 A46B3/00 A46B5/0033 A46B5/0041 A46B5/0075 A46B5/0083 B25G3/38 C11D17/049 A46B11/0006 A46B11/0062 A46B11/0065 A47L13/17 A47L13/26 B05B11/30 B08B1/00 B08B3/04 C11D3/2017 Y10T428/24826 A47L13/16 A47L13/20 A47L13/38 B32B5/022 B32B5/147 B32B5/26 B32B2250/20 B32B2432/00 D04H11/00 Y10T442/60 Y10T442/659

European: A46B11/00B A46B11/00C10 A46B11/00C5 A46B11/00C8 A46B3/00 A46B5/00B1 A46B5/00B2 A46B5/00B2B A46B5/00B6C A46B5/00B6C4 A46B5/00B6C6 A46B7/02A A46B7/04 A47K11/10 A47L13/16 A47L13/17 A47L13/20 A47L13/24 A47L13/26 A47L13/38 A47L13/42 A47L13/44 A47L13/46 B08B1/00 B08B3/04 B25G1/04 B25G1/06 B25G3/18 B25G3/38 B32B5/02A B32B5/14D B32B5/26 C11D17/04F D04H11/00 D04H13/00B2 K46B11/00B K46B200/30D K46B200/30E K46B5/00B1 L05B11/30 L32B250/20 L32B432/00 M11D3/20B1B

US: 134/6 134/6P 15/104.93 15/114 15/114S 15/144.1 15/144.100P 15/144.100S 15/144.4 15/144.400P 15/144.400S 15/147.2 15/209.1 15/209.100P 15/209.100S 15/210.1 15/210.100P 15/210.100S 15/226 15/226S 15/228 15/229.3 15/229.300S 15/229.6 15/229.600S 15/229.8 15/234 206/229 401/118 401/118S 401/123 401/123P 401/123S 401/134 401/136 401/136P 401/136S 401/138 401/138P 401/139 401/140 401/188.00RS 401/188R 401/190 401/190S 401/261 401/268 401/284 401/284S 428/198 428/198S 442/327 442/327S 442/381

Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20040011404 20041214 US20050045204 20050128 US20050106960 20050415
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WO2007US00599	20070110	WO2007US00601	20070110	US20070750204	20070517
US20110013264	20110125	US20110115360	20110525	US20140310732	20140620

Probable Assignee: SC JOHNSON AND SON INC

Assignee(s): (std): MODERWELL JOHN W ; PETERSON CHRISTOPHER ; OLSON SCOTT A ; MARAIA MICAH L ; MILLER BENN B ; MARTINEAU ROB ; MILLER BENN BEAGAN ; PETERSON CHRISTOPHER L ; MUNSINGER AARON J ; PETERSON CHRIS L ; MOODYCLIFFE TIMOTHY I ; S C JONHSON AND SON INC ; CHAFFEE TIMOTHY L ; ERICKSON MILT ; FALENDYSZ GREGORY ; FENSKE LAWRENCE J ; KUNKLER JEFFREY S ; GIPP MARK M ; HOADLEY DAVID A ; HEMBER MILES WILLIAM NOEL ; KNOPOW JEREMY F ; GRACINDO YAN ; GRACINDO YAN MARIUNS DA CUNHA ; KLUNKER JEFFREY S ; JOHNSON AND SON INC S C ; WIETFELDT JOHN R ; ZACH STEVEN A ; WANG TIANZHU ; SMITS CHRISSIE M ; TAYLOR JAMES W II ; SIMPSON PAUL ; SHIESLEY CRAIG F ; GROVER SIMON RODERICK ; MALONEY MICHAEL J ; SCHWARZ RALPH ; MASSING SCOTT ; ASKLING KEVIN L ; TAYLOR JAMES W III ; THURIN MATTHEW N ; WHITE MATTHEW CHARLES ; TAYLOR II JAMES W

Assignee(s): SCIENTIFIC GENERICS LTD ; SCJOHNSON AND SON INC ; BIT 7 INC ; BIT7 INC ; SC JOHNSON AND SON INC ; TAYLOR JAMES W ; INTEGRATED DESIGN SOLUTIONS LLC ; S C JOHNSON AND SON INC ; MADISON CAPITAL FUNDING LLC AS AGENT ; RADIUS PRODUCT DEVELOPMENT ; MW ERICKSON SALES AND CONSULTING LTD ; MADISON CAPITAL FUNDING LLC AGENT AS ; PROVITA CUISINE LLC ; RADIUS PRODUCT DEVELOPMENT INC ; SC JOHNSON AND SON INC RACINE

Inventor(s): (std): ASKLING KEVIN L ; CHAFFEE TIMOTHY L ; FALENDYSZ GREGORY ; FENSKE LAWRENCE J ; GRACINDO YAN ; GRACINDO YAN MARIUNS DA CUNHA ; GROVER SIMON R ; GROVER SIMON RODERICK ; HOADLEY DAVID A ; KUNKLER JEFFREY S ; MALONEY MICHAEL J ; MASSING SCOTT ; MILLER BENN B ; MILLER BENN BEAGAN ; MUNSINGER AARON J ; NOEL HEMBER MILES WILLIAM ; PETERSON CHRIS L ; SHIESLEY CRAIG F ; SIMPSON PAUL ; SMITS CHRISSIE ; SMITS CHRISSIE M ; PETERSON CHRISTOPHER L ; SCHWARZ RALPH ; SCOTT MASSING ; TIANZHU WANG ; WANG TIAN ZHU ; WANG TIANZHU ; PETERSON CHRISTOPHER ; PETERSON CHRIS ; OLSON SCOTT A ; OLSON SCOTT ; MUNSINGER AARON ; MARTINEAU ROB ; MARAIA MICAH L ; MARAIA MICAH ; KNOPOW JEREMY F ; KNOPOW JEREMY ; KLUNKER JEFFREY ; GIPP MARK ; ERICKSON MILT ; ZACH STEVEN ; TAYLOR JAMES W ; TAYLOR II JAMES W ; TAYLOR JAMES W II ; WHITE MATTHEW C ; WHITE MATTHEW CHARLES ; WIETFELDT JOHN R ; ZACH STEVEN A ; MODERWELL JOHN W ; KLUNKER JEFFREY S ; HOADLEY DAVID ; ZACH STEPHEN A ; THURIN MATTHEW N ; MOODYCLIFFE TIMOTHY I ; HEMBER MILES WILLIAM NOEL ; GIPP MARK M ; TAYLOR JAMES W III

Inventor(s): ASKLING KEVIN ; THE DESIGNATION OF THE INVENTOR HAS NOT YET... ; CHRIS L PETERSON ; AARON J MUNSINGER ; JEREMY F KNOPOW ; JEFFREY S KLUNKER ; MICAH L MARAIA ; ZACH STEVEN A RACINE ; ZACH STEPHEN A WATERFORD ; WIETFELDT JOHN ; TAYLOR JAMES WII ; SCOTT A OLSON ; WANG TIANZHU CHICAGO ; WHITE MATTHEW ; SHIESLEY CRAIG ; SMITS CHRISSIE M MILWAUKEE ; SMITS CHRISSIE M OAK CREEK ; STEVEN A ZACH ; TAYLOR JAMES ; PETERSON CHRIS L CHIPPEWA FALLS ; OLSON SCOTT A CHIPPEWA FALLS ; MUNSINGER AARON J COLD SPRING ; MODERWELL JOHN ; MASSING SCOTT CHICAGO ; MILES WILLIAM NOEL HEMBER ; MILLER BENN ; MARAIA MICAH L MENOMONIE ; MARK M GIPP ; KUNKLER JEFFREY S CHICAGO ; MALONEY MICHAEL ; HOADLEY DAVID A RACINE ; JEFFREY S KUNKLER ; KLUNKER JEFFREY S CHICAGO ; KNOPOW JEREMY F BURLINGTON ; KUNKLER JEFFREY ; HEMBER MILES WILLIAM NOEL CAMBRIDGE ; GROVER SIMON ; GIPP MARK M RACINE ; FENSKE LAWRENCE ; CHRISSIE M SMITS ; DAVID A HOADLEY ; CHAFFEE TIMOTHY

Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP; BERESKIN AND PARR LLP SENCRL SRL; BERESKIN AND PARR; RUSCHKE HARTMANN MADGWICK AND SEIDE PATENT U RECHTSANWAELTE; RUSCHKE MADGWICK SEIDE AND KOLLEGEN PATENTANWAELTE PATENT ATTORNEY UK PARTG MBB; RUSCHKE HANS EDVARD; RUSCHKE HANS EDVARD ET AL; ROBERT A MILLER SC JOHNSON AND SON INC; SC JOHNSON AND SON INC; BOYLE FREDRICKSON SC; MILLER ROBERT A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

73) Family number: 51095209 (US2015020301A)

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Title: TOILET PAN BODY AND ITS METHOD OF MANUFACTURING

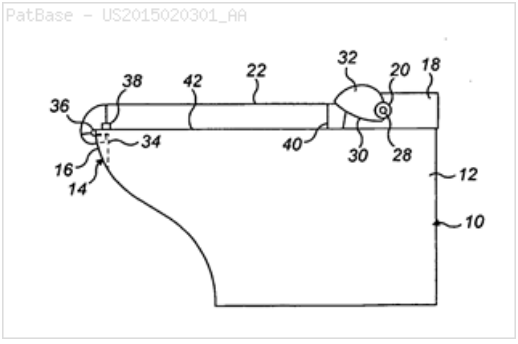
Abstract: A ceramic toilet pan having a raised rear portion to which a hinge tube may be accurately located and fixed in position for example by adhesive using a jig despite variations in pan body size due to ceramic firing, a water pump and air pump being provided for flushing the toilet pan when a seat and lid are in a closed position. The seat and lid are rotationally mounted to the pan by a horizontal hinge pin located in the hinge tube and a latch member is provided for latching the lid and seat closed. A cistern is also provided having an overflow weir.

Classifications:

International (IPC 8-9): A47K A47K13/10 A47K13/12 A47K13/24 A47K13/26 A47K13/30 B25B13/48 B32B37/12 B32B38/00 E03D E03D1/00 E03D1/012 E03D1/08 E03D1/32 E03D11/00 E03D11/02 E03D11/13 E03D3/10 E03D5/01 E03D5/02 E03D9/05 E03F E03F1/00 E21B43/12 (Advanced/Invention);
A47K13/26 (Core/Invention)

CPC: A47K13/12 E03D1/00 E03D1/08 E03D1/087 E03D11/13 E03D1/012 A47K13/242 A47K13/26 E03D1/32 E03D5/01 E03F1/006 Y10T29/4943 Y10T156/10 A47K13/105 E03D5/024 B25B13/48 E03D5/10 E03D9/00 B25B27/14 E03D2201/40 B32B37/12 B32B38/0036 B32B2315/02 E03D11/02 E21B43/12 E03D5/00 A47K13/30 A47K13/24 E03D11/00 A47K13/04 E03D9/052 Y02A10/34 E03D9/05

US: 156/60 156/89.11 29/890.141 4/420



Family:

Publication number	Publication date	Application number	Application date
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GB2553054 A1	20180221	GB20170015485	20120301
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US2015020301 AA	20150122	US20130382226	20130301
US2018087251 AA	20180329	US20170828020	20171130
US9834917 BB	20171205	US20130382226	20130301
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Priority:

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Probable Assignee: PHOENIX PRODUCT DEVELOPMENT LTD

Assignee(s): (std): PHEONIX PRODUCT DEVELOPMENT LTD ; PHOENIX PRODUCT DEV LTD ; PHOENIX PRODUCT DEVELOPMENT LTD ; PHOENX PRODUCT DEV LMTED

Assignee(s): MOORE GARRY ; PHOENIX PRODUCT DEVELOPMENT LTDUNIT 1 WEST POINT11 DURHAM ROADESSEX SS15 6PHBASILDONGB ; PHOENIX PRODUCT DEVELOPMENT LIMITED

Inventor(s): (std): MOORE GARY ; MOORE GARRY ; GARRY MOORE

Inventor(s): MOORE GARRYGB ; GARY MOORE

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MILLER JAMES LIONEL WOOLVERTON; KITA AOYAMA INT PATENT BUREAU; BROOKS KUSHMAN PC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

74) Family number: 59879212 (US2015202744A)

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Title: FLOATING JAW ASSEMBLY FOR USE WITH MACHINIST VISES

Abstract: An improved floating jaw assembly to a machinist vise assembly capable of holding a plurality of individual workpieces, the vise assembly generally including a base with a way or ways, a fixed jaw mounted on the ways, at least one movable jaw slidably mounted on the ways to move toward and away from the fixed jaw on a longitudinal axis in such a manner that at least one workpiece can be securely held between the fixed jaw and the at least one movable jaw, and a mechanism for moving the movable jaw toward and away from the fixed jaw to clamp and unclamp workpieces. The floating jaw assembly includes at least one floating jaw plate attached to the vise assembly by means of mounting pins and openings in the floating jaw plates for adjustable movement of the floating jaw plates along the longitudinal axis of the vise assembly and for articulated movement of the floating jaw plates in a plane substantially parallel to the base of the vise assembly and about an axis perpendicular to the longitudinal axis of the vise assembly so that the floating jaw plates can, in cooperation with adjoining jaws or plates, adjust to and securely hold workpieces. In addition, the floating jaw assembly includes a means of forcing the at least one floating jaw plate downward and securely against the ways of the vise assembly as the at least one movable jaw moves toward the fixed jaw, along with the intermediary at least one floating jaw plate, when clamping a

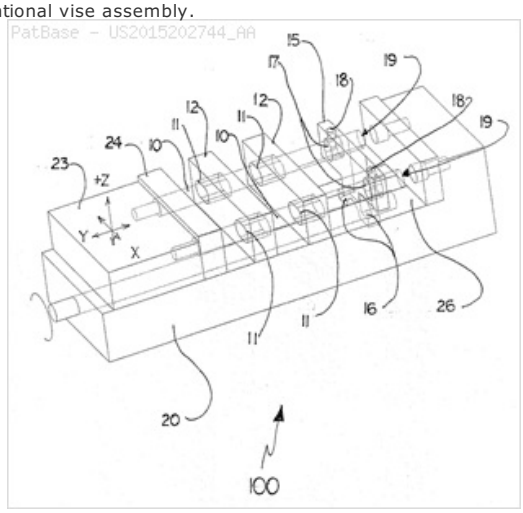
workpiece. The floating jaw plates can be bisected longitudinally so that each bisected jaw plate can move independently of the bisected jaw plate and allow for even greater adjustable and articulated movement of each bisected floating jaw plate. The floating jaw assembly can be added as an accessory to a conventional vise assembly.

Classifications:

International (IPC 8-9): B25B1/02 B25B1/04 B25B1/10 B25B1/24 (Advanced/Invention); B25B1/02 B25B1/04 (Advanced/Non-invention)

CPC: B25B1/2452 B25B1/2478 B25B1/02 B25B1/04 B25B1/103 B25B1/125

US: 269/153 269/271



Family:

Publication number	Publication date	Application number	Application date
US2015202744 AA	20150723	US20150603092	20150122
US2018141187 AA	20180524	US20170817324	20171120
US2019054597 AA	20190221	US20180105063	20180820
US9849565 BB	20171226	US20150603092	20150122

Priority:

US20140930085P 20140122 US20140011183P 20140612 US20140080683P 20141117
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US20180105063 20180820

Probable Assignee:	HOPEY TIMOTHY
Assignee(s): (std):	HOPEY TIMOTHY
Assignee(s):	SVECONEK LLC
Inventor(s): (std):	HOPEY TIMOTHY
Agent(s):	DAVID G

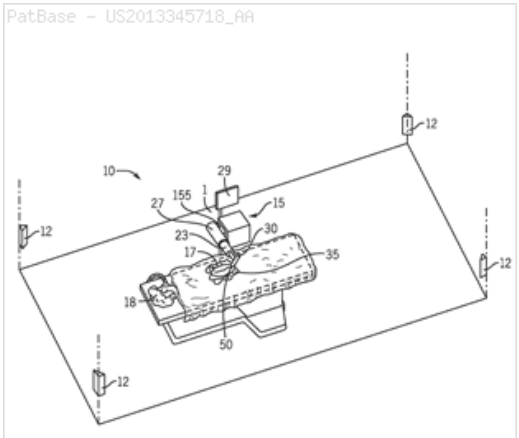
75) Family number: 55408213 (US2013345718A)

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Title: SURGICAL ROBOT PLATFORM

Abstract: A medical robot system, including a robot coupled to an effectuator element with the robot configured for controlled movement and positioning. The system may include a transmitter configured to emit one or more signals, and the transmitter is coupled to an instrument coupled to the effectuator element. The system may further include a motor assembly coupled to the robot and a plurality of receivers configured to receive the one or more signals emitted by the transmitter. A control unit is coupled to the motor assembly and the plurality of receivers, and the control unit is configured to supply one or more instruction signals to the motor assembly. The instruction signals can be configured to cause the motor assembly to selectively move the effectuator element and is further configured to (i) calculate a position of the at least one transmitter by analysis of the signals received by the plurality of receivers; (ii) display the position of the at least one transmitter with respect to the body of the patient; and (iii) selectively control actuation of the motor assembly in response to the signals received by the plurality of receivers.

Classifications:



International (IPC 8-9): A61B A61B10/02 A61B17/00 A61B17/02 A61B17/16 A61B17/17 A61B17/3201 A61B17/3213 A61B17/34 A61B17/56 A61B17/70 A61B17/88 A61B19/00 A61B34/00 A61B34/10 A61B34/20 A61B34/30 A61B34/32 A61B34/35 A61B46/20 A61B5/00 A61B5/055 A61B5/06 A61B50/13 A61B6/00 A61B6/03 A61B6/08 A61B6/12 A61B8/00 A61B8/08 A61B8/14 A61B90/00 A61B90/11 A61B90/14 A61B90/50 A61B90/90 A61B90/96 A61B90/98 A61F2/44 A61F2/46 A61M5/172 A61N1/05 B25J13/06 B25J13/08 B25J15/00 B25J15/04 B25J19/02 B25J3/00 B25J9/02 B60W30/08 B60W30/095 G01B11/00 G01C21/28 G01C21/34 G01S17/74 G01S17/88 G01S5/16 G01S7/486 G05D1/02 G06F3/0346 G06T G06T19/20 G06T3/00 G06T7/00 G06T7/30 G06T7/33 G06T7/66 G06T7/73 G08G1/16 (Advanced/Invention); A61B10/02 A61B17/00 A61B17/16 A61B17/17 A61B34/00 A61B34/10 A61B34/20 A61B34/30 A61B34/32 A61B90/00 A61B90/11 A61B90/14 B25J9/16 (Advanced/Non-invention)

CPC: A61B17/7002 A61B2090/363 G01S5/16 B25J9/1697 A61B6/032 A61B6/12 A61B2034/305 A61B2034/2074 A61B5/0059 A61B2034/2068 A61B5/062 A61B90/98 A61B6/485 A61B6/547 A61B2034/2065 G06T2207/10004 G06T2207/10012 G06T2207/10081 G06T2207/10088 G06T2207/30204 G06T7/30 A61B90/06 A61B2090/061 A61B2090/062 A61B2034/2059 A61B2090/373 A61B6/58 A61B6/461 A61B6/469 A61B2017/00477 A61B2090/3987 A61B2090/3916 A61B2017/00119 A61B2505/05 A61B2017/00203 A61B2017/00207 A61B10/0233 A61B34/10 A61B46/20 A61B50/13 A61B10/02 A61M5/172 A61B2090/365 A61B2090/3762 A61B17/8819 A61F2/4601 A61B2090/3995 A61B2090/3991 A61B17/1626 A61B17/8875 A61B2017/00115 A61B2562/02 A61B2017/00022 G01S7/4865 G01S17/74 A61B2090/376 A61B2034/101 A61B2090/364 B25J13/089 A61B90/37 A61B2034/2051 A61B2034/2057 A61B2090/3966 A61B2034/107 A61B34/25 G01S17/66 A61B5/066 A61B10/0275 A61B34/32 A61B90/14 A61B2010/0208 A61B2017/0256 A61B2034/301 A61B2090/374 A61B2090/378 A61B2090/3975 A61N1/0529 G06T2207/10072 G06T2207/10116 G06T2207/20092 G06T2207/30052 A61B5/061 A61B46/00 A61B17/3213 A61B2017/32113 A61B2017/00199 A61B2017/00734 G05B2219/45117 A61B2090/064 A61B2090/066 A61B17/320016 A61B17/3201 A61B17/3211 A61B17/3421 G06T7/33 A61B2017/00176 A61B17/3403 A61B17/0206 A61B2090/0818 A61B34/71 A61B17/7035 A61M29/00 A61B17/02 A61B2017/00398 A61B17/1642 A61B17/1671 A61F2/4455 A61B17/025 A61B90/90

A61B2034/2072 A61B17/7082 A61B34/70 A61B34/74 A61B34/76 A61B2034/741 A61B2034/742 A61B2034/743 A61B2034/744 A61B2090/3764 A61B2090/3941 A61B2090/395 A61B2090/3979 A61B17/00 B25J15/0491 B25J15/0052 A61B2034/2046 Y10S901/40 Y10S901/41 A61B2017/00075 A61B2017/00486 A61B17/86 A61B2034/105 A61B2034/104 G06T19/20 A61B17/7074 A61B6/4405 A61B17/7001 G06T7/20 G06T7/50 G06T7/70 G06T19/003 G06T2200/24 G06T2207/30241 G06T2210/41 G06T2219/2016 A61B8/4218 A61B8/4263 G06T7/66 A61B8/54 A61B8/14 A61B90/50 G06T2207/10136 G06T2207/20221 G06T2207/30004 A61B8/5207 G06T3/0006 G06T2207/30101 G06T2207/10028 A61B6/4441 A61B17/34 A61B17/7083 G06T19/006 B60W30/0956 G08G1/161 B60W2520/105 B60W2550/408 B60W2550/302 B60W2550/306 B60W2750/40 B60W2520/06 A61B17/848 A61B2090/397 A61B17/3423 A61B17/3472 B25J15/0441 A61B17/7089 A61B34/20 A61B34/30 A61B2090/3945 A61B2090/3983 B25J19/023 A61B6/468 A61B6/505 A61B6/5217 A61B2090/033 A61B8/4254 A61B8/483 A61F2/46 A61B90/36 A61F2002/4632 A61B2034/207 A61B34/77 A61B2090/065 G06T2207/30008 A61B2090/371 A61B34/37 A61B2034/302 A61F2/4611 A61B17/1617 A61B90/40 G01C21/28 G01C21/34 A61B5/064 A61B17/17 A61B90/11 A61B90/96 A61B2017/00876 A61B2034/2055 A61B2090/034 A61B2090/0811 A61B2090/3937 A61B2560/0437 G06T3/0075 A61B5/0077 A61B5/1072 A61B5/1079 A61B5/1127 A61B5/743 A61B90/39 G06T7/74 G06T2207/10021 G06T2207/10048 G05D1/0217 G05D2201/0213 A61B90/361 A61B2090/367 A61B17/7013 A61B2090/067 A61B2017/564 B60W30/0953 A61B2034/2063 A61B34/35 A61B2034/102 A61B17/1757
US: 382/131 600/409 600/424 600/473 606/102 606/130 606/174 606/279 606/80 700/259 701/26

Family:

Publication number	Publication date	Application number	Application date
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CN108969100 A	20181211	CN201810534899	20180529
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Assignee(s): (std): EXCELSIUS SURGICAL L L C ; GLOBUS MEDICAL INC ; GM GLOBAL TECH OPERATIONS LLC

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC ; EXCELSIUS SURGICAL LLC

Inventor(s): (std): ANDREW BERKOWITZ ; BARTELME MICHAEL ; BRANDON MARZOLF ; CHAN KEVIN ; CHRIS MAJOR ; CICCHINI STEPHEN ; CLEARY DAVID ; CRAWFORD NEIL ; DAVID CLEARY ; FORSYTH JEFFREY ; FOSTER MITCHELL ; FRIEDRICH ADAM ; HEALY WESTON ; JAFARI TAFTI SAYYED ROUHOLLAH ; JAWAD MOKHTAR ; JEFFREY FORSYTH ; JOHNSON NOBERT ; JOHNSON NORBERT ; JOSHI SANJAY ; KEVIN ZHANG ; KRULL ALEXANDER ; LEBOEUF ROBERT ; MAJOR CHRIS ; MARZOLF BRANDON ; MITCHELL FOSTER ; MOULTON THIMOTHY ; MOULTON TIMOTHY ; NEIL CRAWFORD ; NEIL R CRAWFORD ; NICHOLAS A THEODORE ; NORBERT JOHNSON ; PATEL ROC ; ROBERT LEBOEUF ; SANJAY M JOSHI ; THEODORE NICHOLAS A ; THIMOTHY MOULTON ; WEBER WES ; ZHANG KEVIN ; JOSHI SANJAY M ; DECKER RYAN ; CAMERON HAYDEN ; BRAUCKMANN MICHAEL ; BERKOWITZ ANDREW ; ZACHARY OLENIO ; YAU JAMES ; WES WEBER ; THEODORE NICHOLAS ; STEPHEN CICCHINI ; ROBINSON MICHAEL ; ROBERT J LEBOEUF II ; PALANISAMY PRAVEEN ; OSCASIO JOVANY ; OLENIO ZACHARY ; MOKHTAR JAWAD ; MEHDI SYED B ; MARCOUILLER NICHOLAS ; LEBOEUF II ROBERT J ; LE BOEUF ROBERT J ; JOHNSON NORBER ; JAMES YAU ; JAFARI TAFTI SAYYED ROUHOLLA ; HUSSAIN MIR ; FOSTER MITCHELL A ; CRAWFORD NEIL R ; CHENG YUAN ; ALEXANDER KRULL

Agent(s): MORABITO SARA; BARRON AND YOUNG INTELLECTUAL PROPERTY LTD; HARAKENZO WORLD PATENT AND TRADEMARK; FELLOWS GERALD L; CASTELLANO KRISTINA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR

CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

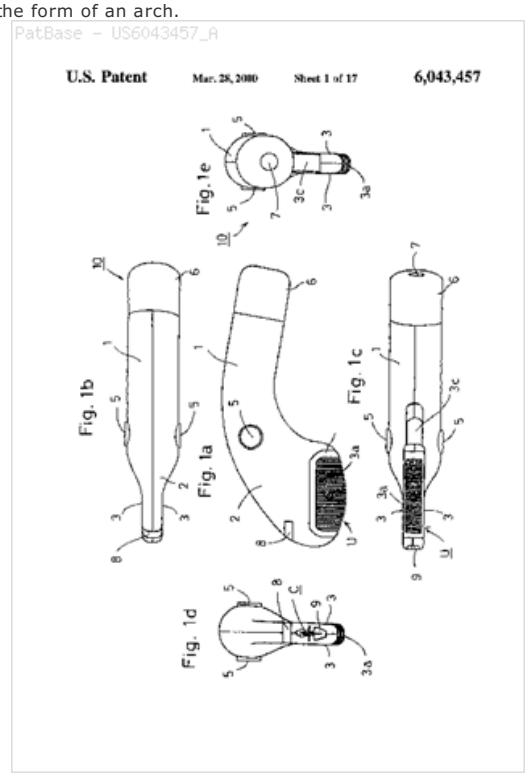
76) Family number: 29461215 (US6043457A)

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Title: Body hair treating implement

Abstract: A body hair treating implement includes a pair of opposed and spaced comb tooth plates and an electrical heating element which is provided between the comb tooth plates and is brought into contact with body hair combed by the comb teeth of the comb tooth plates, so that when the electrical heating element is supplied with the electrical power, the heating element generates heat to burn and cut the body hair in contact therewith. The opposed comb teeth of the opposed comb tooth plates are entirely or partly interconnected at their tip ends in the form of an arch.

Classifications:
International (IPC 8-9): A45D26/00 B26B19/00 B26B19/20 (Advanced/Invention); A45D26/00 B26B19/00 (Core/Invention)
International (IPC 1-7): A45D26/00 A61B17/41 B26B19/00 B26B19/20
CPC: A45D26/0009
European: A45D26/00B
US: 132/118 200/553 219/223 219/225



Family:

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Probable Assignee: HASHIMOTO KENJI

Assignee(s): (std): HASHIMOTO KENJI

Assignee(s): KENJI HASHIMOTO

Inventor(s): (std): HASHIMOTO KENJI ; KENJI HASHIMOTO

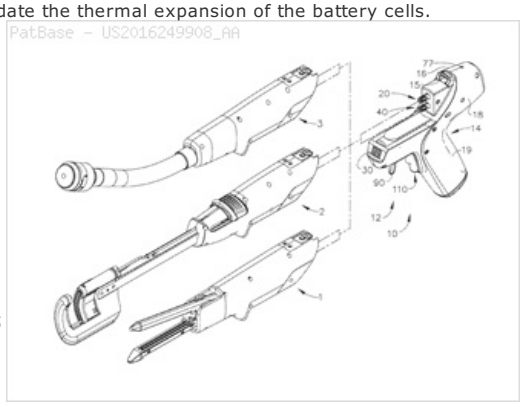
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

77) Family number: 63364217 (US2016249908A)

Title: REINFORCED BATTERY FOR A SURGICAL INSTRUMENT

Abstract: A battery assembly is disclosed which includes a housing and one or more battery cells position in the housing. The battery assembly further comprises features configured to absorb an impact force and protect the battery cells. The battery assembly further comprises features configured to accommodate the thermal expansion of the battery cells.



Classifications:
International (IPC 8-9): A61B17/00 A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 A61B17/16 A61B17/29 A61B17/32 A61B19/00 A61B19/02 A61B50/33 A61B90/00 A61B90/70 A61B90/98 A61L2/26 A61L2/28 B25F3/00 B25F5/00 B25H3/00 G06F19/00 G16H40/20 H01M10/04 H01M10/42 H01M10/44 H01M10/48 H01M10/613 H01M10/62 H01M10/6235 H01M10/643 H01M10/651 H01M10/6551 H01M10/6554 H01M10/658 H01M2/10 H02J7/00 H02J7/04 H02J7/10 H02J7/34 (Advanced/Invention); A61B17/00 A61B17/068 A61B17/072 A61B18/12 A61B19/00 A61B90/00 H01M10/42 H01M10/46 H02J7/00 (Advanced/Non-invention)
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Probable Assignee: ETHICON LLC

Assignee(s): (std)**:** ETHICON ENDO SURGERY LLC ; ETHICON INC ; ETHICON LLC

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Agent(s): CARPMAELS AND RANSFORD LLP; KATO MASANOBU; PLANTZ BERNARD F ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

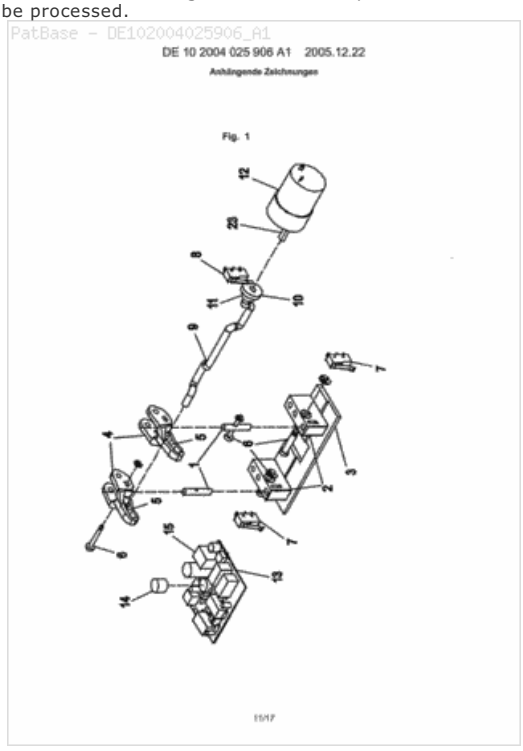
78) Family number: 32506217 (DE102004025906A1)

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Title: ELECTRICAL PUNCHER FOR PUNCHING AND SEWING MATERIAL, HAS POSITION SENSOR WITH CAM CONTROL GEAR THAT IS INTEGRATED IN CRANKSHAFT OF LEVER MECHANISM AND STANDARD MICRO SWITCH THAT IS DESIGNED AS CAM SWITCH

Abstract: The puncher has a lever mechanism with a crankshaft (9), and a lever unit (4) per punching die (1) with a guide (2). The lever unit is threaded on the crankshaft. A position sensor has a cam control gear integrated in the crankshaft and a standard micro switch designed as a cam switch. A control unit (13) monitors the condition of a motor and controls the forward and reverse motion of the motor. An independent claim is also included for a usage of an electrical puncher for single-handed, fully automated punching and sewing of a material to be processed.

Classifications:
International (IPC 8-9): B26D5/14 B26F1/34 (Advanced/Invention); B26D5/08 B26F1/32 (Core/Invention)
International (IPC 1-7): B26F1/34
CPC: B26D5/14 B26F1/34
European: B26D5/14 B26F1/34



Family:

Publication number	Publication date	Application number	Application date
DE102004025906 A1	20051222	DE200410025906	20040527

Priority:

DE200410025906 20040527

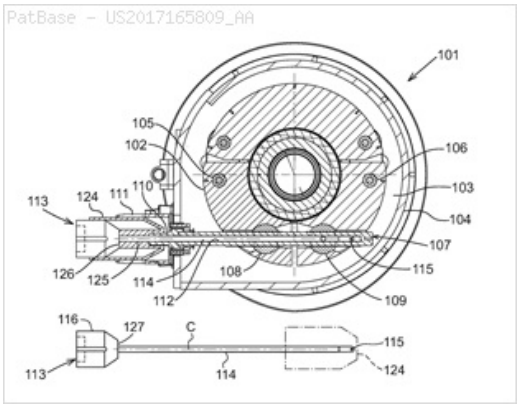
Probable Assignee: M 2 GMBH
Assignee(s): (std)**:** M 2 GMBH
Inventor(s): (std)**:** MEYER ALEXANDER ; MEYER BURKHARD

79) Family number: 61387220 (US2017165809A)

Title: RELEASE OF SUBSEA CLAMP CONNECTOR BY WATERJET CUTTING OF DRIVE SCREW

Abstract: Methods and arrangements are provided for release of an ROV operable subsea clamp connector, the clamp connector comprising at least two clamp segments hinged to move pivotally, and a drive screw connecting the clamp segments by threaded engagement with trunnions arranged rotatable in the pivoting ends of the clamp segments, the threads of the drive screw and trunnions turned such that the trunnions travel along the drive screw in mutually opposite directions when the drive screw is turned. An axial bore in the drive screw is adapted for accommodation of a waterjet cutting tool having a sideways pointing nozzle in a forward end, the waterjet cutting tool rotatable inside the bore while feeding high-pressure water through the nozzle, towards the wall of the drive screw until the wall of the drive screw is cut through.

Classifications:
International (IPC 8-9)**:** B24C1/04 B26F1/26 B26F3/00 E21B17/04 E21B29/12 E21B41/04 F16L1/26 F16L21/06 F16L23/00 F16L23/08 (Advanced/Invention)
CPC: E21B33/038 E21B43/0107 E21B41/04 F16L23/08 B26F1/26 E21B17/04 B24C1/045 B26F3/004 E21B29/12 F16L1/26 F16L21/065 F16L23/003



Family:

Publication number	Publication date	Application number	Application date
EP3166753 A1	20170517	EP20150735932	20150707
NO20140878 A	20160111	NO20140000878	20140710
NO339945 B1	20170220	NO20140000878	20140710
US2017165809 AA	20170615	US20150325300	20150707
WO16005364 A1	20160114	WO2015EP65436	20150707

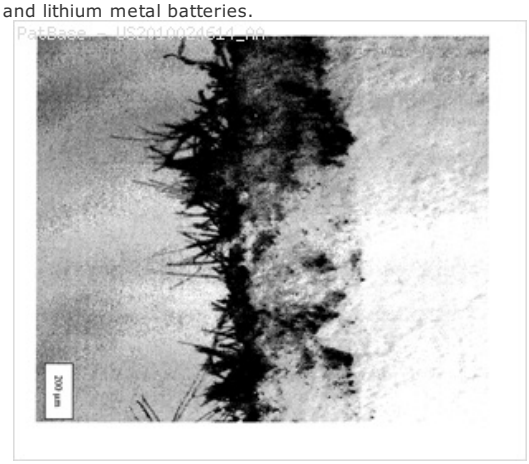
Priority:
NO20140000878 20140710 WO2015EP65436 20150707
Probable Assignee: VETCO GRAY SCANDINAVIA AS
Assignee(s): (std)**:** VETCO GRAY SCANDINAVIA AS
Inventor(s): (std)**:** ROSVOLD MARIUS ; ROSVOLD ODD MARIUS
Agent(s): LEE BRENDA
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

80) Family number: 44312222 (US2010024614A)

Title: METHOD FOR CUTTING OR PUNCHING CERAMIC-CONTAINING COMPOSITE MATERIALS

Abstract: A method for cutting and/or punching material in which abrasive particles are present within and/or on the surface of a substrate is provided. The material cut or punched is useful as a ceramic separator for electrochemical applications including capacitors, supercapacitors, batteries, lithium ion batteries and lithium metal batteries.

Classifications:
International (IPC 8-9)**:** B01D67/00 B26D1/00 B26D3/00 B26F1/44 B28D1/22 B30B9/00 B32B18/00 C23C14/06 C23C16/30 D06M11/00 H01M2/00 H01M2/14 H01M2/16 (Advanced/Invention);
B28D1/00 (Advanced/Non-invention);
B01D67/00 B26D1/00 B26D3/00 B26F1/38 C23C14/06 C23C16/30 H01M2/16 (Core/Invention);
B28D1/00 (Core/Non-invention)
CPC: B26D1/0006 B26D2001/002 B26F1/44 B26F2001/4436 H01M2/145 H01M2/16 H01M10/052 H01G11/50 Y02E60/13 Y10T83/04
European: B26D1/00C B26F1/44 H01M2/14M L26D1/00C4 L26F1/44D T01M10/052 T01M2/16
US: 125/1 125/1S 83/13 83/13P



Family:

Publication number	Publication date	Application number	Application date
CN101637921 A	20100203	CN200910165060	20090730
DE102008040896 A1	20100204	DE200810040896	20080731
EP2149437 A1	20100203	EP20090161767	20090603
JP2010036336 A2	20100218	JP20090179115	20090731
KR20100014157 A	20100210	KR20090069943	20090730
US2010024614 AA	20100204	US20090507108	20090722

Priority:

DE200810040896 20080731

Probable Assignee: EVONIK DEGUSSA GMBH

Assignee(s): (std)**:** EVONIK DEGUSSA GMBH ; EVONIK DEGUSSA GMBH DE

Inventor(s): (std)**:** TROCHA MARTIN ; PASCALY MATTHIAS ; REX FRIEDEMANN ; HYING CHRISTIAN ; MARTIN TROCHA ; CHRISTIAN HYING ; MATTHIAS PASCALY ; FRIEDEMANN REX

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

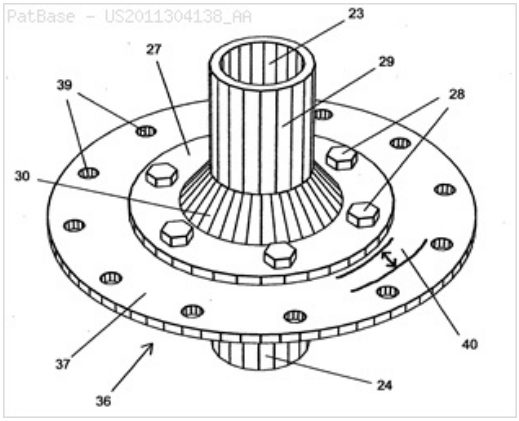
81) Family number: 50100224 (US2011304138A)

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Title: EXTENDED FLANGE PLUMBING FOR DEEP-SEA OIL CONTAINMENT

Abstract: An emergency redundant mounting flange is provided for incorporation into an oil-well blow-out-preventer (BOP), enabling rapid, tight-fitting attachment of an oil containment cap over a BOP outflow port in an emergency. This flange extends radially outward from the protected port, and includes an annular region with a connection feature, such as a ring of bolt-holes, permitting cap attachment. The cap, also provided, is a barrel-shaped diameter-reduction pipe which can be connected onto the emergency mounting flange at its bottom end, and onto a standard riser pipe at its top end, thus containing or stopping the flow of oil. After installation, the cap fully encloses the protected port, while creating a tight seal with the emergency mounting flange. Extension of these methods to bell-and-spigot plumbing fixtures, including reinforced concrete pipe, is also provided.

Classifications:
International (IPC 8-9): B25B1/00 F16L21/02 F16L23/00 G05B15/02 G05D7/00 (Advanced/Invention)
CPC: E21B43/0122 F16L23/032 F16L55/115
European: E21B43/01M F16L23/032 F16L55/115
US: 269/86 269/86S 285/368 285/368P 285/378 285/378S 700/275 700/275S 700/282 700/282P



Family:

Publication number	Publication date	Application number	Application date
US2011304138 AA	20111215	US20110134221	20110601
US2011307105 AA	20111215	US20110134379	20110606

Priority:

US20100397288P 20100609 US20110134221 20110601 US20110134379 20110606

Probable Assignee: COMMONER FREDERIC G

Assignee(s): (std)**:** COMMONER FREDERIC G

Inventor(s): (std)**:** COMMONER FREDERIC G

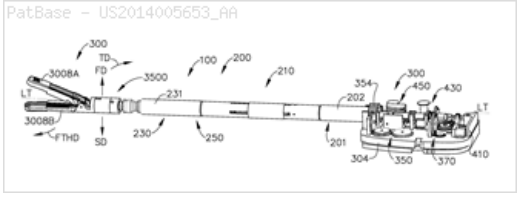
82) Family number: 55478226 (US2014005653A)

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Title: SURGICAL END EFFECTORS HAVING ANGLED TISSUE-CONTACTING SURFACES

Abstract: Surgical end effectors are disclosed having angled tissue-contacting surfaces. The end effectors may have a first jaw member that is movable relative to a second jaw member between an open position and a closed position. The first jaw member may have a first positively-angled tissue-contacting surface. The second jaw member may have a second positively-angled tissue-contacting surface. At least one of the jaw members may have at least one active electrode configured to deliver RF energy to tissue located between the first jaw member and the second jaw member when in the closed position.

Classifications:
International (IPC 8-9): A61B17/00 A61B17/28 A61B17/29 A61B17/295 A61B17/32 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B19/00 A61B34/00 A61B34/30 B25J3/00 (Advanced/Invention);
A61B17/00 (Advanced/Non-invention)
CPC: A61B2017/003 A61B2017/00309 A61B2017/00314 A61B2017/00327 A61B34/70 A61B18/18 A61B17/320016 A61B17/295 A61B17/29 A61B2017/00199 A61B2017/00212 A61B2017/2927 A61B18/1442 A61B17/00 A61B17/00234 A61B18/14
US: 1/1 606/130 606/205 606/33 606/41



Family:

Publication number	Publication date	Application number	Application date
BR112014032736 A2	20170627	BR20141132736	20130620
CN104582616 A	20150429	CN201380044950	20130620
CN104582616 B	20170707	CN201380044950	20130620
EP2866711 A1	20150506	EP20130735127	20130620
IN11028DN2014 A	20160831	IN2014DN11028	20141223
JP2015528718 T2	20151001	JP20150520311T	20130620
JP6208229 B2	20171004	JP20150520311T	20130620
RU2015102351 A	20160820	RU20150102351	20130620
RU2642943 C2	20180129	RU20150102351	20130620
US2014005653 AA	20140102	US20120536326	20120628
US2016184039 AA	20160630	US20160060062	20160303
US2018140368 AA	20180524	US20170809546	20171110
US9289256 BB	20160322	US20120536326	20120628
US9907620 BB	20180306	US20160060062	20160303
WO14004246 A1	20140103	WO2013US46763	20130620

Priority:

US20120536326 20120628 WO2013US46763 20130620 US20160060062 20160303
US20170809546 20171110

Probable Assignee: ETHICON LLC

Assignee(s): (std): BAXTER III CHESTER O ; ETHICON ENDO SURGERY INC ; ETHICON ENDO SURGERY LLC ; ETHICON LLC ; YATES DAVID C ; SHELTON IV FREDERICK E ; ETIKON ENDO SERDZHERI INK

Inventor(s): (std): BAXTER CHESTER O III ; CHESTER O III BAXTER ; DAVID C YATES ; FREDERICK E IV SHELTON ; SHELTON FREDERICK E IV ; YATES DAVID C ; SHELTON IV FREDERICK E ; BAXTER III CHESTER O ; SHELTON FREDERIK E IV ; JEJTS DEVID K ; BAKSTER CHESTER O III

Inventor(s): SHELTON FREDERICK E ; BAXTER CHESTER O

Agent(s): CARPMAELS AND RANSFORD LLP; KATO MASANOBU; OOO YURIDICHESKAYA GORODISSKIJ I PARTNERY FA; JOHNSON PHILIP S ET AL

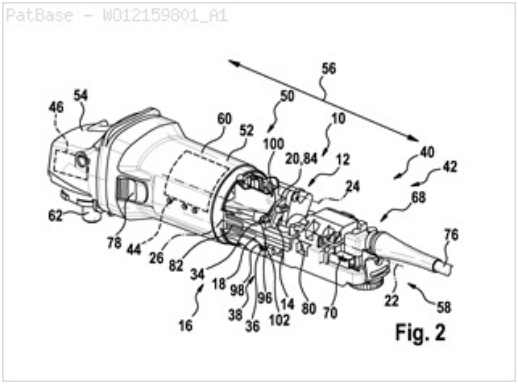
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83) Family number: 52431226 (WO12159801A1) © PatBase

Title: POWER TOOL BRAKE MECHANISM

Abstract: The invention proceeds from a power tool brake mechanism, in particular from a portable power tool brake mechanism, having at least one mechanical brake unit (12) which has at least one rotatably mounted brake element (14), and having at least one actuating unit (16) for activating and/or deactivating the brake unit (12), which has at least one movably mounted actuating element (18). It is proposed that the actuating element (18) is provided, at least in an operating state, to move a counter-brake element (20) of the brake unit (12) at least substantially perpendicularly to a rotation axis (22) of the brake element (14).

Classifications:
International (IPC 8-9): B23Q1/26 B23Q11/00 B23Q5/04 B24B23/02 B25F5/00 (Advanced/Invention)
CPC: B24B23/022 B23Q11/0092 B24B23/02
European: B23Q11/00G8 B24B23/02B



Family:

Publication number	Publication date	Application number	Application date
CN103561906 A	20140205	CN201280024933	20120329
CN103561906 B	20160727	CN201280024933	20120329
DE102011076345 A1	20121129	DE201110076345	20110524
RU2013157029 A	20150627	RU20130157029	20120329
RU2628270 C2	20170815	RU20130157029	20120329
WO12159801 A1	20121129	WO2012EP55583	20120329

Priority:

DE201110076345 20110524 WO2012EP55583 20120329

Probable Assignee: BOSCH GMBH ROBERT

Assignee(s): (std): BOSCH GMBH ROBERT ; ESENWEIN FLORIAN ; LUTZ MANFRED ; MAUTE JOERG ; SCHADOW JOACHIM ; WIKER JUERGEN

Assignee(s): ROBERT BOSH GMBKH ; ROBERT BOSCH GMBH

Inventor(s): (std): ESENWEIN FLORIAN ; EZENVAJN FLORIAN ; MAUTE JOERG ; LUTZ MANFRED ; MAUTE JORG ; LUTTS MANFRED ; WIKER JUERGEN ; SCHADOW JOACHIM ; SHADOV JOAKHIM ; VIKER JYURGEN

Agent(s): ROBERT BOSCH GMBH

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

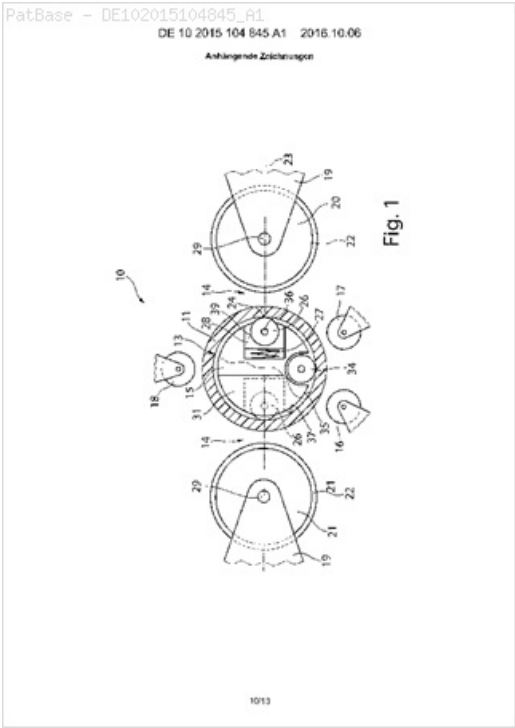
84) Family number: 63714229 (DE102015104845A1)

Title: VERFAHREN UND VORRICHTUNG ZUM ZUMINDEST TEILWEISEN SCHNEIDEN VON ROHREN PROCESS AND APPARATUS FOR THE AT LEAST PARTIAL CUTTING OF PIPES (Machine translation)

Abstract: Source: DE102015104845A1 [DE] Die Erfindung betrifft eine Vorrichtung und ein Verfahren zum Schneiden von Rohren mit zumindest einem Schneidwerkzeug (20, 21), das gegen jeweils einen zur Schnittstelle (14) des Schneidwerkzeuges (20, 21) anordenbaren und im Inneren des Rohres (12) angeordneten Amboss (26) eines Gegenhalters (13) laeuft, wobei waehrend des Schneidvorganges das Schneidwerkzeug (20, 21) gegen den Gegenhalter (13) zustellbar ist, und am Ende des Schneidvorganges in seiner Schnittbewegung durch den Gegenhalter (13) begrenzbar ist und der Amboss (26) im Gegenhalter (13) in einer radial zur Laengsmittelachse des Gegenhalters (13) angeordneten Fuehrung (28) in Zustellrichtung des Schneidwerkzeuges (20, 21) nachgiebig ist und der Amboss (26) zumindest teilweise mit seiner Stirnflaeche (24) ausserhalb der Mantelflaeche (35) des Gegenhalters anordenbar ist, wobei ein rotierender Amboss (26) vorgesehen ist, der drehbar in der Fuehrung (28) gelagert ist.

Machine translation: The invention relates to an apparatus and a method for cutting of pipes with at least a cutting tool (20, 21), that runs against each one to the interface (14) of the cutting tool (20, 21) in applicable order and arranged in the inside of the tube (12) anvil (26) a counterpart (13), where during the cutting process the cutting tool (20, 21) deliverable against the opposing holder (13), and is limited at the end of the cutting process in his cut motion by the opposing holder (13) and the anvil (26) in the Overarm (13) in a Guide arranged radially to the longitudinal centreline of the counterpart (13) (28) towards the delivery of the cutting tool (20, 21) is soft and the anvil (26) is at least partially to order bar with his face (24) outside the outer surface (35) of the counterpart, with a rotating anvil (26) is foreseen which is rotatable in the leadership (28).

Classifications:
International (IPC 8-9): B23D21/00 B26D3/16 (Advanced/Invention)
CPC: B26D3/164 B26D3/16



Family:

Publication number	Publication date	Application number	Application date
DE102015104845 A1	20161006	DE201510104845	20150330

Priority:
DE201510104845 20150330

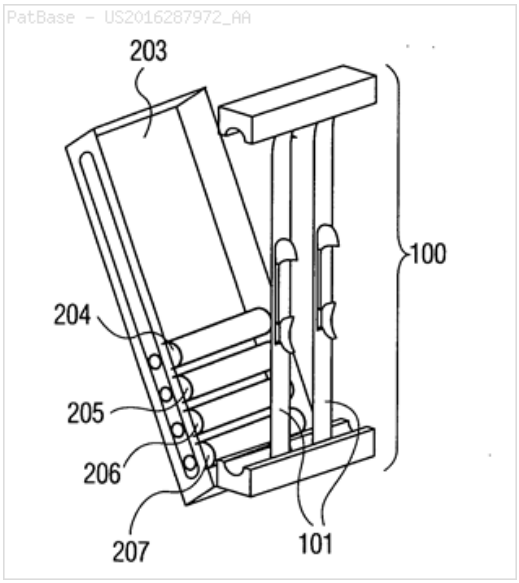
Probable Assignee:	ADOLF BRODBECK MASCHB GMBH AND CO KG
Assignee(s): (std):	ADOLF BRODBECK MASCHB GMBH AND CO KG
Assignee(s):	ADOLF BRODBECK MASCHINENBAU GMBH AND CO KG
Inventor(s): (std):	BRODBECK MICHAEL ; MAIER SIEGFRIED

85) Family number: 63710232 (US2016287972A)

Title: SNOW SPORT EQUIPMENT WAXING DEVICE AND METHOD

Abstract: The invention includes an automated device and method for applying wax to snow sporting equipment. This includes skis and snowboards and provides kiosks where skiers and boarders can deposit their equipment in a track and have appropriate wax for current snow conditions applied to the equipment.
Classifications:
International (IPC 8-9): A63C11/04 A63C11/06 A63C11/08 A63C11/14 B05B15/00 B05B7/16 B05C1/00 B05C11/00 B05C13/02 B05D1/02 B05D3/00 B05D5/08 B24B3/00 B25B5/14 C23C16/52 C23C28/00 H04W4/46 H04W72/12 (Advanced/Invention)

CPC: B05D5/08 B05D1/02 B05B15/00 B05D3/002 A63C11/08 A63C11/04 A63C11/06 A63C11/14 B24B3/006 B24B41/06 H04W72/1263 H04W4/46 H04W72/042
US: 118/58 427/299



Family:

Publication number	Publication date	Application number	Application date
CA2981491 AA	20170929	CA20162981491	20160401
EP3277390 A1	20180207	EP20160717038	20160401
JP2018513759 T2	20180531	JP20180502623T	20160401
US2016287972 AA	20161006	US20150545164	20150401
US2016287973 AA	20161006	US20160089286	20160401
US2019116609 AA	20190418	US20160089286	20160401
US9724592 BB	20170808	US20150545164	20150401
WO16161365 A1	20161006	WO2016US25705	20160401

Priority:
US20150545164 20150401 US20160089286 20160401 WO2016US25705 20160401 WO2016CN078246 20160401

Probable Assignee: SKIQUIKY LLC

Assignee(s): (std)**:** SKIQUICKY INC ; SKIQUIKY INC ; PANASONIC IP CORP AMERICA ; SKIQUIKY LLC

Assignee(s): WITHAM CHRIS ; PANASONIC INTELLECTUAL PROPERTY OF AMERICA CORP ; RAHIM FAHIM ; JOURNELL PETER ; RAHIM NAEEM ; HUNT JONATHAN E ; EISENBARTH ADAM CHRISTIAN ; GIPPLE ROBERT SCOTT ; HART JONATHAN NEIL ; HOWELLS DEVIN OWEN

Inventor(s): (std)**:** FENG SUJUAN ; LOEHR JOACHIM ; BASU MALLICK PRATEEK ; WANG LILEI ; GIPPLE ROBERT SCOTT ; EISENBARTH ADAM CHRISTIAN ; HART JONATHAN NEIL ; GIPPLE ROBERT S ; EISENBARTH ADAM C ; JOURNELL PETER ; HUNT JONATHAN E ; HOWELLS DEVIN OWEN ; HART JONATHAN ; WITHAM CHRIS ; RAHIM FAHIM ; RAHIM NAEEM

Agent(s): ROBIC; MINK LINDENBURG CHARLOTTE HILDEGARD; HIRAKI AND ASSOCIATES; JASON E; FLAIG LAW OFFICE PLLC; MARSHALL RYAN L ET AL

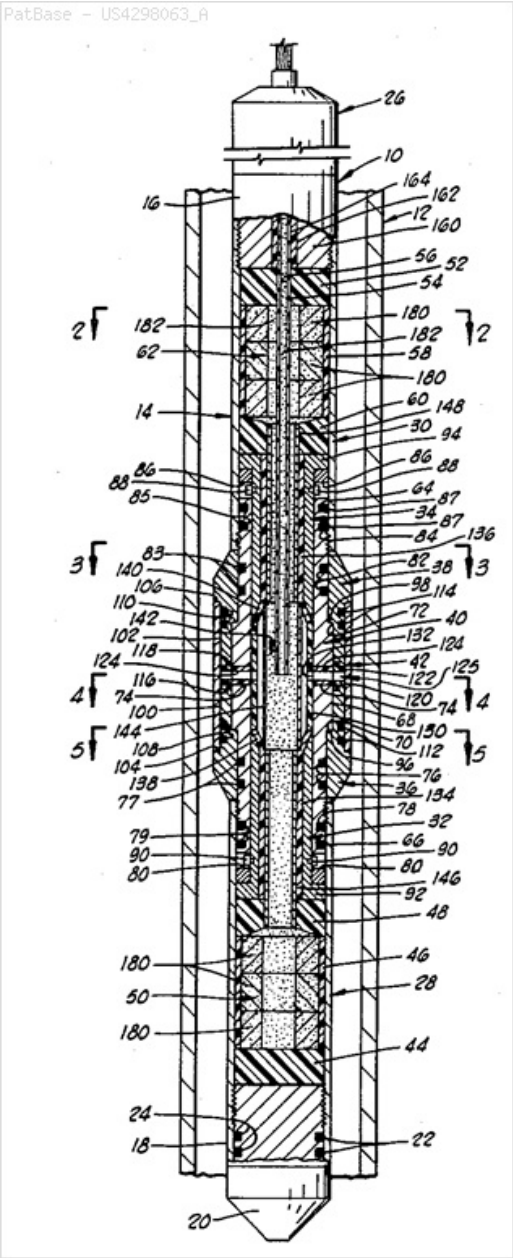
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

86) Family number: 1403234 (US4298063A)

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Title: Methods and apparatus for severing conduits

Abstract: Apparatus for severing a conduit along a plane extending transversely through the conduit which includes an elongated housing forming a pair of longitudinally spaced-apart fuel chambers communicated by an impingement passage extending longitudinally between the fuel chambers. A plurality of fuel reaction products discharge nozzles are disposed transversely through the sides of the housing and means are attached to the housing for simultaneously igniting fuel contained in the fuel chambers whereby reaction products formed therefrom travel in opposite directions through the impingement passage and exit the housing by way of the discharge nozzles. Methods of severing conduits using the apparatus are also provided.
Classifications:
International (IPC 8-9): B23D21/14 B60B3/16 E21B29/02 E21B31/16 F16B43/00 F16B43/02 (Advanced/Invention);
B23D21/00 B60B3/00 E21B29/00 E21B31/00 F16B43/00 (Core/Invention)
International (IPC 1-7): B23D21/14 B23K7/04 B26D B60B3/16 E21B29/02 E21B31/16 F16B29/00 F16B37/00 F16B39/04 F16B39/24 F16B39/26 F16B39/28 F16B43/00 F16B43/02 F23D13/32
CPC: B60B3/145 B60B3/16 F16B43/02 E21B29/02
European: B60B3/14S B60B3/16 E21B29/02 F16B43/02
US: 102/308 102/320 166/297 166/55 411/156 411/368 411/531 411/534 411/537 416/214A



Family:

Publication number	Publication date	Application number	Application date
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SE8008358 L	19810531	SE19800008358	19801128
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US4362449 A	19821207	US19790098918	19791130

Priority:

US19790098918 19791130 US19800123225 19800221 CA19800365354 19801124
CA19800365714 19801128

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): JET RESEARCH CENTER ; LEANFOGG CY MAC ; MAC LEAN FOGG LOCK NUT CO ; MAC LEAN FOGG CO

Assignee(s): MACLEAN FOGG CO ; MACLEAN FOGG COMPANY ; JET RESEARCH CENTER INC TE ARLINGTON TEXAS VER ST ; JET RESEARCH CENTER INC TE ARLINGTON TEXAS VER ST V AM ; REGALBUTO JOHN A ; JET RESEARCH CENTER INC ; CHRISTOPHER GLENN B ; HALLIBURTON CO ; HLINSKY EMIL J

Inventor(s): (std): CHRISTOPHER G B ; CHRISTOPHER GLENN B ; GLENN BUCK CRISTOPHER ; HLINSKY E J ; HLINSKY EMIL J ; REGALBUTO J ; REGALBUTO J A ; REGALBUTO JOHN A ; REGALBUTO JOHN ANTHONY ; CHRISTOPHER GLENN BUCK ; CHRISTOPHER GLEN BUCK ; JIYON ANSONII RIIGARUBUTO ; GUREN BATSUKU KURISUTOFUAA

Inventor(s): E J HLINSKY ; JOHN A REGALBUTO ET GLEN BUCK CHRISTOPHER ; J A REGALBUTO ; G B CHRISTOPHER ; J HLINSKY EMIL ; JA REGALBUTO ; JOHN ANTHONY REGALBUTO ; EJ HLINSKY ; EMIL J HLINSKY ; GB CHRISTOPHER ; GLEN BUCK CHRISTOPHER ; ANTHONY REGALBUTO JOHN ; BUCK CHRISTOPHER GLENN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SWABEY OGILVY RENAULT; SMART AND BIGGAR

87) Family number: 54907243 (US2013257699A)

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Title: DRIVER CIRCUIT, SIGNAL PROCESSING UNIT HAVING THE DRIVER CIRCUIT, METHOD FOR MANUFACTURING THE SIGNAL PROCESSING UNIT, AND DISPLAY DEVICE

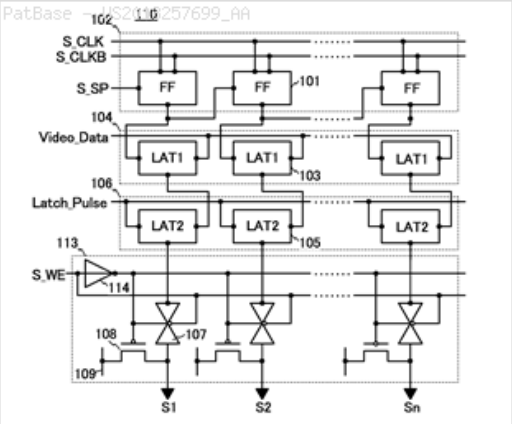
Abstract: Disclosed is a driver circuit including a latch circuit, a shift register circuit, and a switching circuit, where the latch circuit is provided over the shift register circuit and the switching circuit. The shift register circuit and the switching circuit may have a silicon-based semiconductor, while the latch circuit may have an oxide semiconductor. The latch circuit includes a first transistor and a second transistor connected in series. The latch circuit may further include a first capacitor and a second capacitor which are electrically connected to the first transistor and the second transistor. A display device using the driver circuit as well as a method for preparing the driver circuit is also disclosed.

Classifications:

International (IPC 8-9): B25H1/00 F16H19/04 F16H3/083 F16H3/089 G02F1/133 G02F1/1345 G02F1/1368 G09F9/00 G09F9/30 G09G3/20 G09G5/00 G11C19/28 H01L21/00 H01L21/02 H01L21/336 H01L21/77 H01L21/8234 H01L21/8238 H01L27/06 H01L27/08 H01L27/088 H01L27/092 H01L27/108 H01L27/12 H01L27/32 H01L29/786 H01L51/50 H03K3/356 H05B33/14 (Advanced/Invention)

CPC: G11C19/28 G09G5/00 H01L21/77 G09G3/20 G09G2380/02 G09G2310/0248 G09G2310/0289 H01L27/1259 G09G2330/021 G09G2310/0286 H01L27/1225 H01L27/1203 H01L27/1266 F16H3/089 F16H19/04 F16H2200/0034 B25H1/0042 F16H3/083 B25H1/0064 F16H19/043

US: 1/1 345/55 345/84 377/64 438/128



Family:

Publication number	Publication date	Application number	Application date
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US2016225463 AA	20160804	US20160091762	20160406
US2019093738 AA	20190328	US20160091762	20160406
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Priority:

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US20160091762 20160406 WO2016EP57526 20160406

Probable Assignee: SEMICONDUCTOR ENERGY LAB CO LTD

Assignee(s): (std): HUSQVARNA AB ; SEMICONDUCTOR ENERGY LAB ; SEMICONDUCTOR ENERGY LAB CO LTD

Assignee(s): SEMICONDUCTOR ENERGY LABORATORY CO ; SEMICONDUCTOR ENERGY LABORATORY CO LTD

Inventor(s): (std): OHNUMA HIDETO ; ONUMA HIDETO ; TAKAHASHI KEI ; YAMAZAKI SHUNPEI ; GRENNHAG DAVID ; ALMQVIST TORBJOERN

Agent(s): JEFFREY L; NIXON PEABODY LLP

88) Family number: 31521246 (US2005029978A)

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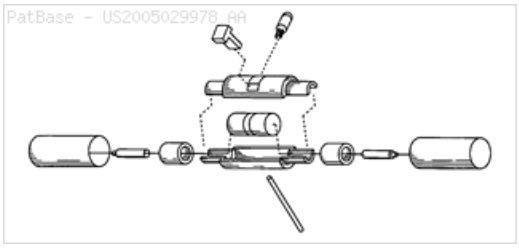
Title: MICROROBOT FOR SURGICAL APPLICATIONS

Abstract: The present invention provides a micro-robot for use inside the body during minimally-invasive surgery. The micro-robot may include various sensors, imaging devices or manipulators.

Classifications:

International (IPC 8-9): A61B1/00 A61B1/04 A61B1/06 A61B1/313 A61B1/32 A61B10/02 A61B10/04 A61B10/06 A61B17/00 A61B17/02 A61B17/22 A61B17/28 A61B17/34 A61B17/94 A61B18/00

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A61B1/06 A61B1/313 A61B17/94 A61B19/00 (Core/Non-invention)



International (IPC 1-7): B25J5/00
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: BOARD OF UNIV OF NEBRASKA

Assignee(s): (std): DUMPERT JASON ; BOARD OF UNIV OF NEBRASKA ; BOARD OF UNIV OF NABRASKA ; OLEYNIKOV DMITRY ; FARRITOR SHANE ; HADZIALIC ADNAN ; PLATT STEPHEN R ; RENTSCHLER MARK ; UNIV NEBRASKA ; LEHMAN AMY ; PLATT STEVE ; REGENTS FOR UNIV OF ; PRIOR REED ; NEBRASKA SURGICAL SOLUTIONS IN ; FARRITOR SHANE M ; HAWKS JEFF ; PLATT STEPHEN A ; PLATT STEPHEN ; BOARD OR UNIVER ; BOCK ADAM ; UNIV NEBRASKA UNEMED BOARD OF REGENTS ; UNIV OF NEBRASKA BOARD OF REGENTS ; WOOD NATHAN A ; VIRTUAL INCISION CORP ; WOOD NATHAN

Assignee(s): VIRTUAL INCISION CORPN118 WALTER SCOTT ENGINEERING CENTERUNIVERSITY OF NEBRASKALINCOLNNE68588-0656US ; VIRTUAL INCISION CORP LINCOLN ; VIRTUAL INC ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; US ARMY SECRETARY OF ARMY ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; BOARD OF UNIV OF NEBRASKA UNEMED ; BOARD OF UNIV OF NEBRASKA3835 HOLDREDGE STREETVARNER HALLLINCOLNNE68583-0745US ; BOARD OF UNIV OF NEBRASKAVARNER HALL3835 HOLDREDGE STREETLINCOLNNE68583US ; BOARD OF UNIV OF NEBRASKA LINCOLN ; BOARD OF UNIVERSITY OF NEBRASKA ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEA ; NEBRASKA SURGICAL SOLUTIONS INC ; BOARD OR UNIV NEBRASKA ; BOARD OR UNIV OF NEBRASKA ; BOARD OF THE UNIV OF NEBRASKA ; BOARD OF REGENTS FOR UNIV NEBRASKA ; BOARD OF REGENTS FOR UNIV OF NEBRASKA ; BOARD OF REGENTS OF THE UNIV OF NEBRASKA ; BOARD OF UNIV ; BOARD OF UNIV NEBRASKA

Inventor(s): (std): BOCK ADAM ; FARRITOR SHANE ; FARRITOR SHANE M ; HADZIALIC ADNAN ; OLEYNIKOV DMITRY ; PLATT STEPHEN R ; PLATT STEVEN R ; PRIOR REED ; RENTSCHLER MARK ; RENTSCHLER MARK E ; SHANE FARRITOR ; STEVE PLATT ; DUMPERT JASON ; DMITRY OLEYNIKOV ; WOOD NATHAN A ; WOOD NATHAN ; JASON DUMPERT ; PLATT STEVE ; PLATT STEPHEN ; LEHMAN AMY ; HAWKS JEFF ; FARRITOR SHANE MICHAEL ; OKEYNIKOV DMITRY ; STEPHEN PLATT ; MARK RENTSCHLER ; LEHRMAN AMY ; JEFF HAWKS

Inventor(s): FARRITOR SHANEUS ; DUMPERT JASONUS ; LEHMAN AMY SEWARD ; PLATT STEVEUS ; OLEYNIKOV DMITRYUS ; FARRITOR SHANE LINCOLN ; DUMPERT JASON OMAHA ; OLEYNIKOV DMITRY OMAHA ; FARRITOR SHANE MUS ; FARRITOR SHANE M LINCOLN ; RENTSCHLER MARK BOULDER ; PLATT STEVE URBANA ; BOCK ADAMUS ; BOCK ADAM SUN PRAIRIE ; WOOD NATHAN A LINCOLN ; WOOD NATHAN A PAPILLION ; WOOD NATHAN AUS ; LEHMAN AMYUS ; RENTSCHLER MARK OMAHA ; RENTSCHLER MARKUS ; PRIOR REED WALTHAM ; PRIOR REEDUS ; LEHMAN AMY YORK

Agent(s): RICHES MCKENZIE AND HERBERT LLP; WEICKMANN AND WEICKMANN PATENT U RECHTSANWAELTE PARTMBB; COLLINS JOHN DAVID ET AL; BOULT WADE TENNANT; HYDEN MARTIN DOUGLAS; GRANT DAVID MICHAEL; BOULT WADE TENNANT LLP; COLLINS JOHN DAVID; BRISCOE PAUL BRIAN; ONDA HIRONORI; ONDA MAKOTO; MOSER PATTERSON AND SHERIDAN LLP SUITE 1500; LICATLA AND TYRRELL PC; LICATA AND TYRRELL PC; DORSEY AND WHITNEY LLP, INTELLECTUAL PROPERTY DEPARTMENT; DORSEY AND WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT; FAEGRE AND BENSON LLP, PATENT DOCKETING; FAEGRE AND BENSON LLP PATENT DOCKETING; FAEGRE AND BENSON LLP,PATENT DOCKETING; FAEGRE AND BENSON LLP,PATENT DOCKETING - INTELLECTUAL PROPERTY; FAEGRE AND BENSON LLP PATENT DOCKETING INTELLECTUAL PROPERTY; PATTERSON AND SHERIDAN LLP; DORSEY AND WHITNEY LLP; PAEGRE AND BENSON LLP; FAEGRE AND BENSON LLP; DAVIS BROWN KOEHN SHORS AND ROBERTS PC; SEAN D; SOLBERG SEAN D; SOLBERG SEAN ET AL; SOLBERG SEAN D ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

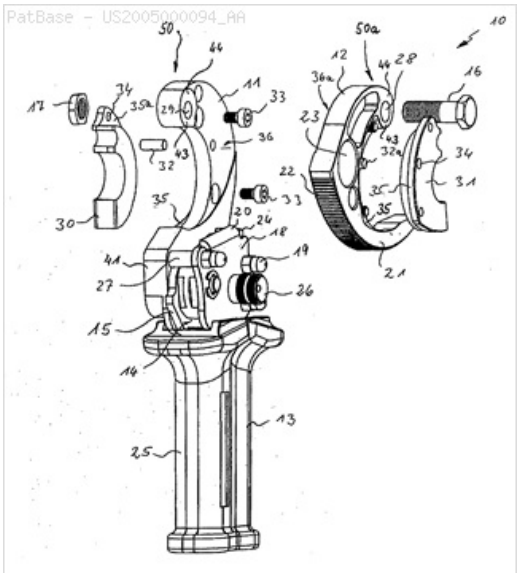
89) Family number: 30970249 (US2005000094A)

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Title: MANUAL APPARATUS FOR CUTTING CABLES TO SIZE

Abstract: Manual cutting tools for cutting cables, steel cord, rods and the like to size, comprising a pair of cutting means (12a) adapted to be moved against each other, one connected with a stationary handle (13) and the other one adapted to be moved against stationary cutting means (11a) by means of a movable handle via transmission means (14). Cutting means (11a, 12a) have associated therewith concavely shaped replaceable cutting elements (30a, 31a) mounted in a floating fashion.

Classifications:
International (IPC 8-9): B23D29/02 B25B7/02 B26B13/06 B26B17/00 B26B27/00 (Advanced/Invention); B23D29/00 B25B7/00 B26B13/00 B26B17/00 B26B27/00 (Core/Invention)
International (IPC 1-7): B21F13/00 B23D29/02 B25B7/02
CPC: B23D29/023
European: B23D29/02B
US: 30/250 30/349 30/90.3 30/903 30/92 30/920



Family:

Publication number	Publication date	Application number	Application date
AT362814 E	20070615	AT20040090108T	20040315
DE10312507 A1	20040923	DE20031012507	20030315
DE10312507 B4	20070726	DE20031012507	20030315
DE502004003856 D1	20070705	DE200450003856T	20040315
EP1459826 A2	20040922	EP20040090108	20040315
EP1459826 A3	20050323	EP20040090108	20040315
EP1459826 B1	20070523	EP20040090108	20040315
ES2287639 T3	20071216	ES20040090108T	20040315
US2005000094 AA	20050106	US20040799725	20040315
US7080453 BB	20060725	US20040799725	20040315

Priority:

DE20031012507 20030315

Probable Assignee: LAUX INDUSTRIE GMBH

Assignee(s): (std)**:** LAUX IND GMBH ; LAUX STEFFEN

Assignee(s): LAUX INDUSTRIE GMBH

Inventor(s): (std)**:** LAUX STEFFEN

Agent(s): BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

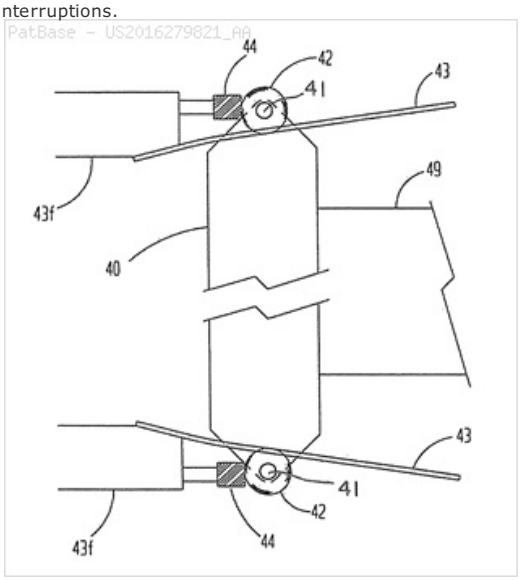
90) Family number: 63628249 (US2016279821A)

© PatBase

Title: CUTTING SYSTEM AND ANVIL STRIP MOUNTING APPARATUS AND METHOD

Abstract: Apparatus for cutting source material in the form of a thin moving web includes a rotating cutting cylinder having an outwardly extending mounted blade and a closely spaced support member. Disposed between the blade-bearing lateral surface of the cutting cylinder and the support member, and in contact with the support member, is a movable, generally flat anvil strip adapted to engage, position and support the thin web to allow the rotating blade to sever the web material. The anvil strip is displaced in a reciprocating manner between a retracted position at the beginning of the blade's cutting stroke and an activated position at the end of the cutting stroke, prior to return of the anvil strip to its initial retracted position. The combination of a leaf spring and a ball bearing arrangement attached to each opposed end of the anvil strip permits this repetitive, reciprocating motion, where each leaf spring and ball bearing combination is of reduced mass and traverses a contoured path to allow for: (1) higher anvil strip reciprocating and web processing rates; (2) reduced blade wear, anvil strip oscillation amplitude, and inter-component friction; and (3) accommodating jamming of the machine by the severed web material without damage to the machine and with reduced operation interruptions.

Classifications:
International (IPC 8-9)**:** B26D1/22 B26D1/36 B26D1/38 B26D1/62 B26D7/20 B26D7/26 (Advanced/Invention)
CPC: B26D7/265 B26D7/20 B26D1/22 B26D1/36 B26D1/385 B26D1/626 Y10T83/0515
US: 83/37



Family:

Publication number	Publication date	Application number	Application date
EP3072649 A1	20160928	EP20160162145	20160324
EP3072649 B1	20171227	EP20160162145	20160324
US2016279821 AA	20160929	US20160060248	20160303
US9914236 BB	20180313	US20160060248	20160303

Priority:

US20150139128P 20150327 US20160060248 20160303

Probable Assignee: TAMARACK PRODUCTS INC

Assignee(s): (std)**:** TAMARACK PRODUCTS INC

Inventor(s): (std)**:** MACHAMER DAVID E

Agent(s): BRP RENAUD AND PARTNER MBB RECHTSANWAELTE PATENTANWAELTE STEUERBERATER; GREER BURNS AND CRAIN LTD

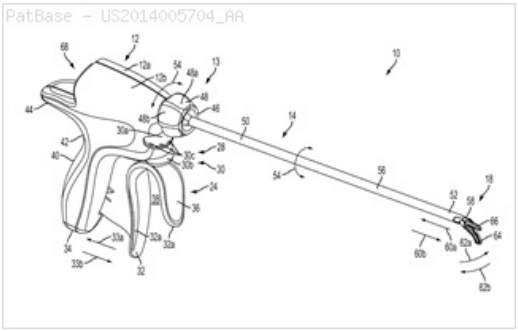
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

91) Family number: 55478251 (US2014005704A)

Title: ULTRASONIC SURGICAL INSTRUMENTS WITH DISTALLY POSITIONED JAW ASSEMBLIES

Abstract: Various embodiments are directed to surgical instruments comprising an end effector, a shaft and a jaw assembly. The end effector may comprise an ultrasonic blade extending distally substantially parallel to a longitudinal axis. The shaft may extend proximally from the end effector along the longitudinal axis. The jaw assembly may comprise first and second jaw members. The jaw assembly may be pivotable about a first axis substantially perpendicular to the longitudinal axis from a first position where the first and second jaw members are substantially parallel to the ultrasonic blade to a second position. Additionally, the first and second jaw members may be pivotable about a second axis substantially perpendicular to the first axis.

Classifications:
International (IPC 8-9): A61B1/00 A61B1/018 A61B17/29 A61B17/295 A61B17/32 A61B18/00 A61B19/00 A61B34/00 A61B34/30 B25J1/00 (Advanced/Invention); A61B18/00 A61B18/14 (Advanced/Non-invention)
International (IPC 1-7): A61B19/00
CPC: A61B17/320092 A61B18/1445 A61B2018/00875 A61B2018/1452 A61B19/2203 A61B2019/2215 A61B2019/2234 A61B34/30 A61B2034/302 A61B2034/305 A61B17/295 A61B34/71 A61B2018/1455
US: 1/1 606/169



Family:

Publication number	Publication date	Application number	Application date
AU2013280951 AA	20140103	AU20130280951	20130614
AU2013280951 BB	20180705	AU20130280951	20130614
BR112014032915 A2	20170627	BR20141132915	20130614
CA2877690 AA	20141222	CA20132877690	20130614
CN104602624 A	20150506	CN201380044999	20130614
CN104602624 B	20170517	CN201380044999	20130614
DE602013011122 D1	20161027	DE201360011122T	20130614
EP2866698 A1	20150506	EP20130733170	20130614
EP2866698 B1	20160907	EP20130733170	20130614
EP2866698 B8	20161214	EP20130733170	20130614
ES2605986 T3	20170317	ES20130733170T	20130614
IN11185DN2014 A	20151002	IN2014DN11185	20141229
JP2015524683 T2	20150827	JP20150520271T	20130614
JP6174136 B2	20170802	JP20150520271T	20130614
US2014005704 AA	20140102	US20120538711	20120629
US2016346001 AA	20161201	US20160167193	20160527
US9351754 BB	20160531	US20120538711	20120629
WO14004120 A1	20140103	WO2013US45828	20130614

Priority:
US20120538711 20120629 EP20130733170 20130614 WO2013US45828 20130614 US20160167193 20160527

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON ENDO SURGERY LLC ; VAKHARIA OMAR J ; SMOLIK STEVEN P ; STEFANCHIK DAVID ; MESSERLY JEFFREY D

Assignee(s): ETHICON ENDO SURGERY LLC GUAYNABO ; ETHICON LLC

Inventor(s): (std): VAKHARIA OMAR J ; SMOLIK STEVEN P ; STEFANCHIK DAVID ; MESSERLY JEFFREY D ; OMAR J VAKHARIA ; JEFFREY D MESSERLY ; DAVID STEFANCHIK ; STEVEN P SMOLIK

Inventor(s): MESSERLY JEFFREY D CINCINNATI ; STEFANCHIK DAVID MORROW ; SMOLIK STEVEN P WEST CHESTER ; VAKHARIA OMAR J CINCINNATI

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; CARPMAELS AND RANSFORD LLP; IZQUIERDO MARIA ALICIA; KATO MASANOBU; JOHNSON PHILIP S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

92) Family number: 5123255 (US4919272A)

Title: EASILY OPENABLE TIGHTLY SEALED BAG

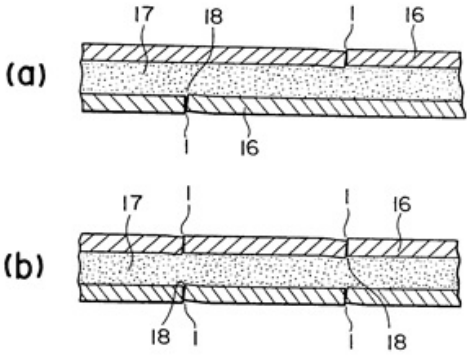
Abstract: This invention provides an easily openable tightly sealed plastic bag which is formed of a film containing at least a substrate layer and a heat seal layer and is possessed of a sealed part whose substrate layer contains a multiplicity of through cuts, these cuts being formed substantially on the edge lines and partly or wholly closed with the heat seal layer. This tightly sealed bag safely retains the practical strength normally expected of any bag and avoids accidentally sustaining rupture while the bag is being transported or handled and yet permits itself to be opened with the force of finger tips. This invention manifests its utility particularly in a tightly sealed bag which is formed of a substrate of high strength and high barrier property. This invention further provides a method suitable for the production of the tightly sealed bag described above and a device to be used in working the method. The easily openable tightly sealed plastic bag of particularly desirable quality can be obtained by the method and the device so provided by this invention.

Classifications:
International (IPC 8-9): B26F1/20 B26F1/24 B29C65/00 B29C65/76 B31B1/14 B31B1/90 B32B27/08 B32B3/24 B65B61/18 B65D17/28 B65D33/00 B65D65/28 B65D65/32 B65D75/58 B65D75/60 B65D77/30 (Advanced/Invention); B65D75/12 B65D75/20 B65D75/30 (Advanced/Non-invention);

B26F1/00 B29C65/00 B31B1/14 B31B1/74 B32B27/08 B32B3/24 B65B61/18 B65D17/28 B65D33/00 B65D65/22 B65D75/52 B65D77/22 (Core/Invention);
B65D75/04 B65D75/28 (Core/Non-invention)
International (IPC 1-7): B26D1/00 B26D3/06 B26D3/12 B26F1/18 B26F1/20 B31B1/14 B31B1/62 B31B1/90 B31B19/14 B31B23/00 B32B31/00 B32B35/00 B32B7/12 B65B51/02 B65B61/18 B65D17/28 B65D27/34 B65D30/08 B65D33/00 B65D33/16 B65D33/18 B65D33/36 B65D5/59 B65D77/30 B65D81/24
CPC: Y10S493/93 Y10S493/963 B29C2793/0045 Y10T156/1056 Y10T428/1307 Y10T428/1328 Y10T428/15 Y10T428/24314 Y10T428/24331 Y10T428/2817 Y10T428/2826 Y10T83/0385 Y10T83/9403 Y10T83/9408 Y10T428/31692 Y10T428/31743 Y10T428/31746 Y10T428/31913 B29C66/4312 B29C66/432 B29C66/4322 B29C66/71 B26F1/20 B26F1/24 B29C65/76 B65D75/12 B65D75/20 B65D75/30 B65D75/58 B29C66/028 B29C66/02242 B29C66/72321 B29C66/72328 B29C66/7234 B29C66/022 B29C66/1122 B29C66/133 B32B7/02 B32B27/30 B32B2250/24 B32B2307/31 B32B2307/54 B32B2307/582 B32B2439/46 B32B3/266 B32B27/08 B65D75/5855
European: B26F1/20 B26F1/24 B29C65/76 B29C66/022 B32B27/08 B32B3/26B B65D75/58 B65D75/58F L29C793/00E L65D75/12 L65D75/20 L65D75/30
US: 156/252 206/484 206/620 206/632 260/484 260/610 260/629 260/632 383/109 383/200 428/136 428/138 428/34.3 428/34.9 428/347 428/349 428/43 428/461 428/475.8 428/476.1 428/516 493/363 493/930 493/963 53/133.1 53/412 83/676 83/678 83/886

PatBase – US4919272_A

FIG. 2



Family:

Publication number	Publication date	Application number	Application date
DE3542565 A1	19860605	DE19853542565	19851202
DE3542565 C2	19940331	DE19853542565	19851202
DE3546877 C2	19961205	DE19853546877	19851202
FR2574051 A1	19860606	FR19850017781	19851202
FR2574051 B1	19900119	FR19850017781	19851202
FR2628710 A1	19890922	FR19890004148	19890330
FR2628710 B1	19910412	FR19890004148	19890330
GB2169874 A1	19860723	GB19850029597	19851202
GB2169874 B2	19890920	GB19850029597	19851202
GB2208622 A1	19890412	GB19880022297	19880921
GB2208622 B2	19890920	GB19880022297	19880921
GB8529597 A0	19860108	GB19850029597	19851202
GB8822297 A0	19881026	GB19880022297	19880921
GB8907097 A0	19890510	GB19890007097	19890329
HK92993 A	19930917	HK19930000929	19930909
HK93093 A	19930917	HK19930000930	19930909
JP2019901 C3	19960219	JP19840262951	19841214
JP2132068 C3	19970912	JP19910306095	19911121
JP2502860 B2	19960529	JP19910306096	19911121
JP2731474 B2	19980325	JP19910306093	19911121
JP6008947 A2	19940118	JP19910306094	19911121
JP6008948 A2	19940118	JP19910306095	19911121
JP6008949 A2	19940118	JP19910306096	19911121
JP6008965 A2	19940118	JP19910306092	19911121
JP6008966 A2	19940118	JP19910306093	19911121
JP61142133 A2	19860630	JP19840262951	19841214
JP61142159 A2	19860630	JP19840254207	19841203
JP62052065 A2	19870306	JP19850180930	19850820
JP7041688 B4	19950510	JP19840262951	19841214
JP8029784 B4	19960327	JP19910306095	19911121
US4919272 A	19900424	US19880256220	19881012
US4977807 A	19901218	US19890418431	19891006
US5038547 A	19910813	US19890418433	19891006
US5141795 A	19920825	US19910729895	19910715

Priority:

JP19840254207 19841203 JP19840262951 19841214 JP19850180930 19850820
DE19853542565 19851202 GB19850029597 19851202 US19850803446 19851202
GB19880022297 19880921 US19880256220 19881012 US19890418434 19891006
JP19910306092 19911121 JP19910306095 19911121 JP19910306096 19911121
JP19910306093 19911121 JP19910306094 19911121

Probable Assignee: ASAHI KASEI CORP

Assignee(s): (std): ASAHI CHEMICAL IND ; ASAHI CHEMICAL POLYFLEX ; ASAHI KASEI CORP

Assignee(s): ASAHI KASEI KABUSHIKI KAISHA ; ASAHI KASEI KK ; ASAHI KASEI PAX CORP ; ASAHI KASEI KOGYO KABUSHIKI KAISHA ; ASAHI CHEMICAL POLYFLEX LTD ; ASAHI KASEI KOGYO KK ; ASAHI KASEI KOGYO K K ; ASAHI KASEI KOGYO K K OSAKA JP ; A HI KASEI PAX CORPSA ; ASAHI CHEM IND CO LTD

Inventor(s): (std): KAI HISAO ; NAKASHIMA KIYOSHI ; NAKAJIMA KIYOSHI

Inventor(s): KIYOSHI NAKASHIMA ; HISAO KAI ET KIYOSHI NAKASHIMA ; HISAO KAI ; NAKASHIMA KIYOSHI AGEO SAITAMA JP ; KAI HISAO CHIBA JP ; NAKAJIMA KYOSHI

Agent(s): KOMATSU HIDEOKA; ASAHI HIROSHI; KAGAMI NORIO

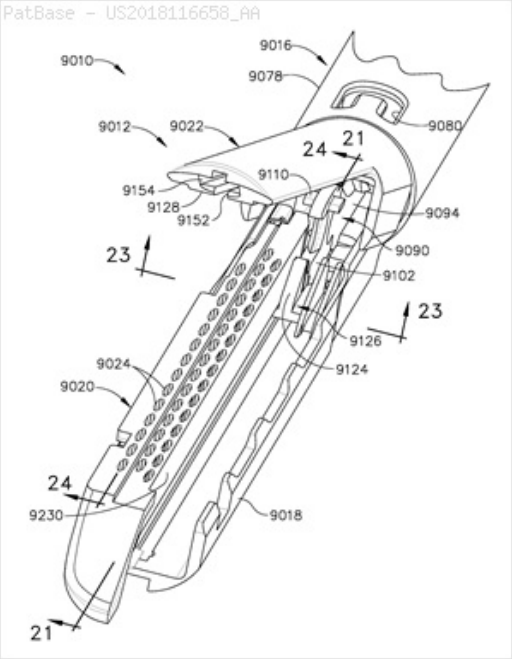
93) Family number: 69563260 (US2018116658A)

Title: ACTUATOR FOR RELEASING A TISSUE THICKNESS COMPENSATOR FROM A FASTENER CARTRIDGE

© PatBase

Abstract: A fastener cartridge assembly for use with a surgical end effector. The fastener cartridge assembly can comprise a cartridge body having fastener cavities, fasteners removably positioned in the fastener cavities, a layer of material releasably secured relative to the cartridge body, a connector configured to secure the layer of material to the cartridge body at a location distal to at least one fastener cavity, and an actuator. The layer of material can be a tissue thickness compensator. When actuated, the actuator can overcome the connector, and can overcome the connector prior to the removal of the fasteners from the fastener cavities. The actuator can be actuated at a location proximal to at least one fastener cavity, and can extend distally past at least one fastener cavity toward the connector.

Classifications:
International (IPC 8-9): A61B17/00 A61B17/064 A61B17/068 A61B17/072 A61B17/10 A61B17/115 B25C5/16 (Advanced/Invention); A61B17/29 A61B17/32 (Advanced/Non-invention)
CPC: A61B17/00491 A61B17/0644 A61B17/068 A61B17/0682 A61B17/0686 A61B17/072 A61B17/07292 A61B17/105 A61B17/1155 A61B17/2909 A61B2017/00004 A61B2017/00314 A61B2017/00327 A61B2017/00477 A61B2017/00526 A61B2017/0053 A61B2017/00818 A61B2017/00862 A61B2017/00884 A61B2017/00893 A61B2017/00951 A61B2017/0641 A61B2017/07228 A61B2017/07235 A61B2017/07242 A61B2017/0725 A61B2017/07257 A61B2017/07264 A61B2017/07271 A61B2017/07278 A61B2017/2908 A61B2017/2916 A61B2017/2919 A61B2017/2923 A61B2017/2927 A61B2017/2933 A61B2017/2936 A61B2017/2946 A61B2017/320052 A61B2090/037 B25C5/1686 A61B17/07207 A61B17/0643



Family:

Publication number	Publication date	Application number	Application date
US2018116658 AA	20180503	US20170796254	20171027

Priority:

US20100894360 20100930 US20100894377 20100930 US20110097907 20110429
US20110097891 20110429 US20120433129 20120328 US20120433147 20120328
US20130763035 20130208 US20130763078 20130208 US20130763094 20130208
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US20130763028 20130208 US20130763054 20130208 US20130763112 20130208
US20130763106 20130208 US20170796254 20171027

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON LLC

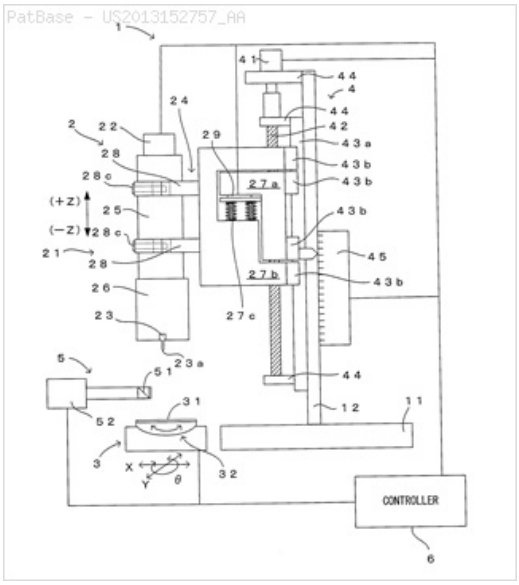
Inventor(s): (std): ARONHALT IV TAYLOR W ; LLOYD BRANDON J ; VENDELY MICHAEL J ; WEANER LAUREN S ; SHELTON IV FREDERICK E

94) Family number: 49887275 (US2013152757A)

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Title: VIBRATION CUTTING APPARATUS

Abstract: Provided is a technique which can prevent abnormal vibrations from occurring on a resonator and apply, to a putting edge, vibrations with the magnitude of amplitude thereof adjusted in the direction of width of the edge, thereby cutting an object of interest with high accuracy. The resonator (21) with a grip portion grasped with clamp means (28) is supported by a support means (24), thereby preventing abnormal vibrations from occurring on the resonator (21). The resonator (21) has at least one elongated hole (26b) defined through a side thereof, thus allowing for adjusting the amplitude magnitude of vibrations in the direction of width of the cutting edge (23) on one end of the resonator (21). This enables vibrations with the amplitude of an adjusted magnitude in the direction of width to be applied to the cutting edge (23). Accordingly, the cutting edge (23) which is adequately vibrated can be used to cut the object of interest with high accuracy.
Classifications:
International (IPC 8-9): B26D1/06 B26D1/08 B26D7/08 B26D7/20 (Advanced/Invention)
CPC: B26D7/086 B26D1/0006 B26D3/085 B26D7/2614 B26F1/40 Y10T83/8804
European: B26D1/00C B26D3/08B B26D7/08C L26D7/26B L26F1/40
US: 83/601



Family:

Publication number	Publication date	Application number	Application date
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CN102858504 B	20150812	CN201180021091	20110426
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JP5878299 B2	20160308	JP20110095630	20110422
KR101430539 B1	20140818	KR20127024047	20110426
KR20120116999 A	20121023	KR20127024047	20110426
US2013152757 AA	20130620	US20110643192	20110426
WO11135847 A1	20111103	WO2011JP02444	20110426

Priority:

JP20100102427 20100427 JP20100236159 20101021 JP20110095630 20110422 WO2011JP02444 20110426

Probable Assignee: ADWELDS CORP

Assignee(s): (std)**:** ADWELDS KK ; HEIMA SHOICHI ; NAKAI SEIYA ; NODA KAZUHIRO ; PMT CORP ; PMT KK ; ADWELDS CORP

Inventor(s): (std)**:** HEIMA SHOICHI ; HIRAMA SHOICHI ; NAKAI SEIYA ; NODA KAZUHIRO

Agent(s): FURIKADO SHOICHI; YANASE YUJI; YANASE YUJI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

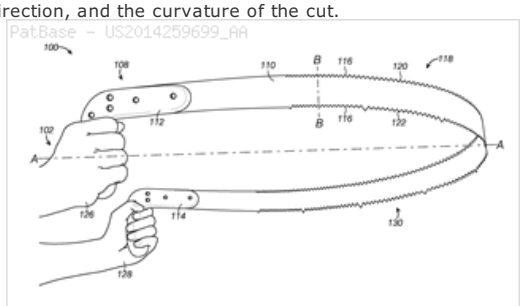
95) Family number: 57425275 (US2014259699A)

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Title: FLEXIBLE SAW BLADES AND METHODS FOR CURVATURE CUTTING

Abstract: Saws including saws configured to allow change in a width, a direction, and a curvature of a cut during a cutting operation are described. The saws include a saw blade, the saw blade being flexible along a longitudinal axis of the saw blade and inflexible along a vertical axis of the saw blade. The saw blade includes a blade body, and a plurality of cutting teeth, the plurality of cutting teeth being disposed on an upper cutting edge of the blade and a lower cutting edge of the blade body. In some examples, the saw blade is configured to be flexed by manipulation of at least two articulating points on the saw blade during the cutting operation to change one or more of the kerf, the direction, and the curvature of the cut.

Classifications:
International (IPC 8-9): B23D61/18 B26D1/46 (Advanced/Invention)
CPC: B23D49/11 B23D55/082 B26D1/46 B26D2001/0013 B27B21/04
US: 30/166.3 30/380 30/520



Family:

Publication number	Publication date	Application number	Application date
US2014259699 AA	20140918	US20140203331	20140310

Priority:

US20130851865P 20130314 US20140203331 20140310

Probable Assignee: YANG BENJAMIN

Assignee(s): (std)**:** YANG BENJAMIN

Inventor(s): (std)**:** YANG BENJAMIN

96) Family number: 63551279 (US2016263670A)

Title: TABLE SAW WITH ELECTRICALLY ISOLATED ARBOR SHAFT

Abstract: In one embodiment, a table saw assembly includes a motor assembly, an electrically conductive belt operably connected to the motor assembly, an arbor shaft operably connected to the belt, a drop arm assembly rotatably supporting the arbor shaft, and a first pulley rotatably supporting the belt, the first pulley including an inner bore and an outer surface, the first pulley configured to electrically isolate the inner bore from the outer surface.

Classifications:

International (IPC 8-9): B23D45/00 B23D45/02 B23D45/04 B23D45/06 B23D45/10 B23D47/00 B23D47/02 B23D47/04 B23D47/08 B23D47/12 B23D55/06 B23D59/00 B23Q11/00 B23Q11/08 B23Q17/00 B23Q5/54 B23Q5/58 B25F5/00 B26D5/00 B26D7/22 B26D7/26 B27B5/065 B27B5/07 B27B5/10 B27B5/16 B27B5/18 B27B5/22 B27B5/29 B27B5/30 B27B5/38 B27G19/00 B27G19/02 F16H55/36 F16H55/48 F16H57/021 F16H57/027 F16H57/032 F16H7/02 F16H7/10 F16P1/00 F16P3/12 F16P3/14 F21K9/60 F21V23/00 F21V33/00 G01R27/26 G01R29/26 G01R31/04 G01R31/08 G01R31/11 G01R31/34 G05B19/18 G05B23/00 G08B13/26 G08B21/00 G08C17/02 H01B7/00 H01B7/17 H01L25/075 H01R39/58 H05K3/00 (Advanced/Invention)

CPC: B23D45/067 B23D45/065 B23D47/12 B23D47/08 B23D59/002 B23D59/001 B23D45/06 B26D5/005 G05B19/182 G05B2219/36311 B23D59/006 B27G19/02 F16P3/12 B27B5/29 B27B5/38 G08C17/02 H01L25/075 Y10T83/773 G08B13/26 G05B2219/49159 B26D7/22 B27B5/222 G01R31/343 F16P3/148 B23D47/00 B23D47/025 G01R31/026 G01R29/26

US: 173/215 29/825 307/125 307/326 362/23.12 700/160 83/13 83/477.2 83/58



Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): (std): LALIBERTE ERIC ; MISHRA ANKUR ; RAMASWAMY BHARADWAJA MAHARSHI ; DOUMANI ROBERT ; KRISHNARAO NIRANJAN SATHYANARAYANARAO ; NEELARADDI RESHMA HANAMANTHRADDI ; PRABHU TRIVENI ; HENDRICKSON ERIC ; ROBERT BOSCH TOOL CORP ; VOLPERT DIETER ; SZWEDA TIMOTHY ; TAYLOR BRIAN ; VOONG GARY ; RAMASWAMY BHARADWAJA MARASHI ; TALESKY MARK ; AYYAMPERUMAL SEENIVASAN ; BOSCH GMBH ROBERT ; DECICCO JOHN ; CHANDRASHEKAR INDUMATHI ; BOSCH TOOL CORP

Assignee(s): BOSCH ROBERT GMBH ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL ; ROBERT BOSCH GMBH

Inventor(s): (std): TAYLOR BRIAN ; SZWEDA TIMOTHY ; DOUMANI ROBERT S ; LALIBERTE ERIC ; RAMASWAMY BHARADWAJA MARASHI ; NEELARADDI RESHMA HANAMANTHRADDI ; PRABHU TRIVENI ; KRISHNARAO NIRANJAN SATHYANARAYANARAO ; AYYAMPERUMAL SEENIVASAN ; MISHRA ANKUR ; RAMASWAMY

BHARADWAJA MAHARSHI ; CHANDRASHEKAR INDUMATHI ; VOLPERT DIETER ; HENDRICKSON ERIC ; DECICCO JOHN ; VOONG GARY L ; TALESKY MARK S ; TALESKY MARK ; VOONG GARY ; DOUMANI ROBERT ; NEELARADDI RESHMA ; KRISHNARAO NIRANJAN ; RAMASWAMY BHARADWAJA

Agent(s): FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; ISARPATENT; MAGINOT MOORE AND BECK LLP; MAGINOT PAUL J

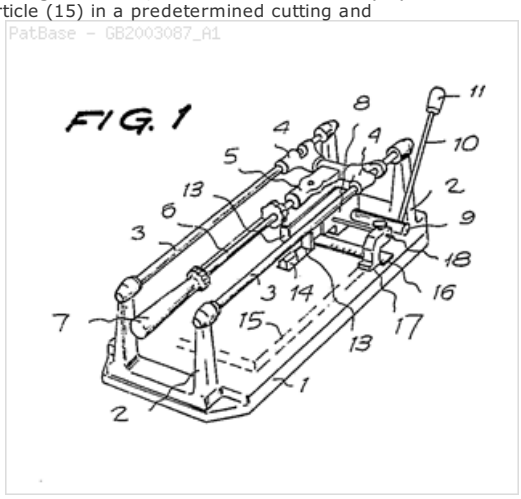
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97) Family number: 17130279 (GB2003087B)

Title: APPARATUS FOR CUTTING AN ARTICLE OF CERAMIC MATERIAL OR THE LIKE

Abstract: An apparatus for cutting an article of ceramic material or the like, especially ceramic facing pieces, comprising a platform (1) and disposed thereon cutting means carried by support 5 to cut an article (15) of ceramic material or the like to the extent of making a groove in the surface of the article (15), separating means 13, 14 to break the article (15) at the groove into separate parts, and an adjustable stop 17 to retain the article (15) in a predetermined cutting and

Classifications:
International (IPC 8-9): B28D1/22 (Advanced/Invention); B28D1/22 (Core/Invention)
International (IPC 1-7): B24B7/02 B24B7/22 B26D7/01 B26F3/00 B28B11/14 B28D1/20 B28D1/22 E04F21/00
CPC: B28D1/225
European: B28D1/22D



Family:

Publication number	Publication date	Application number	Application date
AT366621 B	19820426	AT19780005823	19780810
AT582378 A	19810915	AT19780005823	19780810
BE869670 A	19781201	BE19780189828	19780810
BR7805145 A	19790508	BR19780005145	19780810
CH625454 A	19810930	CH19780008494	19780810
DE2834232 A1	19790222	DE19782834232	19780804
ES230396 U	19771016	ES19770230396U	19770811
ES230396 Y	19780216	ES19770230396U	19770811
FR2399905 A1	19790309	FR19780023260	19780807
FR2399905 B1	19830218	FR19780023260	19780807
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IT1113149 A	19860120	IT19780026630	19780809
IT7826630 A0	19780809	IT19780026630	19780809
LU80102 A	19790119	LU19780080102	19780810
MX146722 A	19820803	MX19780174439	19780807
NL7808314 A	19790213	NL19780008314	19780808
PT68412 A	19780901	PT19780068412	19780810

Priority:

ES19770230396U 19770811

Probable Assignee: HERMANOS BOADA S A

Assignee(s): (std): BOADA HERMANOS SA ; HERMANOS BOADA S A TE RUBI SPANJE ; HERMANOS BOADA SA

Assignee(s): HERMANOS BOADA TE RUBI SPANJE SA ; HERMANOS BOADA S A

Inventor(s): (std): BOADA SUCARRATS JOAN ; JOAN BOADA SUCARRATS ; SUCARRATS J ; SUCARRATS JOAN BOADA

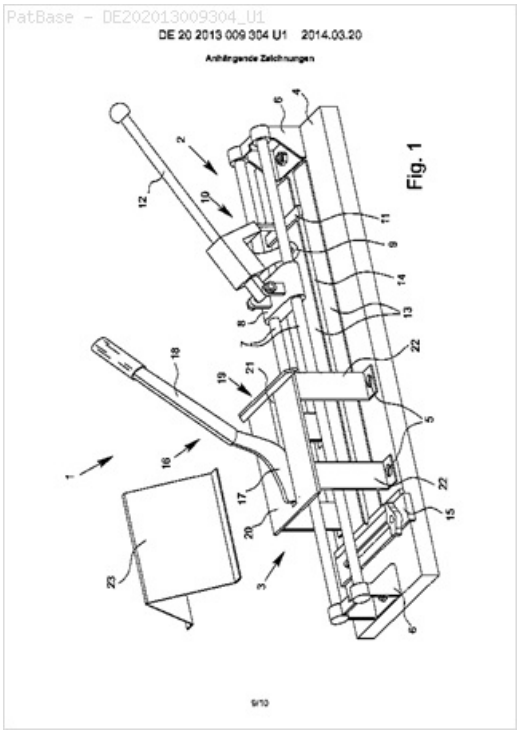
98) Family number: 55970281 (DE202013009304U1)

Title: HANDBETAETIGTE VORRICHTUNG ZUM ZERTEILEN VON PLATTEN EINES FUSSBODENBELAGS Hand operated DEVICE FOR CUTTING BOARDS OF FLOOR COVERING (Machine translation)

Abstract: Source: DE202013009304U1 [DE] Handbetaetigte Vorrichtung zum Zerteilen von Platten eines Fussbodenbelags mit einer Einrichtung (2) zum Zerteilen von Keramikfliesen (K-Einrichtung), dadurch gekennzeichnet, dass die Vorrichtung (1) eine Einrichtung (3) zum Zerteilen von Laminatfussbodenplatten (L-Einrichtung) aufweist und dass die L-Einrichtung (3) an der K-Einrichtung (2) loesbar befestigbar ist.

Machine translation: Hand operated device for dividing plates of a floor covering with a device (2) for cutting of ceramic tile (K-means), characterized in that the device (1) comprises means (3) for cutting of laminate floor panels (L) device and in that the L-device (3) on the K-means (2) is detachably fastened.

Classifications:
International (IPC 8-9): B26D1/30 B28D1/22 (Advanced/Invention)
CPC: B26D1/30 B28D1/225 B26D1/16 B26D9/00



Family:

Publication number	Publication date	Application number	Application date
DE202013009304 U1	20140320	DE201320009304U	20131022

Priority:
DE201320009304U 20131022

Probable Assignee: MEISTER WERKZEUGE GMBH
Assignee(s): (std)**:** MEISTER WERKZEUGE GMBH

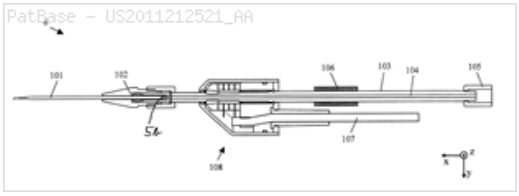
99) Family number: 49132283 (US2011212521A)

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Title: APPARATUS AND METHOD FOR GENERATING A TOOL MOTION

Abstract: The invention relates to an apparatus according to the present invention for generating the motion of a tool, in particular for the work on biological cell material, in particular for performing ICSI, comprises at least one actuator element, an actuated member, a motion section, at which can be arranged a tool and which is linked to the actuated member, the actuated member being elastically deformable, the actuator element being linked to the actuated member such that an actuation by the actuator element elastically deforms the actuated member by a distance, which corresponds to a length change of the actuated member, wherein said length change causes said motion of the motion section. Further, a corresponding method for generating a tool motion is provided.

Classifications:
International (IPC 8-9): A61B17/42 A61D19/02 A61D19/04 A61K35/52 B25J7/00 C12M1/00 C12M1/26 C12M3/00 C12N5/07 C12Q1/02 G05B15/00 H01L41/02 (Advanced/Invention)
CPC: C12M33/04
European: C12M33/04
US: 1/1 310/311 310/311S 435/325 435/325P 700/275



Family:

Publication number	Publication date	Application number	Application date
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CN102510899 B	20140910	CN201080041720	20101223
CN102725391 A	20121010	CN201080062394	20101221
CN102725391 B	20140723	CN201080062394	20101221
DE602009052287 D1	20180607	DE200960052287T	20091223
DE602010004746 D1	20130321	DE201060004746T	20100319
EP2338972 A1	20110629	EP20090015977	20091223
EP2338972 B1	20180516	EP20090015977	20091223
EP2338973 A1	20110629	EP20100002958	20100319
EP2338973 B1	20130123	EP20100002958	20100319
IN00362KN2012 A	20160826	IN2012KN00362	20120216
IN01577KN2012 A	20141031	IN2012KN01577	20120627
JP2013504334 T2	20130207	JP20120529164T	20101223
JP2013515463 T2	20130509	JP20120545153T	20101221
JP2015163069 A2	20150910	JP20150047964	20150311
JP5290470 B2	20130918	JP20120529164T	20101223
JP6174616 B2	20170802	JP20150047964	20150311
US2011212521 AA	20110901	US20100972075	20101217
US2013013115 AA	20130110	US20100510265	20101223

US9422520 BB	20160823	US20100510265	20101223
WO11076389 A1	20110630	WO2010EP07843	20101221
WO11076423 A1	20110630	WO2010EP07919	20101223

Priority:

EP20090015977 20091223 US20090289669P 20091223 EP20100002958 20100319
US20100972075 20101217 JP20120545153 20101221 JP20120545153T 20101221
WO2010EP07843 20101221 US20100510265 20101223 WO2010EP07919 20101223
JP20150047964 20150311

Probable Assignee: EPPENDORF AG

Assignee(s): (std)**:** EPPENDORF AG ; GRAFF ANDREAS ; KNOFE DIETER ; LEMBKE JENS ; SCHIRR ANDREAS

Inventor(s): (std)**:** KNOFE DIETER ; DIETER KNOFE ; JENS LEMBKE ; ANDREAS SCHIRR ; ANDREAS GRAFF ; ANDREAS S CHIRR ; S CHIRR ANDREAS ; GRAF ANDREAS ; SCHIRR ANDREAS ; LEMBKE JENS ; GRAFF ANDREAS

Agent(s): WALLINGER RICKER SCHLOTTER TOSTMANN PATENT U RECHTSANWAELTE PARTNERSCHAFT MBB; RICKER MATHIAS; Ricker Mathias; AOKI ATSUSHI; SHIMADA TETSURO; TODD A; ARNOLD AND PORTER LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

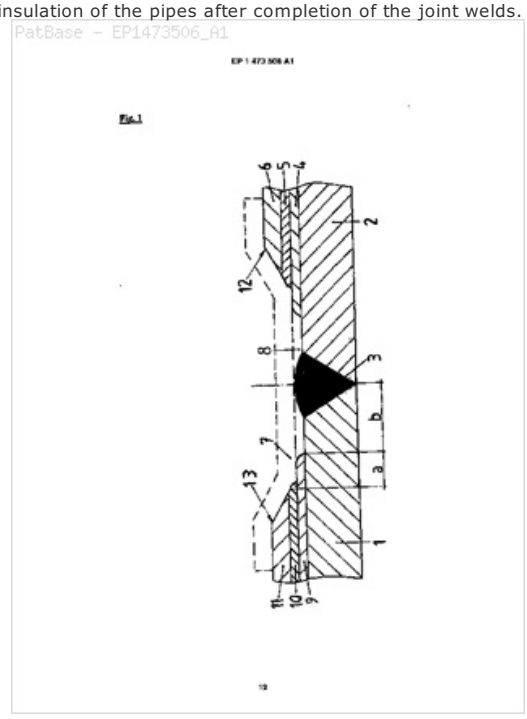
100) Family number: 31194284 (EP1473506A1)

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Title: Method for removing insulation from insulated steel pipes

Abstract: The method for joining steel pipes provided with multilayered insulation involves removal of insulation from the joint areas without damaging the epoxy resin layer on steel, and re-insulation of the pipes after completion of the joint welds.

Classifications:
International (IPC 8-9): B21C37/29 F16L59/16 F16L59/20 (Advanced/Invention); B21C37/15 (Core/Invention)
International (IPC 1-7): B26D3/06 F16L13/02 F16L41/00 F16L58/10 F16L59/16 F16L59/20
CPC: F16L13/0272 F16L58/181 B21C37/29 B26D3/001 B26D3/06 B26D3/28 B26D7/10 F16L59/163 F16L59/20
European: B21C37/29 B26D3/00B B26D3/06 B26D3/28 B26D7/10 F16L13/02F3 F16L58/18A



Family:

Publication number	Publication date	Application number	Application date
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DE10358758 A1	20041118	DE20031058758	20031211
EP1473506 A1	20041103	EP20040010078	20040428

Priority:

DE20031019963 20030502 DE20031028150 20030622 DE20031029913 20030702
DE20031051494 20031102 DE20031058758 20031211

Probable Assignee: STUCKE WALTER

Assignee(s): (std)**:** STUCKE WALTER

Inventor(s): (std)**:** STUCKE WALTER

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

101) Family number: 61886285 (FR3025739B)

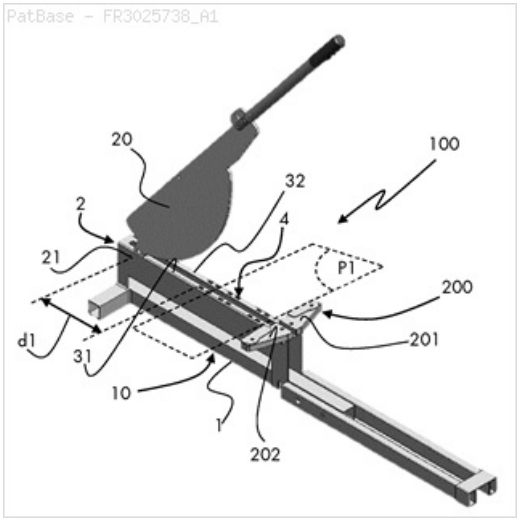
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Title: LAME POUR UN OUTIL DE DECOUPE DE PLAQUES

Abstract: Source: FR3025739A [FR] La presente invention propose une lame pour un outil de decoupe de plaques de largeurs differentes, l'outil comprenant un support sur lequel la lame est montee pivotante. La lame (20) comprend: • un tranchant plat et courbe; • un dos, oppose au tranchant; • une premiere extremite, dite « de pivot », reliant le tranchant et le rebord, et destinee a etre fixee au support de l'outil de maniere pivotante; • une seconde extremite, opposee a la premiere extremite, et comprenant un bombement convexe par rapport au dos, le bombement comportant une lumiere en L,

constituee d'une base tournee vers l'extremite de pivot et d'une aile, et une encoche; et • un manche (400) muni d'une poignee est monte pivotant sur la seconde extremite de la lame, le manche comprenant un premier ergot en prise dans la lumiere en L et un second ergot destine a cooperer avec l'encoche lorsque le manche est deplie, et destine a se bloquer entre le bombement convexe et le dos de la lame lorsque le manche est replie contre le dos de la lame.

Classifications:
International (IPC 8-9): B26D1/30 B26D7/00 B26D7/01 (Advanced/Invention)
CPC: B26D1/305 B23D17/08 B26D1/30 B26D7/00 B26D7/01 B28D1/223



Family:

Publication number	Publication date	Application number	Application date
FR3025738 A1	20160318	FR20140058529	20140911
FR3025738 B1	20180420	FR20140058529	20140911
FR3025739 A1	20160318	FR20150054960	20150601
FR3025739 B1	20161021	FR20150054960	20150601

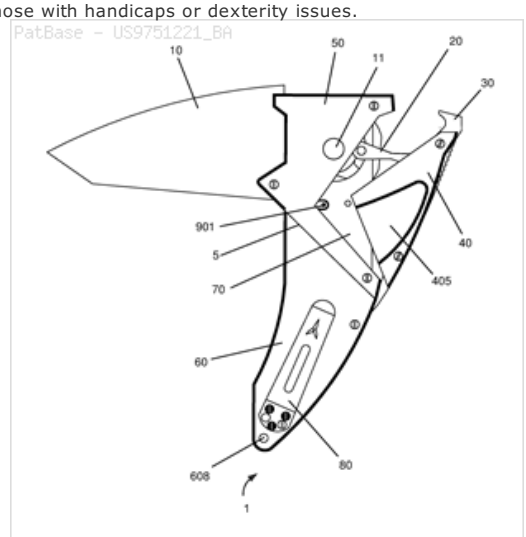
Priority:
FR20140058529 20140911 FR20150054960 20150601

Probable Assignee: PIERRE GREHAL ET CIE ETS SA
Assignee(s): (std): PIERRE GREHAL ET CIE ETS SA
Inventor(s): (std): MARCON LIONEL
Inventor(s): LIONEL MARCON
Agent(s): BE LEADER INNOVATION

102) Family number: 66853287 (US9751221B)

Title: LEVER LINK MECHANISM FOR A FOLDING KNIFE

Abstract: An ambidexterous, springless folding knife mechanism allows a user to open and close the knife with the repetition of a single motion by either hand. This knife does not require any spring to open or retract the blade back into the handle. A lever link couples the knife handle and the knife blade in a hinged manner. Slight modifications of the mechanism will permit the blade to be opened to a variety of angles depending on the positioning of the mechanism during the initial design. Such modification would allows application of the mechanism to other folding hand tools. In the preferred embodiment, the open and closed position of the blade does not require the blade to travel a full 180 degrees but locks the blade in a substantially straight position for use. The mechanism allows knife operation by those with handicaps or dexterity issues.
Classifications:
International (IPC 8-9): B26B1/04 (Advanced/Invention)
CPC: B26B1/04 B26B1/048



Family:

Publication number	Publication date	Application number	Application date
US9751221 BA	20170905	US20140486767	20140915

Priority:
US20140486767 20140915

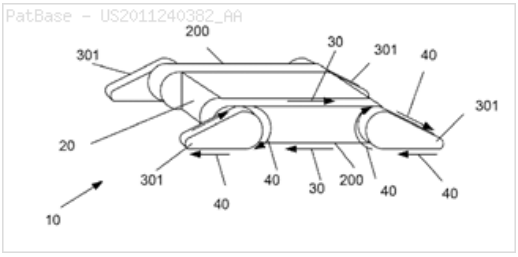
Probable Assignee: AYLSWORTH MATTHEW G
Assignee(s): (std)**:** AYLSWORTH MATTHEW G
Inventor(s): (std)**:** AYLSWORTH MATTHEW G
Agent(s): SARAH J

103) Family number: 49698291 (US2011240382A)

Title: ROBOTIC SYSTEM AND METHOD OF USE

Abstract: A robotic system that can have a body and four flippers is described. Any or all of the flippers can be rotated. The flippers can have self-cleaning tracks. The tracks can be driven or passive. The robotic system can be controlled by, and send audio and/or video to and/or from, a remote operator control module. The methods of using and making the robotic system are also described.

Classifications:
International (IPC 8-9): A63H17/14 B25J5/00 B60K11/06 B60S1/62 B60S9/21 B62D55/00 B62D55/02 B62D55/06 B62D55/065 B62D55/075 B62D55/08 B62D55/088 B62D55/12 B62D55/26 B62D57/00 B62D57/04 (Advanced/Invention)
CPC: B62D55/0885 B62D55/12 Y10S901/01 B62D55/0655 B62D55/06 B62D55/08 B62D55/075
European: B62D55/075 B62D55/088C B62D55/12
US: 1/1 180/167 180/7.1 180/7.100S 180/9.1 180/9.100P 180/9.32 180/9.42 180/9.46 305/115 901/1 901/1S



Family:

Publication number	Publication date	Application number	Application date
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CN102947145 B	20150701	CN201180028009	20110110
EP2555954 A1	20130213	EP20110766288	20110110
EP2555954 A4	20131204	EP20110766288	20110110
JP2013147247 A2	20130801	JP20130081112	20130409
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JP5247952 B2	20130724	JP20130503748T	20110110
KR101288646 B1	20130722	KR20127029166	20110110
KR20120130791 A	20121203	KR20127029166	20110110
TW201204586 A	20120201	TW20110105168	20110216
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US2011240382 AA	20111006	US20100755264	20100406
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US2012152626 AA	20120621	US20120407655	20120228
US2012152627 AA	20120621	US20120407679	20120228
US2012175173 AA	20120712	US20110233994	20110915
US2013306385 AA	20131121	US20130840957	20130315
US2016083025 AA	20160324	US20140450163	20140801
US2016176452 AA	20160623	US20140552288	20141124
US8100205 BB	20120124	US20100755264	20100406
US8157032 BB	20120417	US20100755293	20100406
US8397842 BB	20130319	US20110233994	20110915
US8434575 BB	20130507	US20120407679	20120228
US8544573 BB	20131001	US20120407655	20120228
US8813880 BB	20140826	US20130840957	20130315
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WO11126582 A1	20111013	WO2011US20688	20110110

Priority:

US20100755264 20100406 US20100755293 20100406 JP20130503748 20110110
JP20130503748T 20110110 WO2011US20688 20110110 US20110233994 20110915
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US20140450163 20140801 US20140552288 20141124

Probable Assignee: ROBOTEX INC
Assignee(s): (std)**:** GETTINGS ADAM M ; GETTINGS NATHAN D ; PENN TAYLOR J ; ROBOTEX INC ; SILER III EDWARD J ; STEVENS ANDREW G
Inventor(s): (std)**:** SILER III EDWARD J ; STEVENS ANDREW G ; GETTINGS NATHAN D ; GETTINGS ADAM M ; PENN TAYLOR J ; SILER EDWARD J III ; SILER III EDWARD JOHN ; GAWLOWSKI MATTHEW ; APPLEBY JON ; SCHNEIDER MICHAEL
Agent(s): Zinnecker Armin; LEVINE BAGADE HAN LLP; LEVINE DAVID A ET AL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

104) Family number: 12622291 (US5997681A)

Title: METHOD AND APPARATUS FOR THE MANUFACTURE OF THREE-DIMENSIONAL OBJECTS

Abstract: A method and apparatus for constructing a three-dimensional object. There is provided a lamination unit for holding and pressing a block of material; a slicing unit for cutting the block to form a horizontal layer having a first working

surface and a cut block having a second working surface; a profiling means for profiling at least one of the working surfaces into at least one planar element; and an electronic means for receiving XYZ information corresponding to the shape of the object, for processing the XYZ information into a plurality of computerized cross-sectional representations of the shape, and for controlling the operation of the lamination means, the slicing means, and the profiling means. Formation occurs by providing the electronic means with the XYZ information, placing the block in a position for holding by the lamination means; slicing the block to provide the horizontal layer having the first working surface and the cut block having the second working surface; profiling at least one of the working surfaces to form the planar element having a shape corresponding to the computerized cross-section representation at that slicing level; pressing the second working surface of the cut block against the first working surface of the horizontial layer using the lamination means; and repeating the slicing and profiling steps until the object is formed.

Classifications:

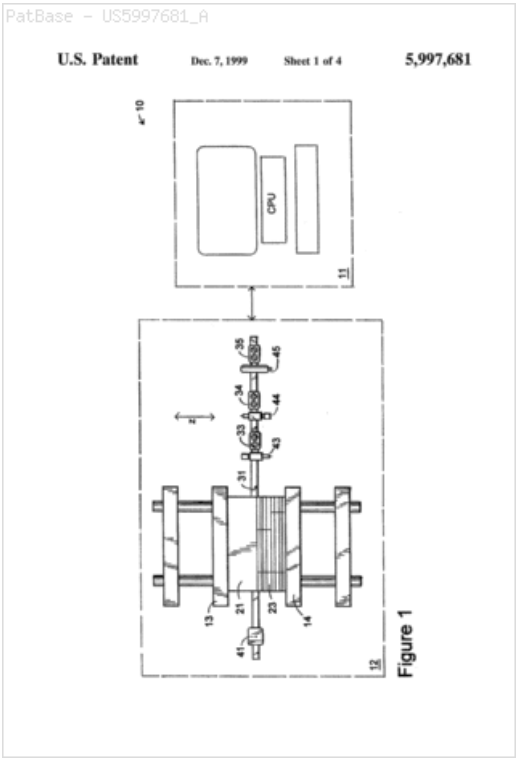
International (IPC 8-9): B29C67/00 B32B38/10 (Advanced/Invention); B29C67/00 B32B38/10 (Core/Invention)

International (IPC 1-7): B26B3/06 B32B31/00

CPC: Y10T156/1062 Y10T156/1074 Y10T156/1075 Y10T156/108 Y10T156/12 Y10T156/125 B32B2310/0843 Y10T156/1066 Y10T156/13 Y10T156/1374 B32B38/10 B33Y10/00 B33Y30/00 B33Y50/02 B29C64/141 B29C64/40

European: B29C67/00R4 B29C67/00R8D B32B31/00D10 B32B38/10 L32B310/08B6

US: 156/256 156/258 156/263 156/264 156/267 156/353 156/510 156/511 156/512 156/529 156/580 264/158 264/294



Family:

Publication number	Publication date	Application number	Application date
US5997681 A	19991207	US19970824286	19970326
US6136132 A	20001024	US19980119155	19980720

Priority:

US19970824286 19970326 US19980119155 19980720

Probable Assignee: KINZIE NORMAN F

Assignee(s): KINZIE NORMAN F

Inventor(s): (std)**:** KINZIE NORMAN F

105) Family number: 42271294 (US2008249463A)

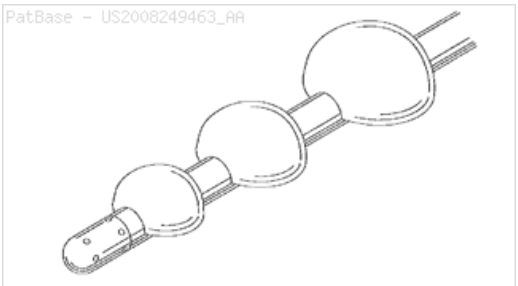
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Title: MULTI-ELECTRODE IRRIGATED BALLOON CATHETER

Abstract: A fluid delivery catheter configured to allow optimal fluid distribution through each electrode by varying the diameter of a catheter lumen is disclosed. Uniform or different fluid flow rates through longitudinally spaced apart elution holes may be achieved. Exemplary fluids for use with the catheter include a cooling fluid, a therapeutic fluid, and a medication.

Classifications:

International (IPC 8-9): A61B1/01 A61B17/00 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/16 A61B18/18 A61B19/00 A61B34/00 A61B5/00 A61B5/04 A61B5/0402 A61B5/0408 A61B5/042 A61B5/0478 A61B5/0492 A61B5/05 A61B5/06 A61B8/14 A61B90/00 A61F2/82 A61M25/00 A61M25/01 A61M25/06 A61M25/088 A61M25/092 A61M25/095 A61M25/10 A61M25/14 A61M29/02 A61M5/00 A61N1/00 A61N1/05 B23K26/38 B23K26/40 H01R43/16 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/14 A61B18/18 A61B19/00 A61B34/00 A61B5/04 A61B90/00 A61M25/01 A61M25/06 A61M25/10 A61M31/00 B26D1/00 B26D3/08 (Advanced/Non-invention); A61B18/14 A61B18/18 A61B19/00 A61B5/04 A61B5/05 A61M25/00 A61M25/01 A61M25/088 A61M25/14 A61M29/02 A61M5/00 (Core/Invention); A61B19/00 (Core/Non-invention)



CPC: A61M25/003 A61M25/007 A61M25/0071 A61M25/1002 A61M2025/0034 A61B2018/00029 A61B2018/1467 A61B2018/1497 A61B2218/002 A61M25/1011 A61M2025/1093 A61M25/0662 A61M25/0052 A61N1/056 A61B5/0538 A61B5/04007 A61B5/0536 A61B5/063 A61B5/066 A61B5/7425 A61B2562/046 A61B18/16 A61B2017/00867 A61B2018/00023 A61B2018/00351 C08L2201/12 A61B2018/1475 A61B5/0422 A61B5/6852 A61B2562/0209 A61B2562/12 A61M2025/015 A61N1/05 Y10T29/49204 A61B2217/007 A61M25/0013 A61M25/0054 A61M25/0133 A61M2025/0081 B23K26/38 B23K26/40 B26D1/00 B26D3/08 A61B2018/00839 A61M25/0026 A61M25/008 A61M25/0074 A61B2090/065 A61B2034/2051 A61B2034/2063 A61B2090/3954 A61B2090/3966 A61B5/04 A61B2018/00011 A61B2018/00101 A61B2018/00214 A61B2018/00898 A61M25/0068 A61M25/0082 A61M25/10 A61M2025/0073 A61M2025/1047 A61B5/062 A61B2018/00577 A61M25/0012 A61M25/005 A61M2025/0166 A61B90/06 A61B2018/00148 A61B2018/00154 A61B2090/064 A61B2018/1465 A61B18/18 A61M25/0069 A61B2018/00357 A61B2018/00613 A61B5/042 A61B2018/00791 A61B2018/1435 A61B2018/162 A61M25/0147 A61M2025/0681 A61B34/73 A61M25/0127 A61B18/1492 A61B2018/00404 A61B2018/00434 A61B2018/00511

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US20160390048 20161223	US20170639981 20170630	

Probable Assignee: ST JUDE MEDICAL ATRIAL FIBRILLATION DIVISION INC

Assignee(s): (std)**:** BYRD ISRAEL A ; BYRD ISRAEL ALEXANDER ; CHEN PETER ; CHEN PETER CHENG ; CLARK LYNN E ; CLARK LYNN ELEANOR ; DE LA RAMA ALAN ; HATA CARY ; PAPPONE CARLO ; IRVINE BIOMEDICAL INC ; DU WILLIAM ; FUENTES ALLAN M ; DENO D CURTIS ; FUENTES ALLAN ; GILMOUR LYNN E ; KAUPHUSMAN JAMES V ; GRASSE MARTIN M ; GONZALES SALOME A ; GRASSE MARTIN MAITRE ; GONZALEZ SALOME A ; ST JUDE MEDICAL ATRIAL FIBRILL ; SHIMIZU JARED A ; ST JUDE MEDICAL ; PAUL SAURAV ; SCHWEITZER JEFFREY A ; ST JUDE MEDICAL ATRIAL FIBRILLATION DIV INC ; WU KIRK KOCHIN ; ZHANG YONGXING ; WU KIRK ; TEGG TROY T ; STEHR RICHARD E ; ST JUDE MEDICAL LLC

Assignee(s): ST JUDE MEDICAL LLC ABBOTT PARK ; ST. JUDE MEDICAL ATRIAL FIBRILLATION DIVISION INC. ; ST. JUDE MEDICAL, INC. ; STJUDE MEDICAL ATRIAL FIBRILLATION DIVISION INC ; ST JUDE MEDICAL ATRIAL FIBRILLATION DIVSION INC ; ST JUDE MEDICAL ATRIAL FIBRILLATION DIVISION INC ST PAUL ; IRVINE BIOMEDICAL INC IRVINE

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Inventor(s): WU KIRK KOCHIN WALNUT ; ZHANG YONGXING IRVINE ; SHIMIZU JARED A CARMICHAEL ; DE LA RAMA ALAN CERRITOS ; CHEN PETER CHENG IRVINE ; HATA CARY IRVINE

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

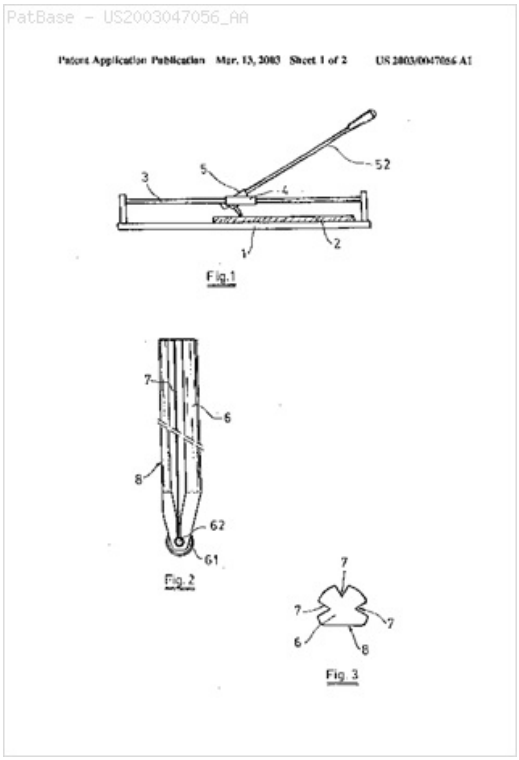
106) Family number: 34664297 (US2003047056A)

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Title: CERAMIC CUTTERS

Abstract: Said improvements can be used for cutters provided with a base to support the ceramic piece that is to be cut, longitudinal guides for displaceable assembly of a support on which a collapsible cutting wheel holder is mounted, said holder being provided with a threaded hole hole for mounting an actuating lever that makes it possible to press and displace the cutting wheel on the ceramic piece by marking the breaking or cutting line thereof. The periphery of the handle of the cutting wheel has at least three longitudinal grooves having any given geometry with the purpose of reducing the frequency of vibration thereof during grating of the ceramic pieces, and at least one longitudinal plane that is co-planar or projects inward relative to the general outer surface of the handle for actuating the end of the lever intended for the immobilization thereof in the cutting wheel holder.

Classifications:
International (IPC 8-9): B23D19/02 B26D1/04 B26D3/08 B28D1/22 B28D1/24 (Advanced/Invention);
B26D3/08 B28D1/22 (Core/Invention)
International (IPC 1-7): B26F3/00 B28D1/22
CPC: Y10T83/0385 Y10T83/9377 Y10T83/9403 Y10T83/9457 Y10T225/321 Y10T225/325 B28D1/225
European: B28D1/22D
US: 125/23.02 225/96 225/96.5 225/965 83/665 83/676 83/698.11 83/886



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Assignee(s): GERMANS BOADA S A ; GERMANS BOADA S A GERMANS BOADA S A

Inventor(s): (std): COMAS JOSEP TORRENTS ; JOSEP TORRENTS I COMAS ; TORRENS I COMAS JOSEP ; TORRENTS I COMAS JOSEP ; COMAS JOSEP TORRENTS I ; TORRENTS I COMAS

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

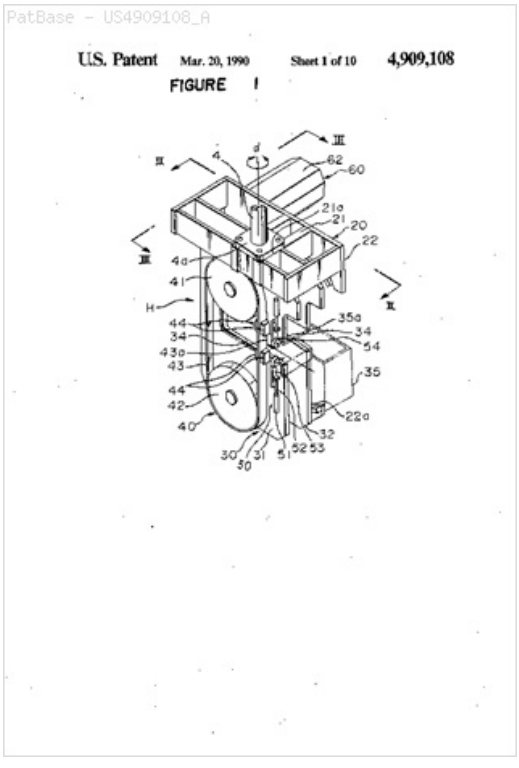
107) Family number: 3373297 (US4909108A)

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Title: MECHANICAL HAND FOR PROCESSING EDGES OF A CURVED PLATE AND AN APPARATUS FOR PROCESSING THE EDGES OF THE CURVED PLATE

Abstract: A mechanical hand for processing edges of a curved plate is attached to the hand supporting member of a robot arm and in use is moved along the edges of the curved plate, which is made of glass, ceramics, metal or the like. The mechanical hand has a fixed bracket fixed to the hand supporting member; a movable bracket supported by the fixed bracket so as to be capable of tilting around a point of processing which is determined to be on the axial line of the robot arm and which corresponds to part of the edges of the curved plate; a processing tool mounted on the movable bracket to face the part of the edges of the curved plate at the point of processing; and a driving means for causing the movable bracket to tilt so that the posture of the processing tool coincides with a surface of the edges to be processed of the curved plate at the point of processing.

Classifications:
International (IPC 8-9): B23D53/04 B23D55/04 B23D59/00 B23Q1/52 B23Q33/00 B25J15/00 B25J18/00 B26D1/46 B26D3/10 B26D7/01 B26F1/38 B32B17/10 C03B33/03 C03B33/037 C03C27/12 (Advanced/Invention);
B23D53/00 B23D55/00 B23D59/00 B23Q1/25 B23Q33/00 B25J15/00 B25J18/00 B26D1/01 B26D3/00 B26D7/01 B26F1/38 B32B17/06 C03B33/00 C03C27/12 (Core/Invention)
International (IPC 1-7): B23D53/00 B26D1/46 B26D3/10 B26D7/01 C03B33/00 C03C27/12
CPC: B26D2007/0068 B26F1/3806 B23D53/045 B23D55/04 B23D59/008 B23Q1/525 B23Q33/00 B25J15/0019 B25J18/007 B26D1/465 B26D7/01 B32B17/1099 Y10T83/18 Y10T83/7076 Y10T83/7214 Y10T83/9488
European: B23D53/04B B23D55/04 B23D59/00Z B23Q1/16C3 B23Q1/52B B23Q33/00 B25J15/00E B25J18/00F B26D1/46B B26D7/01 B26F1/38A B32B17/10L24
US: 83/699 83/699.51 83/71 83/76.9 83/789 83/812



Family:

Publication number	Publication date	Application number	Application date
EP0292971 A2	19881130	EP19880108434	19880526
EP0292971 A3	19910109	EP19880108434	19880526
JP63300889 A2	19881208	JP19870131343	19870529
US4909108 A	19900320	US19880199281	19880526

Priority:

JP19870131343 19870529

Probable Assignee: ASAHI GLASS CO LTD

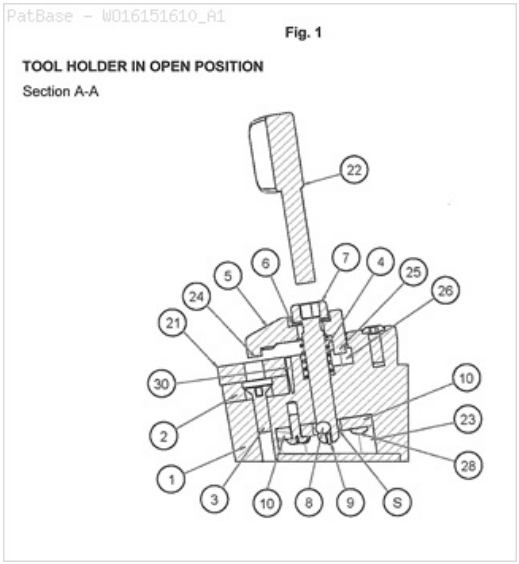
Assignee(s): (std): ASAHI GLASS CO LTD

Assignee(s): ASAHI GLASS COMPANY LTD
Inventor(s): (std)**:** NAKAI KOICHIRO ; NAKADA MICHIHARU
Designated states: DE FR IT

108) Family number: 63675306 (WO16151610A1)

Title: TOOL HOLDER, IN PARTICULAR TURNING TOOL HOLDER, WITH RAPID LOCKING SYSTEM FOR INTERCHANGEABLE INSERTS

Abstract: A tool holder, in particular a turning tool holder, is equipped with a rapid locking system (4 to 10 inclusive) for the mechanical fastening of interchangeable inserts (21) to the tool holder body (1). The inserts may be made of Tungsten Carbide, Cermet, Ceramics, PCBN (Diamond Cubic Boron Nitride) or PCD (Polycrystalline Diamond). The rapid locking system (4 to 10) consists of a clamp (5), a drive pin (7) and a cylindrical pin (8) mounted on the drive pin (7). The cylindrical pin (8) extends radially with respect to the drive pin (7) and cooperates with two cams (10), each of which is equipped with a helical section (S) developed on an arc of 90 degrees. The cams (10) and the cylindrical pin (8) of the rapid locking system (4 to 10) are located inside a housing seat (23) formed in the tool holder body (1). The rapid locking system (4 to 10) allows an interchangeable insert (21) to be locked to the tool holder body (1) through a rapid action that allows a reduction of the time needed to index or to replace the insert (23).
Classifications:
International (IPC 8-9)**:** B23B27/16 B25B5/08 (Advanced/Invention)
CPC: B23B27/1677 B23B2240/04 B23B2260/02



Family:

Publication number	Publication date	Application number	Application date
EP3274116 A1	20180131	EP20160725248	20160321
WO16151610 A1	20160929	WO2016IT00069	20160321

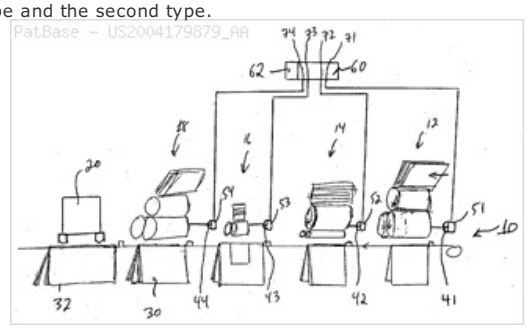
Priority:
IT2015VE00011 20150323 WO2016IT00069 20160321

Probable Assignee: FERRARESSO CLAUDIO
Assignee(s): (std)**:** FERRARESSO CLAUDIO
Inventor(s): (std)**:** FERRARESSO CLAUDIO
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

109) Family number: 31166314 (US2004179879A)

Title: DEVICE AND METHOD FOR IDENTIFYING MODULES IN A GRAPHICS MACHINE

Abstract: A method for detecting a type of one of plurality of devices attached to a graphics machine, each device being one of at least a first type and a second type, the method comprising detecting at a controller the type of device attached to or to be attached to the machine. The controller is capable of preadjusting the device or machine as a function of the detection A graphics machine includes a controller, a first device connected to the controller, the first device being categorizable as one of at least a first type and a second type, the controller detecting the type of the first device, and a memory accessible by the controller, the memory storing information regarding the first type and the second type.
Classifications:
International (IPC 8-9)**:** B26B21/56 B26B3/06 B26B3/08 B26B5/00 B26B9/02 B41F1/54 B41F33/00 B41L49/00 B42C1/00 G05B19/042 G09G5/00 (Advanced/Invention);
B41F33/00 (Advanced/Non-invention);
B26B21/00 B26B3/00 B26B5/00 B26B9/00 B41F1/00 B41L49/00 G09G5/00 (Core/Invention);
B26B (Subclass/Invention)
International (IPC 1-7)**:** B26B21/56 B26B3/06 B26B3/08 B26B9/02 B41F33/00 B42C1/00 G05B19/042 G09G5/00
CPC: B26B5/00 B26B9/02 H01R13/6616 B41F33/0009 G05B19/042 G05B2219/25072 G05B2219/25101 G05B2219/25296 G05B2219/2646 Y10S439/955
European: B26B5/00 B26B9/02 B41F33/00A G05B19/042 H01R13/66B2 S05B219/25072 S05B219/25101 S05B219/25296 S05B219/2646



US: 101/480 101/484 101/494 30/162 30/355 400/61 400/61P 439/955

Family:

Publication number	Publication date	Application number	Application date
EP1457847 A2	20040915	EP20040003474	20040217
EP1457847 A3	20100113	EP20040003474	20040217
JP2004268588 A2	20040930	JP20040065665	20040309
US2004179879 AA	20040916	US20040796671	20040309
US2004187314 AA	20040930	US20040796761	20040309
US2008060539 AA	20080313	US20070978801	20071030
US2009211479 AA	20090827	US20090387264	20090430
US7444936 BB	20081104	US20070978801	20071030
US7533611 BB	20090519	US20040796671	20040309
US8191474 BB	20120605	US20090387264	20090430
WO04080668 A2	20040923	WO2004US07165	20040310
WO04080668 A3	20050421	WO2004US07165	20040310

Priority:

US200304533356P 20030310 US20030453452P 20030310 US20040796671 20040309
US20040796761 20040309 US20070978801 20071030 US20090387264 20090430

Probable Assignee: GOSS INT AMERICAS INC

Assignee(s): (std): FOLEY KEITH EDWARDS ; HEIDELBERGER DRUCKMASCHINENAG ; HEIDELBERGER DRUCKMASCH AG ; HEIDELBERG WEB SYSTEMS INC ; HARRIS CRAIG STEVEN ; GUARALDI GLENN ALAN ; JOHNSON DARIAN A ; GOSS INT AMERICAS INC ; GOSS INTERNAT AMERICA INC

Assignee(s): HEIDELBERGER DRUCKMASCHINEN AKTIENGESELLSCHAFT ; GOSS INT ASIA PACIFIC INC ; HEIDELBERGER DRUCKMASCHINENAKTIENGESELLSCHAFT ; US BANK NATIONAL ASSOCIATION AS COLLATERAL AGENT ; NEW TOOL TECHNOLOGIES INC ; US BANK NA ; US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; SHANGHAI ELECTRIC GROUP CORP ; HEIDELBERGER DRUCKMAS AG ; HEIDELBERGER DRUCKMASCHINEN AG ; GOSS INTERNATIONAL AMERICAS INC ; GOSS INTERNATIONAL ASIA PACIFIC INC ; GOSS INTERNATIONAL AMERICA INC ; GOSS INT ; GOSS INT AMERICA INC

Inventor(s): (std): FOLEY KEITH E ; GUARALDI GLENN A ; HARRIS CRAIG S ; JOHNSON DARIAN A ; HARRIS CRAIG STEVEN ; GUARALDI GLEEN ALAN ; FOLEY KEITH EDWARDS ; FOLEY KEITH EDWARD ; GUARALDI GLENN ALAN ; CRAIG STEVEN HARRIS

Inventor(s): GUARALDI GLENN ; FOLEY KEITH ; HARRIS CRAIG

Agent(s): FRANZEN PETER; DAVIDSON DAVIDSON AND KAPPEL LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

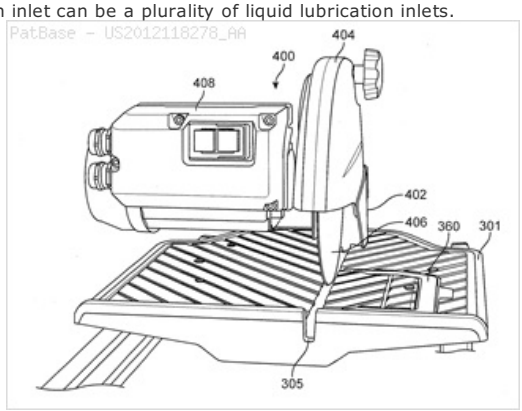
110) Family number: 46868315 (US2012118278A)

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Title: CUTTING MACHINE WITH A LIQUID LUBRICATION DELIVERY SYSTEM HAVING A CONTROLLED LIQUID LEVEL

Abstract: A cutting machine having a liquid lubrication delivery system. The machine includes a work-piece platform having an upper surface for supporting a work-piece thereupon. The work-piece platform can further include a main channel defining a recess in the upper surface. At least one liquid lubrication inlet for discharging liquid into the main channel can also be present on the work-piece platform. The at least one liquid lubrication inlet can be a plurality of liquid lubrication inlets.

Classifications:
International (IPC 8-9): B26D7/08 B28D1/04 B28D7/02 B28D7/04 (Advanced/Invention); B28D1/02 B28D7/00 (Core/Invention)
CPC: B24B27/06 B24B55/02 B26D1/143 B26D1/153 B26D7/088 B28D1/047 B28D7/02 B23D47/025 B23D59/02 B28D7/04 Y10T83/04 Y10T83/293
European: B23D47/02B B23D59/02 B24B27/06 B24B55/02 B26D7/08D B28D1/04G B28D7/02 B28D7/04 L26D1/143 L26D1/153
US: 125/35 125/35P 83/13 83/13S 83/171 83/171S



Family:

Publication number	Publication date	Application number	Application date
CA2755807 AA	20100923	CA20102755807	20100317
CA2755807 C	20170725	CA20102755807	20100317
EP2408602 A1	20120125	EP20100709675	20100317
US2012118278 AA	20120517	US20110236547	20110919
WO10107425 A1	20100923	WO2009US37352	20090317
WO10107937 A1	20100923	WO2010US27691	20100317

Priority:

WO2009US03735 20090317 WO2009US37352 20090317 WO2010US27691 20100317
US20110236547 20110919

Probable Assignee: HUSQVARNA AB

Assignee(s): (std): ANDERSSON JOHAN ; ELMESTRAND KARL ; HUSQVARNA AB ; LA BANCO SAM ; REEDY MICHAEL ; VAVRICEK ELMER ; VETTE TIMOTHY

Inventor(s): (std): LA BANCO SAM ; VAVRICEK ELMER ; VETTE TIMOTHY ; ANDERSSON JOHAN ; ELMESTRAND KARL ; REEDY MICHAEL

Agent(s): RIDOUT AND MAYBEE LLP; DRUCE TRACY W; DRUCE TRACY W ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

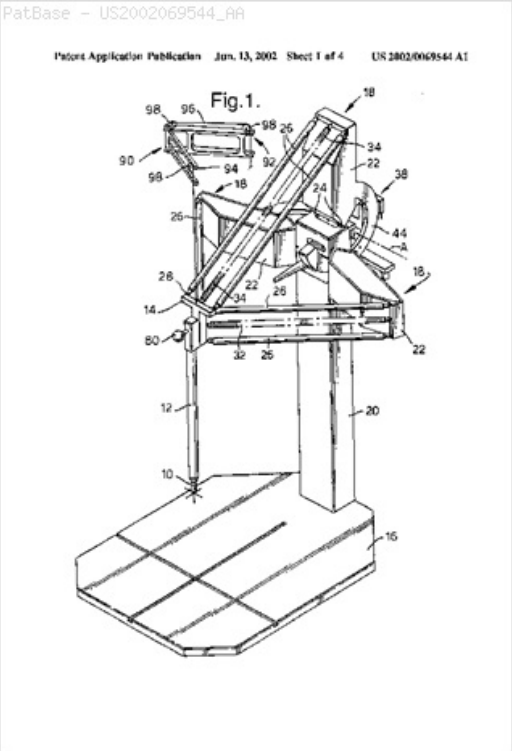
111) Family number: 28256319 (US2002069544A)

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Title: COUNTERBALANCED COORDINATE POSITIONING MACHINE

Abstract: A coordinate positioning machine has an operating module such as a tool or probe (10) mounted for translational motion relative to a table (16) with three degrees of freedom by means of three articulated linkages (18). Each of the linkages is made up of a torsion box (22) which is pivotally mounted to a vertical pillar (20) with one degree of freedom, and a pair of struts (26), each of which is pivotally mounted with two degrees of freedom to the torsion box at one end, and to the operating module at the other. The linkages cooperate to prevent all rotational motion of the operating module, while allowing translation. Motion of the operating module is actuated manually, and the mass thereof is counterbalanced by an articulated counterbalance arm which guides a cable that is in turn connected to a fusee. Displacement of the operating module is measured using scale and readhead encoders. Motion of the operating module can be restricted to a single plane by means of locking devices operating between the struts, thereby to enable scanning of a surface in a series of parallel planes.

Classifications:
International (IPC 8-9): B25J17/02 B25J19/00 G01B21/20 G01B5/008 G01B5/012 G01B5/20 (Advanced/Invention)
International (IPC 1-7): B01B5/008 G01B5/008 G01B5/012 G01B5/20
CPC: B25J9/0039 B25J17/0266 B25J19/0016 G01B5/008 G01B5/012
European: B25J17/02F2 B25J19/00D4 G01B5/008 G01B5/012
US: 33/503 33/503P 33/555 335/30



Family:

Publication number	Publication date	Application number	Application date
CN1240989 C	20060208	CN19988001920	19981120
CN1244252 A	20000209	CN19988001920	19981120
CN1308648 C	20070404	CN200410076903	19981120
CN1573277 A	20050202	CN200410076903	19981120
DE69833044 D1	20060202	DE19986033044	19981120
DE69833044 D1	20060202	DE19986033044T	19981120
DE69833044 T2	20060713	DE19986033044T	19981120
EP1073875 A1	20010207	EP19980955750	19981120
EP1073875 B1	20051228	EP19980955750	19981120
EP1612506 A2	20060104	EP20050077030	19981120
EP1612507 A2	20060104	EP20050077031	19981120
EP1612508 A2	20060104	EP20050077032	19981120
GB9724453 A0	19980114	GB19970024453	19971120
JP2001508548 T2	20010626	JP19990527931T	19981120
JP4130485 B2	20080806	JP19990527931T	19981120
US2002069544 AA	20020613	US19990341332	19990709
US6397485 BA	20020604	US19990341332	19990709
WO9927320 A1	19990603	WO1998GB03482	19981120

Priority:

GB19970024453 19971120 EP19980955750 19981120 WO1998GB03482 19981120

Probable Assignee: RENISHAW PLC

Assignee(s): (std): MCMURTRY DAVID ROBERTS ; RENISHAW PLC

Assignee(s): RENISHAW PLC NEW MILLS WOOTON UNDER EDGEGLOUCESTER ; RENISHAW PLC WOTTON UNDER EDGE ; MCMURTRY DAVID R

Inventor(s): (std): D R MCMURTRY ; MCMURTRY DAVID ROBERTS ; MCMURTRY ROBERTS ; MCMURTY DAVID ROBERTS ;

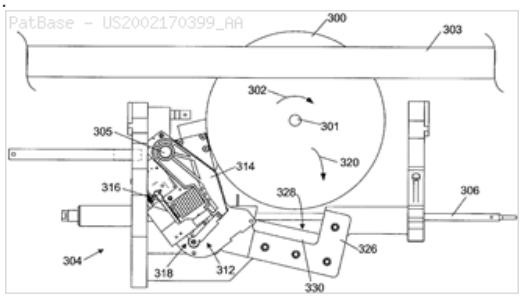
MCMURTRY DAVID R ; MCMURTRY D R

Designated states: AT BE CH CN CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE US

112) Family number: 43875324 (US2002170399A)

Title: SAFETY SYSTEMS FOR POWER EQUIPMENT

Abstract: Machines with safety systems are disclosed. The machine may take the form of woodworking machines including table saws, band saws, miter saws, hand-held circular saws, pneumatic chop saws, radial-arm saws, jointers, planars, routers and shapers. The machines may include an operative structure configured to perform a task, where the operative structure includes a cutting tool adapted to move in at least one motion, and a safety system adapted to detect the occurrence of an unsafe condition between a person and the cutting tool and for mitigating the unsafe condition. The safety system may include a detection subsystem and a reaction subsystem.



Classifications:
International (IPC 8-9): B23D47/08 B23D59/00 B23Q11/06 B26D7/24 B27B13/14 B27B13/16 B27B5/38 B27G19/00 B27G19/02 B27G21/00 F16P3/12 F16P3/14 G05B19/4061 G05B9/02 (Advanced/Invention);
F16D127/00 (Advanced/Non-invention);
B23D59/00 B23Q11/06 B27B13/00 B27B5/00 B27G19/00 B27G21/00 F16P3/00 G05B19/406 (Core/Invention)
International (IPC 1-7): B27B13/00
CPC: B27B13/16 B23D59/001 B27B5/38 B27B13/14 B27G19/00 B27G19/02 B27G21/00 F16D2127/008 F16P3/12 F16P3/144 F16P3/145 F16P3/147 F16P3/148 G05B19/4061 G05B2219/45044 G05B2219/49141 G05B2219/49159 Y10T83/089 Y10T83/704
European: B23D59/00B B27B13/14 B27B13/16 B27B5/38 B27G19/00 B27G19/02 B27G21/00 F16P3/12 F16P3/14 G05B19/4061 R16D127/00F S05B219/45044 S05B219/49141 S05B219/49159
US: 83/62.1 83/62.100P 83/781 83/781S 83/DIG.001 83/DIG.1 83/DIG.1S

Family:

Publication number	Publication date	Application number	Application date
US2002170399 AA	20021121	US20020100211	20020313
US9724840 BB	20170808	US20020100211	20020313

Priority:

US19990157340P 19991001 US20000182866P 20000216 US20000225056P 20000814
US20000225057P 20000814 US20000225058P 20000814 US20000225059P 20000814
US20000225089P 20000814 US20000225094P 20000814 US20000225169P 20000814
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US20000233459P 20000918 US20000676190 20000929 US20010270011P 20010220
US20010270941P 20010222 US20010270942P 20010222 US20010273177P 20010302
US20010273178P 20010302 US20010273902P 20010306 US20010275583P 20010313
US20010275594P 20010313 US20010275595P 20010313 US20020100211 20020313

Probable Assignee: SD3 LLC

Assignee(s): (std): GASS STEPHEN F ; SD3 LLC

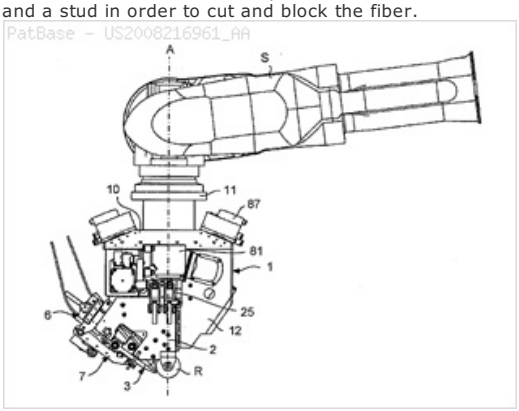
Assignee(s): SAWSTOP HOLDING LLC ; D ASCENZO DAVID S ; FANNING DAVID A ; FULMER J DAVID

Inventor(s): (std): D ASCENZO DAVID S ; FANNING DAVID A ; GASS STEPHEN F ; FULMER J DAVID

113) Family number: 42146327 (US2008216961A)

Title: APPLICATOR HEAD FOR FIBERS WITH SYSTEMS OF CUTTING AND LOCKING PARTICULAR FIBERS

Abstract: A head for applying fibers in order to make components of composite materials, intended to be mounted at the end of a displacement system for applying to a surface a wide strip formed of a number of fibers. The head comprises an application roller, means for guiding fibers on said roller, cutting means including blades activated by activation systems for cutting the fibers upstream of the application roller, and blocking means including blocking studs activated by activation systems so as to block the fibers that have just been cut. The studs and the blades are activated by common activation systems which, for each fiber to be cut and blocked, displace a blade and a stud in order to cut and block the fiber.



Classifications:
International (IPC 8-9): B26D1/08 B26D5/08 B26D5/12 B26D7/14 B26D7/26 B29C70/06 B29C70/38 B29C70/54 B32B37/00 (Advanced/Invention);
B29K101/00 (Advanced/Non-invention);
B26D1/01 B26D5/08 B26D7/08 B29C70/04 B29C70/06 B32B37/00 (Core/Invention)
CPC: B26D1/085 B26D5/12 B26D7/2614 B29C70/384 B29C70/545 B26D7/14
European: B26D1/08B B26D7/26B B29C70/38B2 B29C70/54D L26D5/12 L26D7/14
US: 156/391

Family:

Publication number	Publication date	Application number	Application date
BRPI0808643 A2	20140812	BR2008PI08643	20080303
CA2676938 AA	20090729	CA20082676938	20080303
CN101657319 A	20100224	CN200880007054	20080303

DE602008032104 D1	20140618	DE200860032104T	20080303
EP2121289 A2	20091125	EP20080775619	20080303
EP2121289 B1	20140507	EP20080775619	20080303
FR2913366 A1	20080912	FR20070001627	20070306
FR2913366 B1	20090501	FR20070001627	20070306
JP2010522099 T2	20100701	JP20090552244T	20080303
KR20100015405 A	20100212	KR20097020884	20080303
RU2009136685 A	20110420	RU20090136685	20080303
US2008216961 AA	20080911	US20070740060	20070425
WO08132301 A2	20081106	WO2008FR00276	20080303
WO08132301 A3	20081224	WO2008FR00276	20080303

Priority:

FR20070001627 20070306 EP20080775619 20080303 WO2008FR00276 20080303

Probable Assignee: CORIOLIS COMPOSITES

Assignee(s): (std): CORIOLIS COMPOSITES ; CORIOLIS COMPOSITES FR ; CORIOLIS COMPOSITES SA ; HARDY YVAN ; HAMLYN ALEXANDER

Assignee(s): CORIOLIS COMPOSITES SOCIETE ANONYME ; CORIOLIS COMPOSITES ATTN OLIVIER BOUROULLEC

Inventor(s): (std): ALEXANDER HAMLYN ; YVAN HARDY ; HARDY YVAN ; HAMLYN ALEXANDER

Agent(s): SMART AND BIGGAR; BENTZ JEAN PAUL; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; BENTZ JEAN PAUL ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

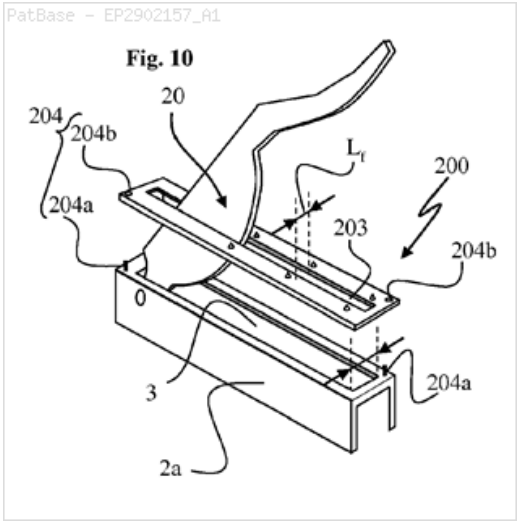
114) Family number: 60003329 (EP2902157B1) © PatBase

Title: PLATE CUTTING TOOL, IN PARTICULAR MADE OF RECONSTITUTED MATERIAL OUTIL DE DECOUPE DE PLAQUE NOTAMMENT EN MATERIAU RECONSTITUE

Abstract: Source: EP2902157A1 [FR] La presente invention propose un outil (200) de coupe de plaques economique et performante, l'outil comprenant: €¢ un support, €¢ une lame (20), de largeur de lame determinee, montee pivotante sur le support par un pivot, entre une position ouverte pour recevoir, entre le support et la lame (20), la plaque qui doit etre decoupee, et une position fermee a la fin d'une decoupe, €¢ une fente (3), portee par une portion (2a) du support, et destinee a recevoir au moins une partie de la lame au cours de la coupe, la fente (3) comprenant deux bords longitudinaux espaces l'un de l'autre par une largeur de fente (Lfmax) strictement superieure a la largeur de lame de sorte que la lame (20) est espacee de chaque bord longitudinal de la fente (3) et n'entre pas en contact avec lesdits bords longitudinaux de la fente pendant le passage de la position ouverte a la position fermee. L'outil comprend un capot (200) monte de maniere amovible sur la portion (2a) du support (10), le capot comprenant une fente de largeur (Lf) inferieure a la largeur (Lfmax) de la fente du support et superieure a la largeur (Lt) de la lame (20).

Machine translation: The present invention provides a tool (200) cutting economic and efficient plates, the tool comprising: a € ¢ support, € ¢ a blade (20) determined blade width, swivel on the support montee by a pivot between an open position to receive, between the support and the blade (20), the plate to be cut, and a closed position at the end of a decoupe, € ¢ a slot (3), per litter a portion (2a) of the carrier, and for receiving at least a portion of the blade during cutting, the slot (3) comprising two longitudinal edges spaced from each other by a gap width (Lfmax) strictly greater than the blade width so that the blade (20) is spaced from each longitudinal edge of the slot (3) and does not come into contact with said longitudinal edges of the slot during the passage from the open position to the closed position. The tool includes a cover (200) removably mounted on the portion (2a) of the support (10), the cover including a slot width (Lf) less than the width (Lfmax) of the slot of the support and above the width (Lt) of the blade (20).

Classifications:
International (IPC 8-9): B26D1/30 B28D1/22 (Advanced/Invention)
CPC: B26D1/30 B26D2001/0066



Family:

Publication number	Publication date	Application number	Application date
DE602015000345 D1	20161110	DE201560000345T	20150129
DK2902157 T3	20161121	DK20150152973T	20150129
EP2902157 A1	20150805	EP20150152973	20150129
EP2902157 B1	20160921	EP20150152973	20150129
FR3016822 A1	20150731	FR20140050738	20140130

Priority:

FR20140050738 20140130 EP20150152973 20150129

Probable Assignee: PIERRE GREHAL ET CIE ETS SA

Assignee(s): (std): PIERRE GREHAL ET CIE ETS SA

Inventor(s): (std): MARCON LIONEL

Inventor(s): LIONEL MARCON

Agent(s): RATABOUL XAVIER; BE LEADER INNOVATION

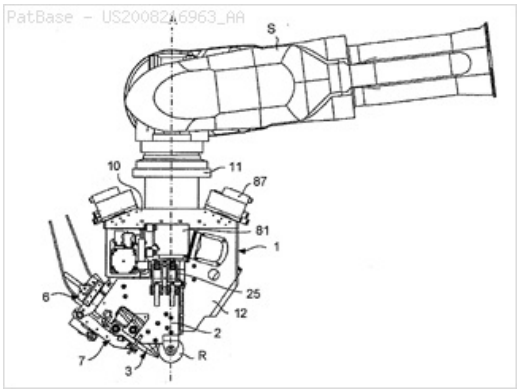
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

115) Family number: 42146332 (US2008216963A)

Title: APPLICATOR HEAD FOR FIBERS WITH PARTICULAR SYSTEMS FOR CUTTING FIBERS

Abstract: The present invention relates to a head for applying fibers in order to make components of composite materials, intended to be mounted at the end of a displacement system for applying to a surface a wide strip formed of a number of fibers. The head comprises an application roller for applying fibers in the form of a strip, means for guiding fibers on said roller, and cutting means including blades activated by activation systems between a rest position and an active cutting position so as to cut the fibers upstream of the application roller. Said blades and associated activation systems are all placed on the side of the roller relative to said fibers.

Classifications:
International (IPC 8-9): B26D1/08 B26D5/12 B26D7/14 B29C65/00 B29C65/50 B29C70/06 B29C70/38 B29C70/54 B32B37/00 B32B38/04 D06H7/00 (Advanced/Invention);
B26D1/01 B26D5/08 B26D7/08 B29C70/04 B29C70/06 B32B38/04 D06H7/00 (Core/Invention)
CPC: Y10T156/1062 Y10T156/1064 Y10T156/12 Y10T156/125 Y10T156/1317 Y10T156/1322 Y10T156/1348 Y10T156/1365 B29C70/384 B26D1/085 B26D7/2614 B29C70/545 B26D5/12 B26D7/14
European: B26D1/08B B26D7/26B B29C70/38B2 B29C70/54D L26D5/12 L26D7/14
US: 156/256 156/257 156/510 156/511 156/516 156/517 156/523 156/527



Family:

Publication number	Publication date	Application number	Application date
BRPI0808646 A2	20140812	BR2008PI08646	20080303
CA2676936 AA	20090729	CA20082676936	20080303
CN101657318 A	20100224	CN200880007034	20080303
CN101657318 B	20121226	CN200880007034	20080303
DE602008041679 D1	20160211	DE200860041679T	20080303
EP2134532 A2	20091223	EP20080775617	20080303
EP2134532 B1	20151223	EP20080775617	20080303
FR2913365 A1	20080912	FR20070001626	20070306
FR2913365 B1	20130726	FR20070001626	20070306
JP2010520382 T2	20100610	JP20090552242T	20080303
JP5090473 B2	20121205	JP20090552242T	20080303
KR20100015407 A	20100212	KR20097020897	20080303
RU2009136687 A	20110420	RU20090136687	20080303
RU2476320 C2	20130227	RU20090136687	20080303
US2008216963 AA	20080911	US20070740064	20070425
US7926537 BB	20110419	US20070740064	20070425
WO08132299 A2	20081106	WO2008FR00274	20080303
WO08132299 A3	20081224	WO2008FR00274	20080303

Priority:

FR20070001626 20070306 EP20080775617 20080303 WO2008FR00274 20080303

Probable Assignee: CORIOLIS COMPOSITES

Assignee(s): (std): CORIOLIS COMPOSITES ; CORIOLIS COMPOSITES ATTN OLIVIER BOUROULLEC ; CORIOLIS COMPOSITES FR ; CORIOLIS COMPOSITES SA ; HARDY YVAN ; HAMLYN ALEXANDER ; KORIOLI KOMPOZIT

Assignee(s): CORIOLIS COMPOSITES SOC ANONYME ; CORIOLIS GROUP ; CORIOLIS COMPOSITES SOCIETE ANONYME

Inventor(s): (std): AMLIN ALEKSANDR ; ARDI IVAN ; HAMLYN ALEXANDER ; HARDY YVAN ; YVAN HARDY ; ALEXANDER HAMLYN

Agent(s): SMART AND BIGGAR; HAYS BERTRAND; CORIOLIS COMPOSITES; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA; PATTERSON THUENTE CHRISTENSEN PEDERSEN PA; BENTZ JEAN PAUL ET AL

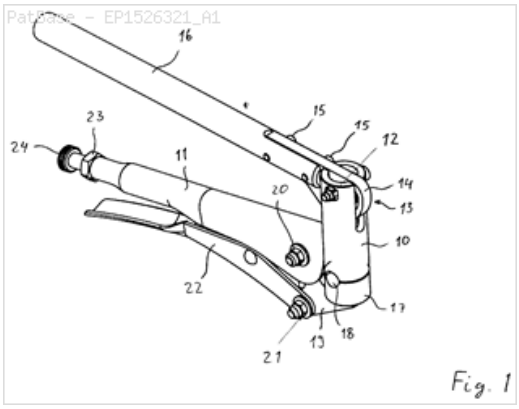
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

116) Family number: 31841338 (EP1526321B1)

Title: Tool for producing a hole in a fluid line

Abstract: Tool for producing an opening in the wall of a fluid line, especially a metal tube for pressurized water, comprises a holder (18) for the line, a perforated stamp (28) for penetrating the wall, a hand-operated lever (16) for operating the stamp, and a fixing units for fixing the fluid line in the holder. Preferred Features: The holder is formed in a clamping jaw fixed to a base. Adjusting units (23, 24) adjust the fixing force. The perforated stamp is arranged to slide in a housing (10) for the holder.

Classifications:
International (IPC 8-9): B21D28/28 F16L41/06 (Advanced/Invention); B21D28/24 F16L41/00 (Core/Invention)
International (IPC 1-7): B26F1/32 B26F1/36 F16L41/06
CPC: B21D28/28 F16L41/065
European: B21D28/28 F16L41/06B



Family:

Publication number	Publication date	Application number	Application date
AT355487 E	20060315	AT20040104943T	20041008
DE102004003015 A1	20050616	DE200410003015	20040120
DE502004003015 D1	20070412	DE200450003015T	20041008
EP1526321 A1	20050427	EP20040104943	20041008
EP1526321 B1	20070228	EP20040104943	20041008

Priority:
DE20031009214 20031020 DE20031049214 20031020 DE200410003015 20040120

Probable Assignee: AKE ZENTRI JET KENTER GMBH

Assignee(s): (std): AKE ZENTRI JET KENTER GMBH ; ZENTRI JET KENTER GMBH

Inventor(s): (std): KENTER ALFONS

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

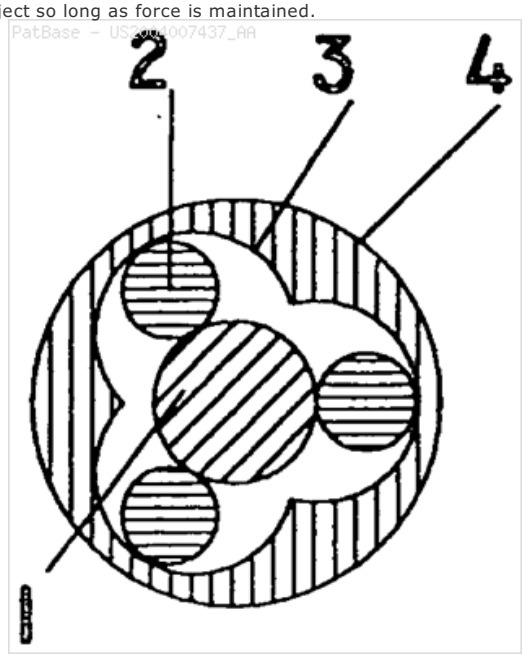
117) Family number: 14590342 (US2004007437A)

© PatBase

Title: MECHANICAL COUPLING DEVICES

Abstract: It is already common in many devices like spanners or pipe wrenches for the pressure between the gripping faces and gripped faces to be related to the torsional load that is applied to turn the gripped object. In these apparatus the grip can be made to relax automatically as the load is removed. The invention relates to improvements in such devices, and to novel designs of mechanical coupling devices that utilise this basic idea. More specifically, the invention firstly proposes a method of improving the performance of an object-gripping tool of the cam-operated gripper-element type, in which method there is applied to the gripper surface a friction-enhancing chemical. And it secondly proposes object-coupling apparatus which includes a body-mounted object-gripper together with a gripper-moving cam device having a cam member that is forced to bear against both the gripper and the body so as to urge the gripper into gripping contact with the object, the resulting friction between the body, cam member and gripper being enhanced by a prior chemical treatment, and so being sufficient to prevent the cam member reversing and the gripper releasing the object so long as force is maintained.

Classifications:
International (IPC 8-9): B23B31/16 B23B31/171 B23B31/22 B25B13/44 B25B13/46 B25B13/50 B25B23/00 B25B9/00 (Advanced/Invention);
B23B31/12 B25B13/00 B25B23/00 B25B9/00 (Core/Invention)
International (IPC 1-7): B25B13/44 B25B13/46 B25B13/50 B25G3/02 F16D43/204
CPC: Y10T279/17196 Y10T279/17717 Y10T279/1986 Y10T279/35 B25B13/462 B23B31/1612 B23B31/223 B25B9/00 B25B13/44 B25B13/461 B25B23/0035 B25B23/0042
European: B23B31/16F B23B31/22C B25B13/44 B25B13/46B B25B13/46B1 B25B23/00A4 B25B23/00A5 B25B9/00
US: 192/38 192/38P 279/123 279/123P 279/158 279/158S 279/3 279/30 279/30S 279/71 279/71P



Family:

Publication number	Publication date	Application number	Application date
AU2001248627 AA	20011107	AU20010248627	20010420
AU200148627 A1	20011107	AU20010048627	20010420

AU200148627 A5	20011107	AU20010048627D	20010420
DE60120951 D1	20060803	DE20016020951	20010420
DE60120951 D1	20060803	DE20016020951T	20010420
DE60120951 T2	20070118	DE20016020951T	20010420
EP1274545 A1	20030115	EP20010921659	20010420
EP1274545 B1	20060621	EP20010921659	20010420
GB200009675 A0	20000607	GB20000009675	20000420
US2004007437 AA	20040115	US20030258249	20030709
US2006175770 AA	20060810	US20050230283	20050919
US2010176562 AA	20100715	US20100684484	20100108
WO0181046 A1	20011101	WO2001GB01802	20010420

Priority:

GB20000009675 20000420 WO2001GB01802 20010420 US20030258249 20030709
US20050230283 20050919 US20100684484 20100108

Probable Assignee: BALL BURNISHING MACH TOOLS

Assignee(s): (std)**:** BALL BURNISHING MACH TOOLS ; LINZELL GEOFFREY ROBERT

Assignee(s): BALL BURNISHING MACHINE TOOLS LTD ; BALL BURNISHING MACHINE TOOLS LTD HATFIELD ; BALL BURNISHING MACHINE TOOLS LIMITED

Inventor(s): (std)**:** LINZELL GEOFFREY R ; LINZELL GEOFFREY ROBERT ; LINZELL ROBERT

Inventor(s): LINZELL GEOFFREY ; GEOFFREY ROBERT LINZELL

Agent(s): SYNNESTVEDT AND LECHNER LLP; ALEXIS BARRON,FOX ROTHECHILD LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

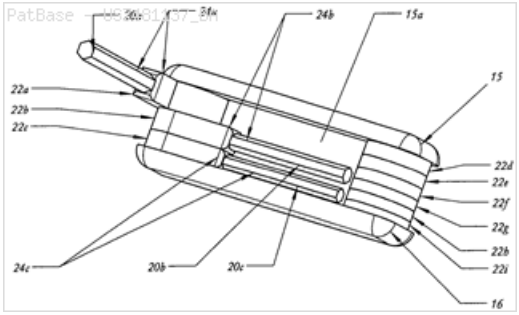
118) Family number: 42858342 (US7481137B)

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Title: TOOL LUG AND LOCKING SYSTEM

Abstract: A folding hand tool containing a plurality of elongated tools mounted on a predetermined sized lug and pivotally held in a handle. Shaped complementary sidewalls on the lugs placed adjacent one another provide locking means for positively positioning the plurality of elongated tools in an open or used position. The shaped complementary sidewalls on adjacent lugs may be selectively disengaged with a release or by overcoming a bias of an engaging force. The predetermined sized lugs provide improved transmission of forces and easier manufacture.

Classifications:
International (IPC 8-9): B25B11/00 B25B23/00 B25B23/16 B25G1/08 B26B3/06 F41B13/02 F41C27/18 (Advanced/Invention); B25B11/00 B25B23/00 B25G1/00 B26B3/00 F41B13/00 F41C27/00 (Core/Invention)
CPC: B25B13/56 B25B15/008 B25F1/04
European: B25B13/56 B25B15/00B2D B25F1/04
US: 30/161 7/118 81/177.4 81/177.8 81/440



Family:

Publication number	Publication date	Application number	Application date
US7481137 BA	20090127	US20060392138	20060329

Priority:

US20060392138 20060329

Probable Assignee: BASELINE REDEFINED LLC

Assignee(s): (std)**:** JOHNSON ROBYN MARIE

Assignee(s): BASELINE REDEFINED LLC

Inventor(s): (std)**:** JOHNSON ROBYN MARIE

Agent(s): FATTIBENE AND FATTIBENE; FATTIBENE PAUL A; FATTIBENE ARTHUR T; PAUL A; ARTHUR T

119) Family number: 34083342 (US2007009334A)

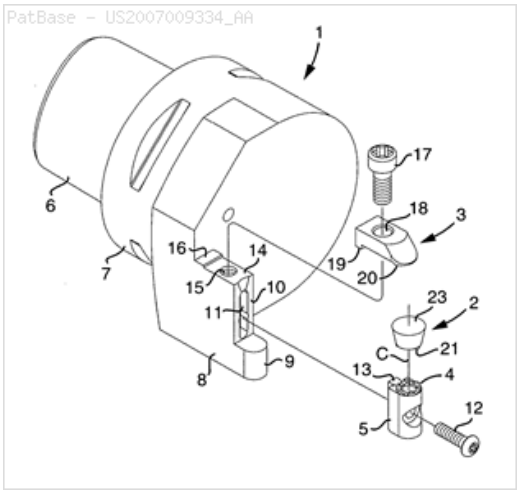
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Title: TURNING TOOL AND AN INDEXABLE TURNING INSERT, AS WELL AS AN ATTACHMENT FOR SUCH TURNING TOOLS

Abstract: An indexable turning insert, which has a symmetrical, preferably rotationally symmetrical basic shape, that is determined by a clearance surface extending between a top side and an underside, and which includes a cutting edge as well as a coupling device located to the underside. The coupling device comprises at least two, preferably three, suitably equiangularly spaced-apart engagement members, preferably in the form of ridges, emanating radially from a center axis and having a pair of flanks that mutually form an obtuse angle. A turning tool and an attachment for the same is also disclosed.

Classifications:
International (IPC 8-9): B23B27/00 B23B27/12 B23B27/16 B23B29/08 B26D1/00 (Advanced/Invention); B23B27/12 B23B29/08 B26D7/00 (Advanced/Non-invention); B23B27/00 B23B27/16 B23B29/00 B26D1/00 (Core/Invention); B23B27/00 B26D7/00 (Core/Non-invention)
CPC: Y10T407/22 Y10T407/2282 Y10T407/23 B23B29/043 B23B27/1625 B23B2200/0461 B23B2200/161 B23B2200/202

B23B2200/3627 B23B2205/12 B23B29/08
European: B23B27/12 B23B27/16D B23B29/04B B23B29/08 L23B200/04G L23B200/16A L23B200/20B L23B200/36C L23B205/12
US: 407/107 407/107P 407/113 407/113S 407/66



Family:

Publication number	Publication date	Application number	Application date
AT439929 E	20090915	AT20060757990T	20060619
CN101208167 A	20080625	CN200680023390	20060619
CN101208167 B	20100519	CN200680023390	20060619
DE602006008618 D1	20091001	DE200660008618T	20060619
EP1899098 A1	20080319	EP20060757990	20060619
EP1899098 B1	20090819	EP20060757990	20060619
JP2008543598 T2	20081204	JP20080519220T	20060619
KR101289297 B1	20130725	KR20077030625	20060619
KR20080037626 A	20080430	KR20077030625	20060619
SE200501514 A	20061228	SE20050001514	20050627
SE200501514 L	20061228	SE20050001514	20050627
SE528751 C2	20070206	SE20050001514	20050627
US2007009334 AA	20070111	US20060475257	20060627
US7476061 BB	20090113	US20060475257	20060627
WO07001224 A1	20070104	WO2006SE00749	20060619

Priority:
SE20050001514 20050627 WO2006SE00749 20060619

Probable Assignee: SANDVIK INTELLECTUAL PROPERTY AB

Assignee(s): (std): EDLER DANIEL ; SANDVIK INTELLECTUAL PROPERTY

Assignee(s): SANDVIK INTELLECTUAL PROPERTY AB

Inventor(s): (std): DANIEL EDLER ; EDLER DANIEL

Agent(s): DRINKER BIDDLE AND REATH (DC); DRINKER BIDDLE AND REATH; DRINKER BIDDLE AND REATH LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

120) Family number: 56890343 (EP2757273A3) © PatBase

Title: INTEGRAL METAL SCREW DOWEL AND ASSOCIATED HAND PUNCH WITH PUNCH DISTANCE ADJUSTMENT FUNCTION
CHEVILLE A VIS ETANCHE INTEGRALE ET POINCON MANUEL ASSOCIE AVEC FONCTION DE REGLAGE DE LA DISTANCE
DE

Abstract: Source: EP2757273A3 [DE] Verfahren zum Befestigen einer Platte (150) an einem weichen Untergrund (350) mit einer Deckverputzschicht (370), wobei bei dem Verfahren ein einstueckig vorgefertigtes Befestigungselement (200) bereitgestellt wird, das einen Duebelkoerper (210) mit einem ersten Aussengewinde (212) zum Eindrehen in den weichen Untergrund (350), einen Kopf (290) mit einem Antrieb (288) an einem ersten Ende des Duebelkoerpers (210) zum drehenden Antreiben des Befestigungselements (200) mittels eines Drehwerkzeugs, und eine Vorschubspitze (224) mit einer ersten Haerte groesser als eine zweite Haerte der Deckverputzschicht (370) an einem dem ersten Ende gegenueberliegenden zweiten Ende des Duebelkoerpers (210) aufweist, wobei die Vorschubspitze (224) zum Eindrehen in die Deckverputzschicht (370) ausgebildet ist. Bei dem Verfahren wird ferner mindestens ein Loch in der Platte (150) mittels einer Lochstanze (100) gestanzt, wird das Drehwerkzeug an den Kopf (290) angesetzt und wird der Antrieb (288) zum Einbringen des bereits vor dem Einbringen einstueckig vorgefertigten Befestigungselements (200) durch das Loch in der Platte (150) in den weichen Untergrund (350) drehend angetrieben, so dass zunaechst die Vorschubspitze (224) in die Deckverputzschicht (370) und nachfolgend der Duebelkoerper (210) in den weichen Untergrund (350) eingedreht wird.

Classifications:
International (IPC 8-9): B21D28/34 B26F1/36 F16B13/02 F16B13/12 F16B13/13 (Advanced/Invention);
E04F21/00 (Advanced/Non-invention)
CPC: B26F2001/365 F16B13/02 F16B13/124 B26F1/36 E04F21/18

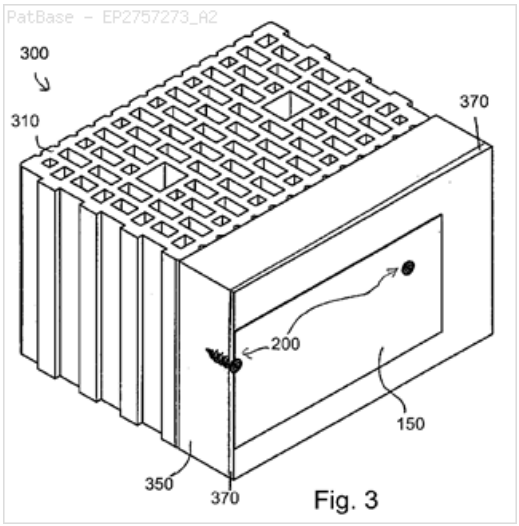


Fig. 3

Family:

Publication number	Publication date	Application number	Application date
DE102013200682 A1	20140717	DE201310200682	20130117
EP2757273 A2	20140723	EP20140151494	20140116
EP2757273 A3	20150826	EP20140151494	20140116

Priority:

DE201310200682 20130117

Probable Assignee: ADOLF WUERTH GMBH AND CO KG

Assignee(s): (std)**:** ADOLF WUERTH GMBH AND CO KG

Inventor(s): (std)**:** SCHWEIGL CHRISTOPH ; KUPRIAN WOLFGANG

Agent(s): DILG HAEUSLER SCHINDELMANN PATENTANWALTSGESELLSCHAFT MBH

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

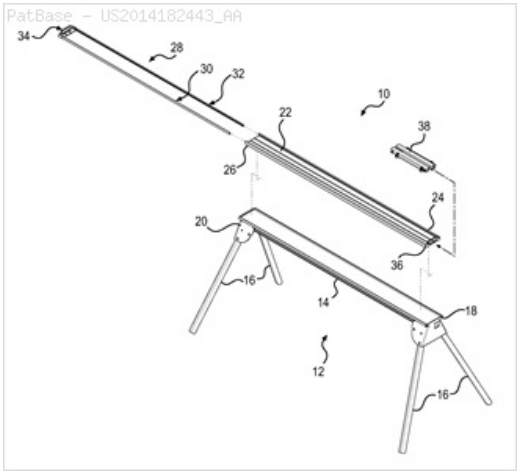
121) Family number: 56824344 (US2014182443A)

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Title: CUTTING GUIDE

Abstract: A cutting guide includes a central rail, a plurality of legs supporting the central rail, a first frame connected and extending upwardly from the central rail, and a second frame pivotally mounted adjacent to the first frame and extending upwardly from the central rail. The second frame is constructed to pivot away from the first frame so that a substrate material becomes insertable therebetween.

Classifications:
International (IPC 8-9): B23Q3/18 B25H1/04 B25H1/10 B26D7/00 (Advanced/Invention)
CPC: B26D7/0006 B23D47/02 B26D1/04 Y10T83/8889
US: 83/829



Family:

Publication number	Publication date	Application number	Application date
CA2837006 AA	20140627	CA20132837006	20131223
US2014182443 AA	20140703	US20130135317	20131219

Priority:

US20120746279P 20121227 US20130135317 20131219

Probable Assignee: IBRO PROJECTS USA INC

Assignee(s): (std)**:** IBRO PROJECT USA INC ; IBRO PROJECTS USA INC

Assignee(s): BOKELAAR WILLY

Inventor(s): (std)**:** BOKELAAR WILLY

Agent(s): BCF LLP

122) Family number: 55519348 (EP2682235A3)

Title: ELECTRIC MACHINE TOOL WITH PROTECTION DEVICE MACHINE-OUTIL ELECTRIQUE AVEC DISPOSITIF DE PRO

Abstract: Source: EP2682235A3 [DE] Die Erfindung betrifft eine handgehaltene Elektrowerkzeugmaschine (10) mit einem in einem Werkzeugbereich (12) angeordneten schwingungsfaehigen Werkzeug (14). Die Werkzeugmaschine umfasst
- ein Gehaeuse (16) mit einem Griffbereich (18) und einer Betaetigungseinheit (20) zum Aktivieren der Elektrowerkzeugmaschine (10) und/oder einer Arbeitsbewegung des Werkzeugs (14),
- eine im Gehaeuse (16) angeordnete Antriebseinheit zur Erzeugung einer Arbeitsbewegung des Werkzeugs (14), wobei die Antriebseinheit wenigstens einen piezoelektrisch oder magnetostriktiv arbeitenden Aktor mit einem Volumen piezoelektrisch oder magnetostriktiv anregbaren Materials umfasst,
- eine im Gehaeuse (16) angeordnete Elektronikeinheit zum Beaufschlagen der Antriebseinheit des Werkzeugs (14) mit wenigstens Steuer- und/oder Regelsignalen, die von einer im Gehaeuse (16) angeordneten Betriebsspannungseinheit mit einer elektrischen Gleichspannung versorgt ist. Die Werkzeugmaschine weist eine Schutzvorrichtung (22) zur Abdeckung des Werkzeugbereichs (12) fuer eine Eingriffsverhinderung in den Werkzeugbereich (12) und einen Beschaedigungsschutz des Werkzeugs (14) in einer Abdeckposition (26) auf.

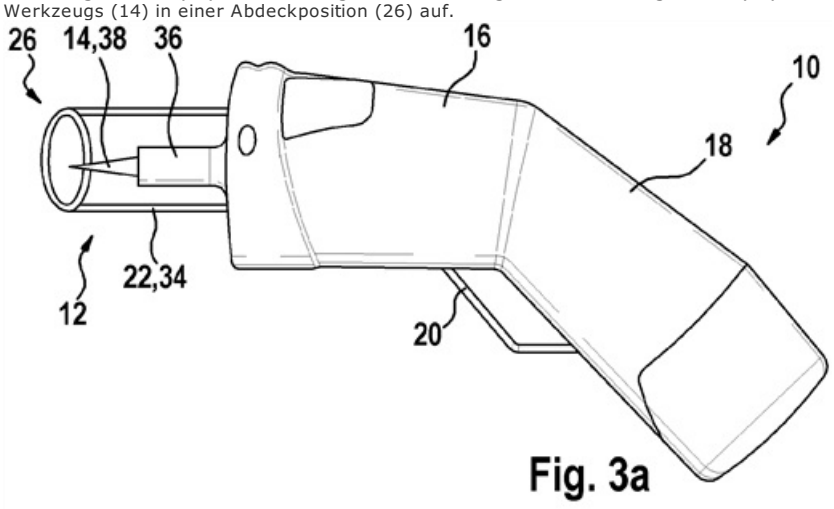


Fig. 3a

Classifications:
International (IPC 8-9): A61B17/32 B23Q11/00 B25F5/00 B26B7/00 B26D7/08 (Advanced/Invention)
CPC: B25F5/00 B26B7/00 B26B29/00 B26D7/086 B26D5/10

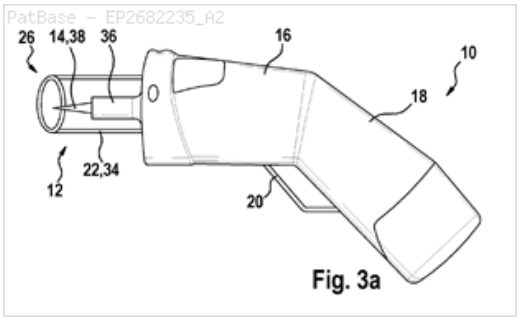


Fig. 3a

Family:

Publication number	Publication date	Application number	Application date
DE102012211880 A1	20140109	DE201210211880	20120706
EP2682235 A2	20140108	EP20130171672	20130612
EP2682235 A3	20180314	EP20130171672	20130612

Priority:
DE201210211880 20120706

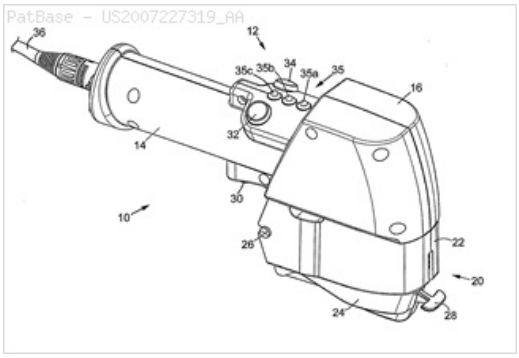
Probable Assignee: BOSCH GMBH ROBERT
Assignee(s): (std): BOSCH GMBH ROBERT
Assignee(s): ROBERT BOSCH GMBH
Inventor(s): (std): GUENTHER MICHAEL ; PLATZER JOACHIM
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

123) Family number: 30590355 (US2007227319A)

Title: CAST-CUTTER

Abstract: A cast-cutter (10) for removing a cast from a patient comprises a body (12) and a cutting assembly (18) secured thereto, wherein the cutting assembly (18) includes first and second relatively moveable cutting members (40, 44). Each cutting member (40, 44) defines a cutting edge (46, 48) which when in use cooperate to cut by a shearing action. Each cutting member (40, 44) also defines an inner face (60) and are adapted to maintain the inner faces (60) in non-engaging relationship to provide clearance therebetween in order to prevent material binding between the member (40, 44) during a cutting operation.
Classifications:
International (IPC 8-9): A61F15/02 B26B13/00 B26B13/06 B26B15/00 B26D1/00 (Advanced/Invention);
A61F5/04 (Advanced/Non-invention);
A61F15/00 B26B15/00 B26D1/00 (Core/Invention);
A61F5/04 (Core/Non-invention)
International (IPC 1-7): A61F15/02 B26B15/00

CPC: Y10T83/04 Y10T83/0605 Y10T83/2077 B26B15/00 A61F15/02
European: A61F15/02 B26B15/00
US: 30/131 30/228 30/233 30/249 30/253 30/277.4 30/289 83/102.1 83/13 83/13P 83/56



Family:

Publication number	Publication date	Application number	Application date
CA2559902 AA	20060914	CA20052559902	20050323
CA2559902 C	20131001	CA20052559902	20050323
DE112005000644 T5	20070614	DE200511000644	20050323
GB200406443 A0	20040428	GB20040006443	20040323
GB200617933 A0	20061025	GB20060017933	20050323
GB2426481 A1	20061129	GB20060017933	20050323
GB2426481 B2	20080903	GB20060017933	20050323
US2007227319 AA	20071004	US20050599139	20050323
US8453546 BB	20130604	US20050599139	20050323
WO05092267 A2	20051006	WO2005GB01158	20050323
WO05092267 A3	20060119	WO2005GB01158	20050323

Priority:

GB20040006443 20040323 WO2005GB01158 20050323

Probable Assignee: ROSS WARK MEDICAL LTD

Assignee(s): (std): MILLER GEORGE ; ROSS DAVID J ; ROSS WARK MEDICAL LTD

Assignee(s): ROSS WARK MEDICAL LIMITED

Inventor(s): (std): MILLER GEORGE ; ROSS DAVID J

Inventor(s): ROSS DAVID ; DAVID J ROSS ; GEORGE MILLER

Agent(s): LAMBERT ANTHONY R; GIFFORD KRASS SPRINKLE ANDERSON AND CITKOWSKI PC; GIFFORD KRASS SPRINKLE ANDERSON AND CITKOWSKI P C

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

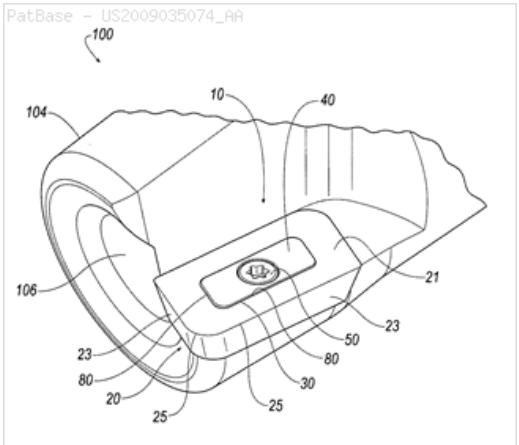
124) Family number: 42908361 (US2009035074A)

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Title: INTEGRAL CUTTING INSERT CLAMPING MECHANISM

Abstract: An integral insert clamping mechanism for transferring clamping forces away from the screw hole of the insert to relieve stress at the screw hole by way of protrusions located on the bottom surface of the clamp plate. The clamping mechanism functions by a clamp plate being seated within an indentation on the top surface of the insert and a screw inserted into screw holes of the clamp plate and the insert and then threadably engaged with a threaded bore of a milling cutter. The top surfaces of the screw, the insert and the clamp plate being substantially coplanar. In an alternative embodiment, the clamp plate having a chip breaker.

Classifications:
International (IPC 8-9): B23B27/16 B23C5/22 B26D1/12 (Advanced/Invention); B23B27/16 B23C5/16 B26D1/01 (Core/Invention)
CPC: Y10T407/192 Y10T407/2276 Y10T407/2282 Y10T407/23 B23C5/2247 B23B27/1629 B23B27/164 B23C2200/086
European: B23B27/16D1 B23B27/16D4 B23C5/22C1B L23C200/08E
US: 407/104 407/107 407/113 407/40 407/40P



Family:

Publication number	Publication date	Application number	Application date
US2009035074 AA	20090205	US20070890155	20070803
US7510352 BB	20090331	US20070890155	20070803

Priority:

US20070890155 20070803

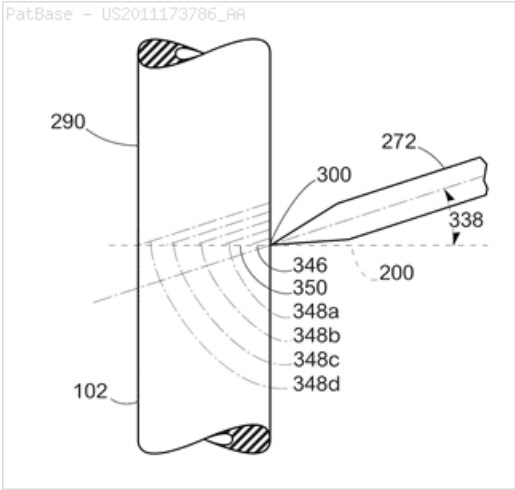
Probable Assignee: KENNAMETAL INC
Assignee(s): (std): CRAIG KAREN A ; KENNAMETAL INC ; LONG II THOMAS J ; MEENAN LARRY R
Inventor(s): (std): CRAIG KAREN A ; MEENAN LARRY R ; LONG II THOMAS J
Agent(s): KENNAMETAL INC INTELLECTUAL PROPERTY DEPARTMENT; GORDON MATTHEW W; MATTHEW W

125) Family number: 49249363 (US2011173786A)

Title: CUTTING ANALYTICAL INSTRUMENT TUBING

Abstract: An apparatus for cutting analytical instrument tubing includes a blade for cutting a tube and a clamp assembly configured to securely hold at least a portion of the tube. The clamp assembly is movable between a first position to hold the tube in a first cutting location relative to the blade and a second position to hold the tube in a second cutting position relative to the blade. A tube advancement mechanism is operably connected to the clamp assembly. A method for cutting an analytical instrument tube having a first cross section and a second cross section proximal to the first cross section includes positioning the tube in a first cutting position relative to a cutting edge of a blade, at least partially cutting the tube across the first cross section to form a first cut surface, advancing the tube to a second cutting position relative to the cutting edge of the blade, and cutting the tube across the second cross section of the tube to form a second cut surface, the second cut surface having fewer imperfections than the first cut surface.

Classifications:
International (IPC 8-9): B26D3/16 B26D5/42 B26D7/06 (Advanced/Invention)
CPC: B26D3/16 B26D1/0006 B26D1/10 B26D5/42 B26D7/0683 B26D2001/002 Y10T29/1131 Y10T83/0596 Y10T83/5669 Y10T83/647
European: B26D1/10 B26D3/16 L26D1/00C L26D1/00C4 L26D5/42 L26D7/06L
US: 29/2.15 29/2.150P 83/375 83/375S 83/401 83/401S 83/54 83/54S



Family:

Publication number	Publication date	Application number	Application date
US2011173786 AA	20110721	US20100691669	20100121

Priority:
US20100691669 20100121

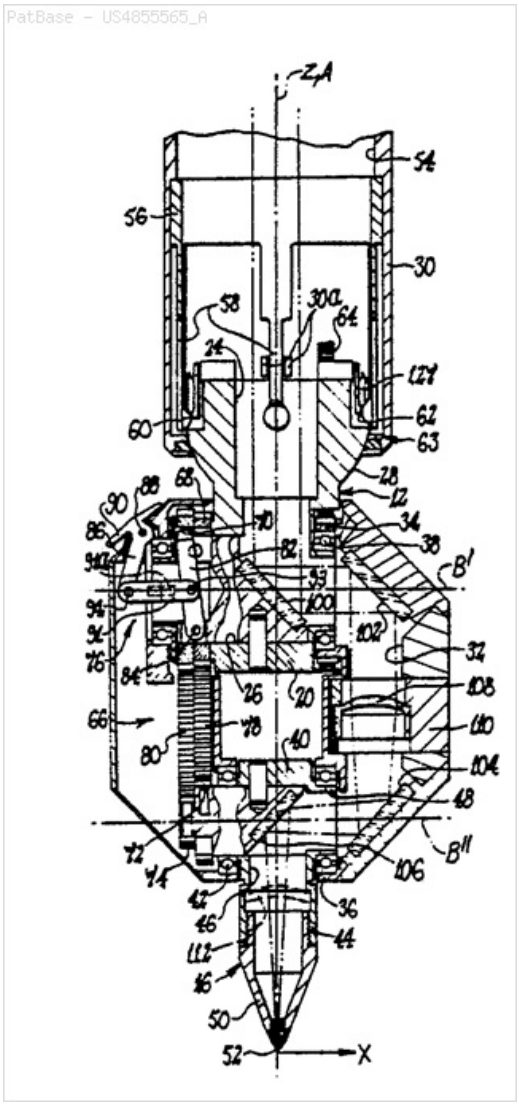
Probable Assignee: DIONEX CORP
Assignee(s): (std): DIONEX CORP
Inventor(s): (std): VANA MARTIN ; MOSHFEGH KHOSRO

126) Family number: 3118367 (US4855565A)

Title: WORK HEAD DEVICE

Abstract: A work head (10) has a base member (12) which is connectable to carrier means (30) of a machine for lateral movement of the work head (10) parallel to an X-Y plane of a three-axes co-ordinate system, for longitudinal movement of work head (10) parallel to the Z-axis of that system and for rotating work head (10) on an A-axis parallel to the Z-axis; link means (14) connected to base member (12) so as to pivot relative thereto on a B'-axis parallel to the X-Y plane; a work member (16) connected to link means (14) so as to pivot relative thereto about a B''-axis spaced parallel to the B'-axis. Work member (16) defines a path by which a work medium is able to pass from a source to an outlet defined at a work end (52) of work member (16). Drive means (64,66) is operable to pivot each link means (14) and work member (16), on its axis, but in opposite directions and with the work member (16) pivoting through twice the angle of pivoting of link means (14) relative to base member (12).

Classifications:
International (IPC 8-9): B23K26/02 B23K26/08 B23K26/10 B25J11/00 B25J17/02 B25J18/00 B25J19/00 B25J9/00 B25J9/06 B25J9/10 B26F3/00 (Advanced/Invention);
B23K26/02 B23K26/08 B23K26/10 B25J11/00 B25J17/02 B25J18/00 B25J19/00 B25J9/00 B25J9/06 B25J9/10 (Core/Invention)
International (IPC 1-7): B23K26/02 B23K26/08 B25J11/00 B25J9/00 B25J9/06 B26F3/00
CPC: B23K26/0884 B23K26/02 B25J9/106 B25J17/0283 B25J18/007 B25J19/0037
European: B23K26/02 B23K26/08L2B B23K26/10B B25J17/02G B25J18/00F B25J19/00E2L B25J9/10L
US: 219/121.74 219/121.79



Family:

Publication number	Publication date	Application number	Application date
AT74051 E	19920415	AT19870902317T	19870325
AU198772310 A1	19871020	AU19870072310	19870325
AU584798 B2	19890601	AU19870072310	19870325
DE3777737 D1	19920430	DE19873777737	19870325
EP0262198 A1	19880406	EP19870902317	19870325
EP0262198 A4	19880620	EP19870902317	19870325
EP0262198 B1	19920325	EP19870902317	19870325
JP63503213 T2	19881124	JP19870502156T	19870325
KR19887001161 A	19880725	KR19877001099	19870325
KR950001096 B1	19950211	KR19870701099	19870325
KR950001096 B1	19950211	KR19870071099	19871125
KR950001096 B1	19950211	KR19870071099	19871125
US4855565 A	19890808	US19880265585	19881101
WO8705849 A1	19871008	WO1987AU00083	19870325

Priority:

AU1986PH05190 19860325 AU19870072310 19870325 AU1987PH05190 19870325
WO1987AU00083 19870325 EP19870902317 19870325 US19870163969 19871123

Probable Assignee: LASER LAB LTD

Assignee(s): (std): LASER LAB LTD

Assignee(s): AUSTRALIA AND NEW ZEALAND BANKING GROUP ACN LTD ; AUSTRALIA AND NEW ZEALAND BANKING GROUP LTD ; LASER LAB LIMITED

Inventor(s): (std): SHAW ROBERT L ; THOMAS BRUCE A ; THOMAS BRUCE ARWYN ; THOMAS ARWYN ; SHAW ROBERT LESLIE ; SHAW LESLIE ; SAPOZHNIKOV GREGORY

Inventor(s): BRUCE ARWYN THOMAS ; GREGORY SAPOZHNIKOV ; ROBERT LESLIE SHAW

Agent(s): PHILLIPS ORMONDE FITZPATRICK

Designated states: AT AU BE BR CH DE DK FI FR GB IT JP KR LI LU NL NO SE US

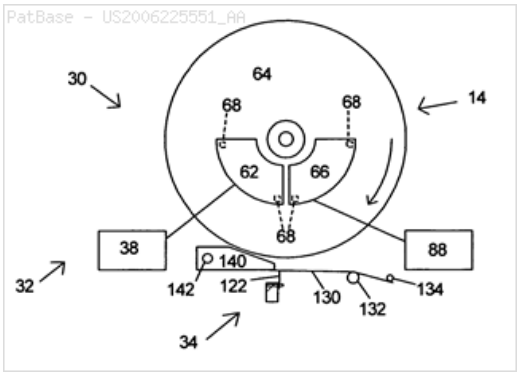
127) Family number: 43875369 (US2006225551A)

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Title: SAFETY SYSTEM FOR POWER EQUIPMENT

Abstract: Safety systems for power equipment are disclosed. The safety systems include a detection system adapted to detect contact between a person and a working portion of a machine, where the detection system is adapted to capacitively impart an electric charge on the working portion and to detect when that charge drops; and a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of contact between the person and the working portion by the detection system. Machines equipped with safety systems are also disclosed, such as saws, jointers, etc. The machines include a working portion, such as a cutter or blade, a detection system adapted to detect a dangerous condition between a person and the working portion, and a reaction system associated with the detection system to cause a predetermined action to take place upon detection of the dangerous condition, such as a brake system to stop the working portion, a retraction system to retract the working portion, or a system to cover the working portion. The machines may include a control system adapted to control the operability of one or more of the working portion, the detection system and the reaction system.

Classifications:
International (IPC 8-9): B26D5/20 (Advanced/Invention); B26D5/20 (Core/Invention)
CPC: Y10S83/01 H01H3/022 B23D59/001 B27B5/38 B27G19/02 F16P3/12 H01H9/161 H01H27/00 Y10T83/081 Y10T83/089 Y10T83/175 Y10T83/178 Y10T83/7726 Y10T83/773 Y10T83/7788
European: B23D59/00B B27B5/38 B27G19/02 F16P3/12 H01H27/00 H01H3/02D T01H9/16B
US: 83/76.8 83/76.800P



Family:

Publication number	Publication date	Application number	Application date
US2006225551 AA	20061012	US20060447449	20060605

Priority:

US19990157340P 19991001 US20000182866P 20000216 US20000676190 20000929 US20060447449 20060605

Probable Assignee: SD3 LLC
Assignee(s): (std): GASS STEPHEN F
Assignee(s): SD3 LLC
Inventor(s): (std): GASS STEPHEN F
Inventor(s): GASS STEPHEN
Agent(s): SD3 LLC

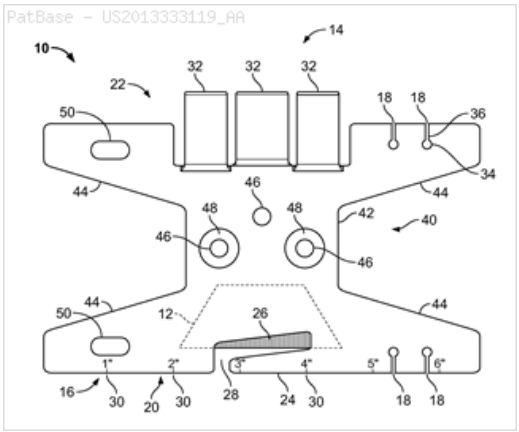
128) Family number: 55358370 (US2013333119A)

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Title: HAND-HELD TOOL FOR STORING, MEASURING, CUTTING, AND HEAT SEALING PARACORD

Abstract: A hand-held tool for storing, measuring, cutting, and heat sealing paracord or other cord includes a spool having a plurality of cord-attachment apertures that attach to the sections of cord, a spooling hub onto which the sections of cord can be wound for storage, and two retaining flanges to help guide and retain the sections of cord when wound onto the spool; a cutting blade and blade guard near a first side of the device for cutting the cord; a lighter clip near a second side of the device having a plurality of flanges adapted to hold a cigarette lighter, the second side being generally opposite the first side; a ruler at the first side; a plurality of burn slots, each having a differently-sized burn slot aperture and a channel leading from the burn slot aperture to a side of the device; and a lanyard.

Classifications:
International (IPC 8-9): B25F1/00 B26B27/00 B65H54/68 B65H75/06 B65H75/28 B65H75/32 D07B7/16 (Advanced/Invention)
CPC: B25F1/00 B65H54/68 B26B27/00 B65H2701/533 B65H75/06 B65H75/28 B65H75/32 B65H2701/35 D07B7/16
US: 1/1 30/124 7/158 7/163



Family:

Publication number	Publication date	Application number	Application date
US2013333119 AA	20131219	US20130916565	20130612
US2014075760 AA	20140320	US20130965974	20130813
US2015274481 AA	20151001	US20150736927	20150611
US9296587 BB	20160329	US20150736927	20150611

Priority:

US20120659260P 20120613 US20120702218P 20120917 US20130916565 20130612 US20130965974 20130813 US20150736927 20150611

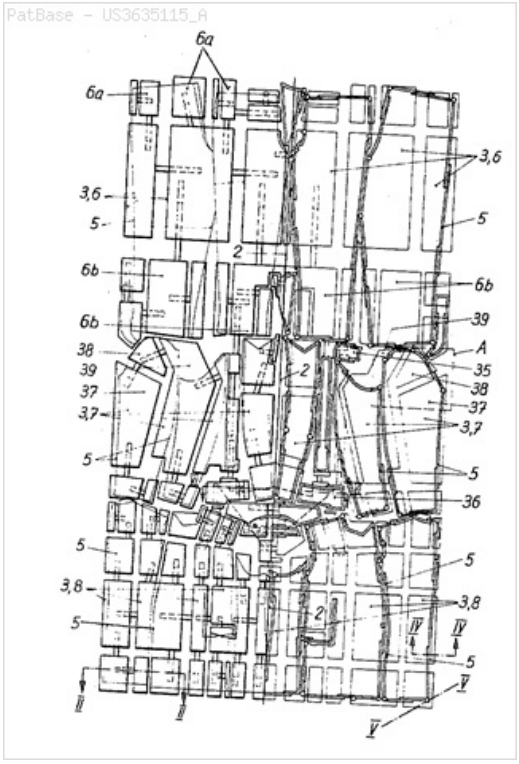
Probable Assignee: TRICORNE LLC
Assignee(s): (std): FOGG ROBERT ; GONZALEZ GINO ; MAYNARD RUSSELL ; TRICORNE LLC

Inventor(s): (std): FOGG ROBERT ; GONZALEZ GINO ; MAYNARD RUSSELL
Agent(s): COASTAL PATENT LAW GROUP PC

129) Family number: 109370 (US3635115A)

Title: PUNCHING DEVICE WITH ELECTROMECHANICALLY ADJUSTABLE PUNCH KNIVES

Abstract: The present punching device is for cutting sheet-type layer pieces and has mutually adjustable knife plates and means for adjusting said knife plates to cut pieces from said sheet of desired sizes.
Classifications:
International (IPC 8-9): B26D7/26 B26F1/00 B26F1/38 C14B5/00 (Advanced/Invention);
B26F1/00 B26F1/38 (Advanced/Non-invention);
B26D7/26 B26F1/00 B26F1/38 C14B5/00 (Core/Invention)
International (IPC 1-7): A41H43/00 A43D7/04 B21D15/00 B26D1/00 B26D5/00 B26D7/00 B26D7/26 B26F1/44 B26F1/46 B31B1/14 C14B5/00 D06H7/00 D06H7/24
CPC: Y10T83/9307 Y10T83/9452 B26F1/00 B26D7/2628 B26D2007/2607 B26F2210/16 C14B5/00 C14B2700/113
European: B26D7/26C B26F1/00 C14B5/00 L26D7/26A L26F210/16 M14B700/11A
US: 83/657 83/696



Family:

Publication number	Publication date	Application number	Application date
AU197014776 A1	19711111	AU19700014776	19700507
AU207014776 A1	19711111	AU19700014776	19700507
BE749805 A	19701001		00000000
BE749805 A1	19701001	BE19700749805	19700430
CH493316 A	19700715	CH19690007071	19690508
DE2019643 A1	19701119	DE19702019643	19700423
FR2046536 A5	19710305	FR19700015208	19700427
GB1308528 A	19730221	GB19700021874	19700506
IL34351 A0	19700617	IL19700034351	19700420
IL34351 A1	19720427	IL19700034351	19700420
JP49035315 B4	19740920	JP19700038169	19700506
NL7006437 A	19701110	NL19700006437	19700501
SE364431 B	19740225	SE19700006267	19700506
SU381201 D	19730515	SU19701433998	19700507
US3635115 A	19720118	US19700034374	19700504

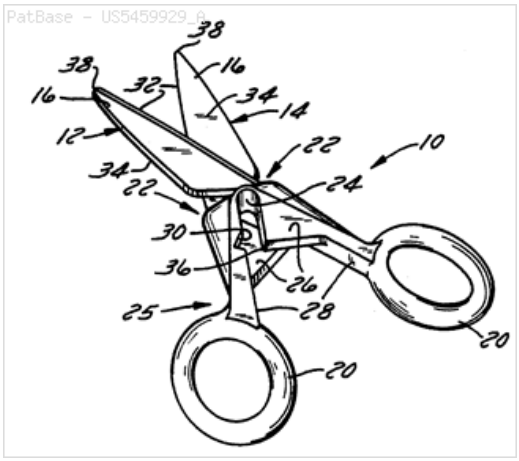
Priority:
CH19690007071 19690508
Probable Assignee: RICKENBACHER WALTER GARTENSTRASSE 10 9202 GOSSAU SG SUISSE
Assignee(s): (std): RICKENBACHER W ; RICKENBACHER WALTER ; WALTER RICKENBACHER
Assignee(s): RICKENBACHER WALTER GARTENSTRASSE 10 9202 GOSSAU SG SUISSE ; RICKENBACHER W CH
Inventor(s): (std): RICKENBACHER W ; RICKENBACHER WALTER ; WALTER RICKENBACHER
Inventor(s): WALTER RICKENBACKER ; RICKENBACHER W CH
Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK

130) Family number: 9108371 (US5459929A)

Title: Tool having integral hinge member

Abstract: The present invention relates to hinged tools such as scissors, shears, pruners, or the like, having a force applying end with formed handles and an opposed working end consisting of a pair of blades disposed across a hinged joint through which a force may be transmitted. In these tools the handles, which are formed integrally with the hinge, are provided with ridge support in the form of heel elements to establish suitable contact between the blades.
Classifications:
International (IPC 8-9): B25B7/08 B26B13/18 B26B13/28 (Advanced/Invention)

International (IPC 1-7): B25B7/08 B26B13/02 B26B13/18 B26B13/28
CPC: B25B7/08 B26B13/18
European: B25B7/08 B26B13/18
US: 30/234 30/254 30/266 30/271 30/341



Family:

Publication number	Publication date	Application number	Application date
CA2113967 AA	19941001	CA19942113967	19940121
DE69406353 D1	19971127	DE19946006353	19940215
DE69406353 T2	19980226	DE19946006353T	19940215
EP0624436 A1	19941117	EP19940301087	19940215
EP0624436 B1	19971022	EP19940301087	19940215
JP6304345 A2	19941101	JP19940061552	19940330
US5459929 A	19951024	US19940247514	19940523

Priority:
US19930040339 19930330 CA19942113967 19940121 US19940247514 19940523

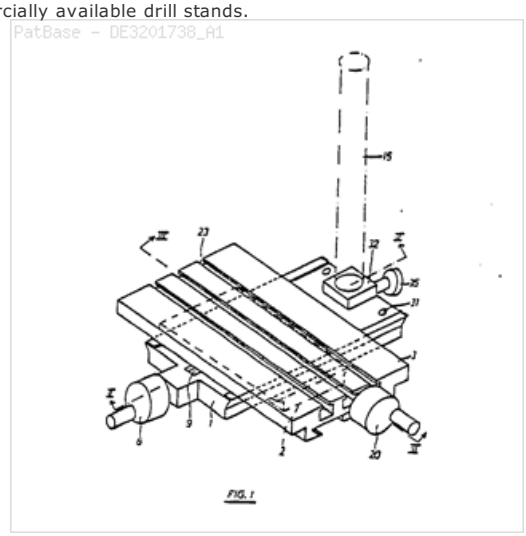
Probable Assignee: FISKARS AB OY
Assignee(s): (std): FISKARS AB OY
Assignee(s): FISKARS OY AB ; FISKARS OY AB HELSINKI FI ; LINDEN ERKKI OLAVI ; MAKIPELTO VEIKKO NICOLAI
Inventor(s): (std): LINDEN ERKKI O ; LINDEN ERKKI OLAVI ; MAEKIPELTO VEIKKO ; MAEKIPELTO VEIKKO NIKOLAI ; MAKIPELTO VEIKKO N ; ERUTSUKI ORABUI RINDEN ; BUEITSUKO NIKORAI METSUKIPERUT
Inventor(s): BUEITSUKO NIKORAI METSUKIPERUTO ; MAKIPELTO VEIKKO NICOLAI ; MAEKIPELTO VEIKKO NIKOLAI SF 10330 BILLNAES FI ; LINDEN ERKKI OLAVI SF 10330 BILLNAES FI
Agent(s): SHAPIRO COHEN
Designated states: DE FR GB IT

131) Family number: 3087371 (DE3201738A1)

Title: Machining table for DIY enthusiasts

Abstract: A machining table for DIY enthusiasts which is to be arranged on a work bench or the like is provided, which can be used in association with power-driven tools and enables work, such as drilling, milling, abrasive cutting and the like, to be performed, even with relatively small workpieces, with a high degree of precision. The machining table according to the invention is characterised in that it is constructed in the form of a compound slide comprising base plate (1), central slide (2), upper slide (3) and two spindle drives (6, 20), and in that the upper slide (3) is provided with connection devices (23) for workpiece holders. Such a machining table can be arranged, for example, next to a DIY drilling machine attached to the work bench by means of a drill stand or a clamping frame, the base plate (1) being provided advantageously with holes (31) for screwing onto the work bench. The base plate (1) is, however, preferably provided at one longitudinal end with a receptacle (32) for the direct attachment of a drill-stand upright (15) of commercially available drill stands.

Classifications:
International (IPC 8-9): B23Q1/62 B25H1/00 B25H1/08 (Advanced/Invention); B23Q1/25 B25H1/00 (Core/Invention)
International (IPC 1-7): B25H1/14
CPC: B23Q1/621 B25H1/005 B25H1/08
European: B23Q1/62A B25H1/00C3B B25H1/08



Family:

Publication number	Publication date	Application number	Application date
DE3201738 A1	19830728	DE19823201738	19820121
DE3201738 C2	19900503	DE19823201738	19820121

Priority:

DE19823201738 19820121

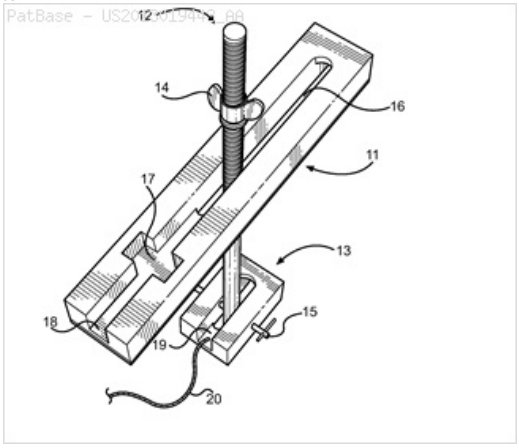
Probable Assignee:	WOLFF ROBERT
Assignee(s): (std)**:**	WOLFF ROBERT
Assignee(s):	WERKZEUG GMBH 5441 WEIBERN DE
Inventor(s): (std)**:**	WOLFF ROBERT
Inventor(s):	WOLFF ROBERT 5446 ENGELN DE

132) Family number: 52824375 (US2013019443A)

Title: RECESSED OR SELF-RIMMING SINK SUPPORT TOOL

Abstract: A drop-in or recessed sink installation tool is disclosed, wherein a plurality of supports is provided to allow a user to position and control a sink during the installation process using a mechanism that utilizes the structure of the sink for securement. The tool comprises a lower support platform, an upper support bridge and a clamping bolt spanning a gap therebetween. The lower support platform is adapted to articulate and enter through the base of the sink basin and rotate to support the sink's weight therebelow, while the upper support bridge spans across a countertop cut-out or the upper rim of the sink to clamp sink between the bridge and lower platform. The clamping bolt compresses the two elements together, whereafter the sink statically positioned or controlled from an overhead position. The tool can then be disengaged from above the installed sink and condensed into a stowed position thereafter.

Classifications:
International (IPC 8-9): B25B27/00 G06F11/00 G06F15/167 G06F15/173 G06F9/54 H04L29/06 (Advanced/Invention); H04L29/06 H04L29/08 (Advanced/Non-invention)
CPC: B25B27/14 B25B27/00 Y10T29/53909 H04L67/40 G06F9/547 G06F15/17331 G06F9/544 H04L29/0617 H04L67/1097
US: 29/270 370/235 709/212 709/213 709/216 709/235



Family:

Publication number	Publication date	Application number	Application date
US2013019443 AA	20130124	US20120455193	20120425
US2013290473 AA	20131031	US20120584323	20120813
US2014047060 AA	20140213	US20120570916	20120809
US9037669 BB	20150519	US20120570916	20120809
US10152450 BB	20181211	US20120584323	20120813

Priority:

US20110509335P 20110719 US20120455193 20120425 US20120570916 20120809 US20120584323 20120813

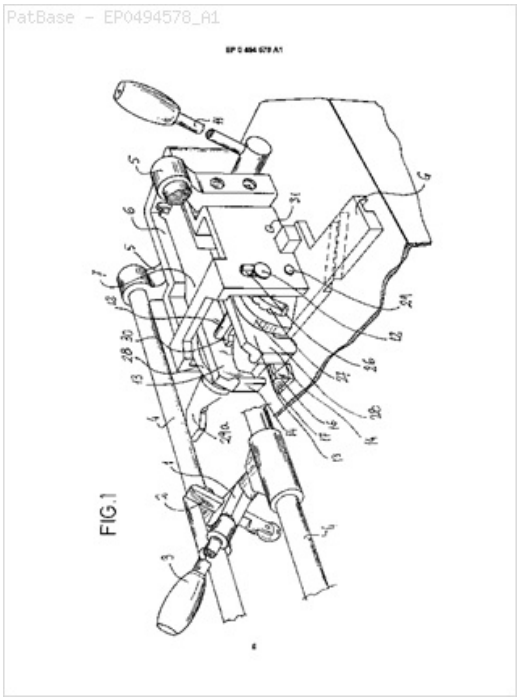
Probable Assignee:	IBM
Assignee(s): (std)**:**	CHEN DONG ; EISLEY NOEL A ; GOMES CLINTON ; HEIDELBERGER PHILIP ; IBM ; STEINMACHER BUROW BURKHARD ; SENGER ROBERT M ; PETRINI FABRIZIO ; SUGAWARA YUTAKA ; KAHLE JAMES A
Assignee(s):	INT BUSINESS MACHINES CORP
Inventor(s): (std)**:**	CHEN DONG ; EISLEY NOEL A ; GOMES CLINTON ; HEIDELBERGER PHILIP ; KAHLE JAMES A ; PETRINI FABRIZIO ; SENGER ROBERT M ; STEINMACHER BUROW BURKHARD ; SUGAWARA YUTAKA
Agent(s):	CANTOR COLBURN LLP

133) Family number: 15345385 (EP0494578A1)

Title: MACHINE FOR CUTTING AND SEPARATING FLAT CERAMIC PIECES AND THE LIKE.

Abstract: It comprises a housing (6) at one of its ends, which is placed between the sliding guides of the support (1) for the tool (2). In this housing (6) are articulated two opposite levers (7,8), superimposed on the same plane, the upper one terminating in points (14) in contact with the piece, and the lower one in a tip (16) which coincides with the breakage line. Both levers (7,8) are joined together by a rear spring (9), and are driven by a common cam and a lever (11), the axis of the lever (7), which is in contact with a rocker arm (30), passing through toothed openings (27) of components (28) in the form of circular sectors, whose rotation axis (29) is provided with an operating handle (29a). The breakage is independent from the cutting. It allows the cutting of pieces of greater surface area and thikness.

Classifications:
International (IPC 8-9): B28D1/22 (Advanced/Invention); B28D1/22 (Core/Invention)
International (IPC 1-7): B26D9/0 B28D1/0 B28D1/22
CPC: B28D1/225
European: B28D1/22D



Family:

Publication number	Publication date	Application number	Application date
AT130542 E	19951215	AT19910500145T	19911218
DE69114826 D1	19960104	DE19916014826	19911218
DE69114826 T2	19960627	DE19916014826T	19911218
DK0494578 T3	19960311	DK19910500145T	19911218
EP0494578 A1	19920715	EP19910500145	19911218
EP0494578 B1	19951122	EP19910500145	19911218
ES2027568 AF	19920601	ES19910000016	19910104
GR3019022 T3	19960531	GR19960400424T	19960220
PT99977 A	19940429	PT19920099977	19920103
PT99977 B	19970930	PT19920099977	19920103

Priority:

ES19910000016 19910104

Probable Assignee: BOADA GERMANS SA

Assignee(s): (std)**:** BOADA GERMANS SA ; LOZANO CARBONELL FRANCISCO

Assignee(s): GERMANS BOADA S A ; GERMANS BOADA S A RUBI ES ; GERMANS BOADA SA

Inventor(s): (std)**:** CARBONELL FRANCISCO LOZANO ; FRANCISCO LOZANO CARBONELL ; LOZANO CARBONELL FRANCISCO

Inventor(s): LOZANO CARBONELL FRANCISCO E 08192 ST QUIRZE DEL V ; LOZANO CARBONELL FRANCISCO E 08192 ST QUIRZE...

Designated states: AT BE CH DE DK FR GB GR IT LI LU NL SE

134) Family number: 55522387 (WO15059475A1)

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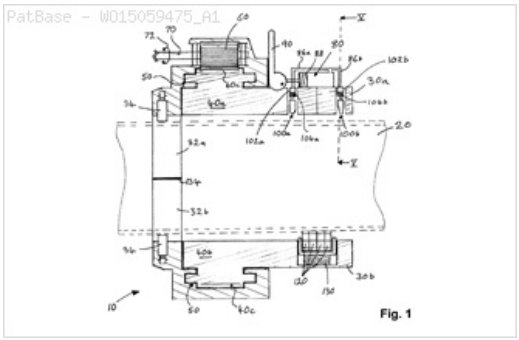
Title: PIPE CUTTING APPARATUS

Abstract: A pipe cutting apparatus (10), especially for cutting or machining a plastics, resin or soft-metallic pipe (20), comprises a frame (32a, 32b) for receiving the pipe (20) to be cut, and cutting means (100a, 100b) carried by the frame (32a, 32b), the cutting means (100a, 100b) and the pipe (20) being relatively rotatable with respect to each other, e.g. by geared drive means, to perform a cut, wherein the cutting means comprise at least one cutting tool (100a, 100b) and a positioning mechanism for controlling the relative position of the cutting tool(s) (100a, 100b) with respect to the pipe (20), wherein the positioning mechanism comprises: (i) secondary biasing means, e.g. a respective coil compression spring (104a, 104b), attached to a respective cutting tool (100a, 100b); (ii) force transmission means, e.g. interconnected primary and secondary hydraulic cylinder devices (80; 102a, 102b), connected to the secondary biasing means (104a, 104b); and (iii) primary biasing means, e.g. a primary coil compression spring (88), connected to the force transmission means (80; 102a, 102b) and actuatable by an actuation lever (90) to apply or receive force respectively to or from the secondary biasing means (104a, 104b) via the force transmission means (80; 102a, 102b); wherein the actuation lever (90) is selectively actuatable either to cause the primary biasing means (88) to apply biasing force, via the force transmission means (80, 102a, 102b), to the secondary biasing means (104a, 104b) so as to advance the respective cutting tool (100a, 100b) into cutting relationship with the pipe (20), or to enable the primary biasing means (88) to receive biasing force, via the force transmission means (80; 102a, 102b), from the secondary biasing means (102a, 102b) so as to retract the respective cutting tool (100a, 100b) out of cutting relationship with the pipe (20).

Classifications:

International (IPC 8-9): B23B5/16 B23D21/04 B26D3/16 (Advanced/Invention)

CPC: B23B5/163 B23D21/04 B26D3/16 B23D15/14 B26D5/12 B26D3/166 B26D2007/013



Family:

Publication number	Publication date	Application number	Application date
GB201318845 A0	20131211	GB20130018845	20131024
GB2519565 A1	20150429	GB20130018845	20131024
WO15059475 A1	20150430	WO2014GB53157	20141023

Priority:

GB20130018845 20131024

Probable Assignee: SHEPHERD PETA A

Assignee(s): (std)**:** PETA ANNE SHEPHERD ; SHEPHERD PETA A ; SHEPHERD PETA ANNE

Inventor(s): (std)**:** SHEPHERD BENJAMIN ROLAND WALTER FERMOR

Inventor(s): BENJAMIN ROLAND WALTER FERMOR SHEPHERD

Agent(s): LINN SAMUEL JONATHAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

135) Family number: 66344389 (BR202015011763U)

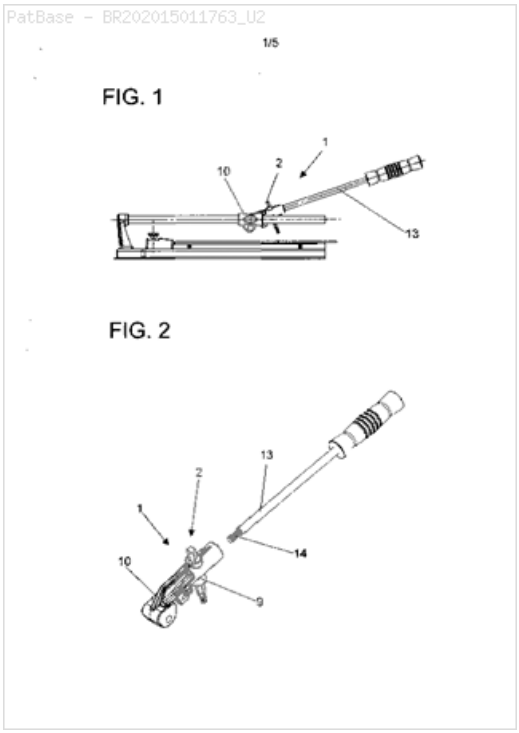
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Title: DISPOSICAO INTRODUZIDA EM HASTE DENTEADA COM ROLETE DE CORTE PARA CORTADOR MANUAL DE CERAMICA
Exposure inserted in toothed rod with cutting roller for manual cutter Ceramica (Machine translation)

Abstract: Source: BR202015011763U [PT] RESUMO: "DISPOSICAO INTRODUZIDA EM HASTE DENTEADA COM ROLETE DE CORTE PARA CORTADOR MANUAL DE CERAMICA", idealiza uma ferramenta de corte para utilizacao em maquinas manuais de corte ceramico que pertence ao campo dos equipamentos para construcao civil, cuja tecnologia inovadora, introduz uma geometria secional denteada na haste da ferramenta de corte que permite posicionar-se com precisao, sem desvios angulares ou de ortogonalidade, tecnica esta, inexistente no mercado, a ferramenta de corte (2) ostenta uma geometria secional da haste (3), com duplo denteado (5) longitudinal em "Vss e uma face oposta (6) planlfioada, sendo que o delineio secional coincidente da haste (3) e do tunel de haste (7) do elemento porta-ferramenta (8) impede qualquer ajuste axial ou angular da ferramenta de corte em relacao a base da maquina manual de corte ceramico, a ferramenta de corte (2) pode ser posicionada em diferentes alturas, cuja fixacao no porta-fenramentas (8) se conclui, pelo aperto do segmento de pega (12) com rosca de penetracao (13) que faz encosto forcado com a face oposta (6) plana da haste (3) da propria ferramenta de corte (2).

Machine translation: Summary: "TOOTHED ROD ARRANGEMENT INTRODUCED INTO CUTTING ROLLER WITH MANUAL CUTTER FOR CERAMIC", envisioned a cutting tool for use in ceramic manual cutting which belongs to the field of equipment for civil construction, whose innovative technology introduces a toothed sectional geometry from the shaft of cutting tool that lets you position with accuracy, without angular deviations or orthogonality, the art is non-existent in the market, the cutting tool (2) boasts a rod (3) sectional geometry, double toothed (5) "Vss and an opposite face longitudinal (6) planlfioada, the delineio 3 sectional stem coincident) and rod (7 tunnel) of the tool holder 8) prevents any angular or axial adjustment of the tool of Manual cutting machine relative to the base ceramic cutting, the cutting tool (2) may be positioned at different heights, which entrainment in the fenramentas (8) concludes by tightening threaded gripping segment 12 of penetration (13)) which forced with the opposite face (6) planar abutment of the shank 3 (2) of the cutting tool itself).

Classifications:
International (IPC 8-9): B26D1/56 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BR202015011763 U2	20170523	BR20152011763U	20150521

Priority:

BR20152011763U 20150521

Probable Assignee: CARLOS MANOEL GUARDIA

Assignee(s): (std)**:** CARLOS MANOEL GUARDIA

Inventor(s): (std)**:** CARLOS MANOEL GUARDIA

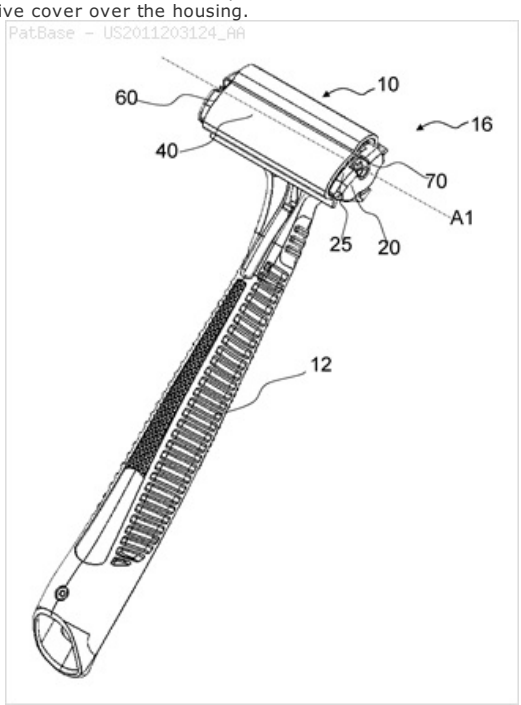
136) Family number: 47399393 (US2011203124A)

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Title: PROTECTIVE COVERS FOR WET SHAVING RAZORS

Abstract: A shaving cartridge-cover assembly having a housing with a guard, a cap, a rear wall with at least one retention member, a front wall, and a pair of side walls. At least one blade is mounted to the housing between the guard and the cap. A protective cover has a top wall, a front wall and a rear wall that define a pair of opposing open ends. The housing has a dimension between the retention member and the front wall that is greater than an inner width of the open ends of the protective cover such that sliding one of the side walls of the housing into at least one of the open ends deflects the front and rear walls of the protective cover to facilitate mounting of the protective cover over the housing.

Classifications:
International (IPC 8-9): A45D B26B B26B21/22
B26B21/40 (Advanced/Invention);
A45D B26B (Subclass/Invention)
International (IPC 1-7): B26B21/22
CPC: B26B21/4037
European: B26B21/40C
US: 30/539 30/539P



Family:

Publication number	Publication date	Application number	Application date

AP201005396 A0	20101031	AP20100005396	20100916
CN102161207 A	20110824	CN201010288072	20100916
IN02217DE2010 A	20101022	IN2010DE02217	20100916
MA33472 B1	20120801	MA20100033184	20100916
TN2010000472 A1	20120524	TN20100000472	20101015
US2011203124 AA	20110825	US20100708769	20100219
WO11102853 A1	20110825	WO2010US49087	20100916
ZA201006666 A	20130828	ZA20100006666	20100916

Priority:

US20100708769 20100219 WO2010US49087 20100916

Probable Assignee: GILLETTE CO

Assignee(s): (std)**:** BRIDGES KELLY DANIEL ; GILLETTE CO ; WALKER JR VINCENT PAUL ; WALKER VINCENT PAUL JR

Assignee(s): THE GILLETTE COMPANY

Inventor(s): (std)**:** DANIEL BRIDGES KELLY ; PAUL WALKER JR VINCENT ; WALKER JR VINCENT PAUL ; WALKER VINCENT PAUL JR ; BRIDGES KELLY DANIEL

Inventor(s): WALKER JR

Agent(s): THE GILLETTE COMPANY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

137) Family number: 43875394 (US2009114070A)

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Title: SAFETY SYSTEM FOR POWER EQUIPMENT

Abstract: Safety systems for power equipment are disclosed. The safety systems include a detection system adapted to detect a dangerous condition between a person and a working portion of a machine, and a reaction system associated with the detection system to cause a predetermined action to take place upon detection of the dangerous condition. The reaction system may be adapted to perform some action upon detection of the dangerous condition with sufficient speed so that the person is cut no deeper than 1/8th of an inch when contacting or approaching the blade at any point above the table at a rate of one foot per second.

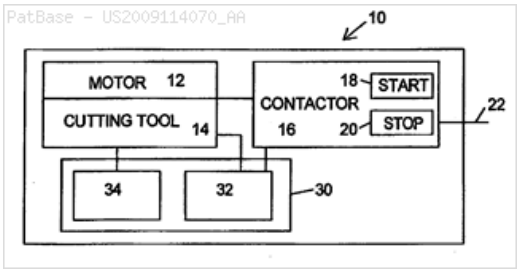
Classifications:

International (IPC 8-9): B26D5/20 B27B27/04 (Advanced/Invention); B26D5/20 B27B27/00 (Core/Invention)

CPC: Y10S83/01 H01H3/022 B23D59/001 B27B5/38 B27G19/02 F16P3/12 H01H9/161 H01H27/00 Y10T83/081 Y10T83/089 Y10T83/175 Y10T83/178 Y10T83/7726 Y10T83/773 Y10T83/7788

European: B23D59/00B B27B5/38 B27G19/02 F16P3/12 H01H27/00 H01H3/02D T01H9/16B

US: 83/477.2 83/477.200S 83/76.8 83/76.800P



Family:

Publication number	Publication date	Application number	Application date
US2009114070 AA	20090507	US20080288578	20081021

Priority:

US19990157340P 19991001 US20000182866P 20000216 US20000676190 20000929
US20060447449 20060605 US20080288578 20081021

Probable Assignee: SD3 LLC

Assignee(s): (std)**:** GASS STEPHEN F

Assignee(s): SD3 LLC

Inventor(s): (std)**:** GASS STEPHEN F

Agent(s): SD3 LLC

138) Family number: 48390397 (US2011152881A)

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Title: CONTROL PORTION OF AND DEVICE FOR REMOTELY CONTROLLING AN ARTICULATING SURGICAL INSTRUMENT

Abstract: A remotely controlled surgical device control portion comprises a user moveable bi-directional trigger, a finger loop disposed within the trigger, and a flange coupled to the finger loop. The trigger is configured for receiving a motion input in opposing first and second directions. The motion input is for controlling an articulation motion of an articulating surgical instrument. The finger loop is configured for receiving the motion input in the form of a user squeezing the trigger in the first direction with at least one finger or pushing the trigger in the second direction with said at least one finger. The flange is configured for receiving the motion input in the form of pushing the trigger in the second direction with a thumb.

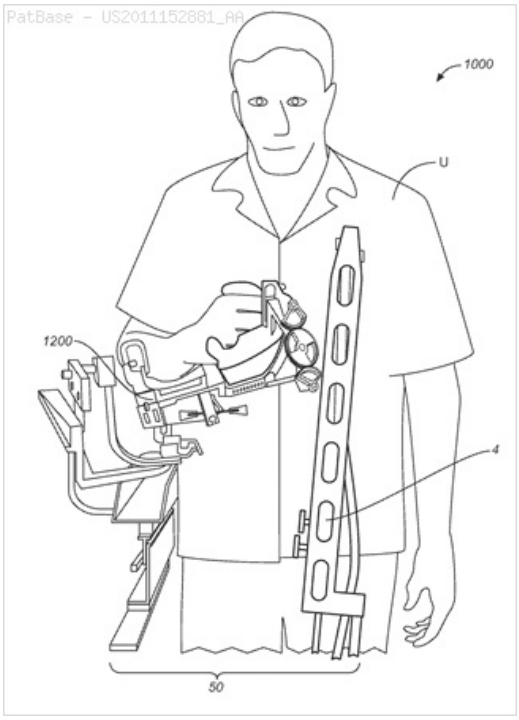
Classifications:

International (IPC 8-9): A61B17/00 A61B19/00 A61B19/02 A61B19/08 A61B34/00 A61B34/30 A61B34/37 A61B46/10 A61B90/50 B25J13/02 B25J3/00 B25J9/14 (Advanced/Invention)

CPC: A61B34/30 A61B34/37 A61B34/76 A61B46/10 A61B90/50 A61B34/74 A61B2017/00442 A61B2017/00539

European: A61B19/08B A61B19/22B K61B17/00G8 K61B17/00N2 K61B19/22B10 K61B19/22J K61B19/22N K61B19/26

US: 128/849 128/853 600/1 600/130 606/1 606/130 606/130P 606/130S



Family:

Publication number	Publication date	Application number	Application date
EP2470104 A1	20120704	EP20100812578	20100825
EP2470104 A4	20170104	EP20100812578	20100825
EP2608732 A2	20130703	EP20110820621	20110824
EP2608732 A4	20170927	EP20110820621	20110824
EP2608733 A2	20130703	EP20110820684	20110825
EP2608733 A4	20170301	EP20110820684	20110825
TW201212880 A	20120401	TW20110130516	20110825
US2011152881 AA	20110623	US20100869717	20100826
US2011178531 AA	20110721	US20100869734	20100826
US2011319911 AA	20111229	US20100869743	20100826
US2012080040 AA	20120405	US20100895235	20100930
US2012271283 AA	20121025	US20100392477	20100825
US8734312 BB	20140527	US20100869717	20100826
US8776800 BB	20140715	US20100895235	20100930
WO11025818 A1	20110303	WO2010US46619	20100825
WO12027509 A2	20120301	WO2011US49021	20110824
WO12027509 A3	20120510	WO2011US49021	20110824
WO12027615 A2	20120301	WO2011US49229	20110825
WO12027615 A3	20120607	WO2011US49229	20110825

Priority:

US20090237042P 20090826 US20100392477 20100825 WO2010US46619 20100825
US20100869717 20100826 US20100869734 20100826 US20100869743 20100826
US20100895235 20100930 WO2011US49021 20110824 WO2011US49229 20110825

Probable Assignee: CAREFUSION 2200 INC

Assignee(s): (std)**:** CAPUTO JIMMY C ; CARE FUSION 2200 INC ; CAREFUSION 2200 INC ; CHEN HOW LUN ; DOYLE MARK ; MAGERS COREY ; GENNRICH DAVID ; CONNER CRAIG ; IRWIN CURT ; SKORA BROOKE ; JACQUEZ JOSE ; STROUP DAVE

Inventor(s): (std)**:** DOYLE MARK ; MAGERS COREY ; GENNRICH DAVID ; CONNER CRAIG ; IRWIN CURT ; SKORA BROOKE ; JACQUEZ JOSE ; STROUP DAVE ; CHEN HOW LUN ; CAPUTO JIMMY C

Agent(s): JOHNSON RICHARD ALAN; RICHARDS JOHN; ARENT FOX LLP; WILBURN L CHESSER ET AL; GALLENSON MAVIS S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

139) Family number: 19299397 (DE551739A)

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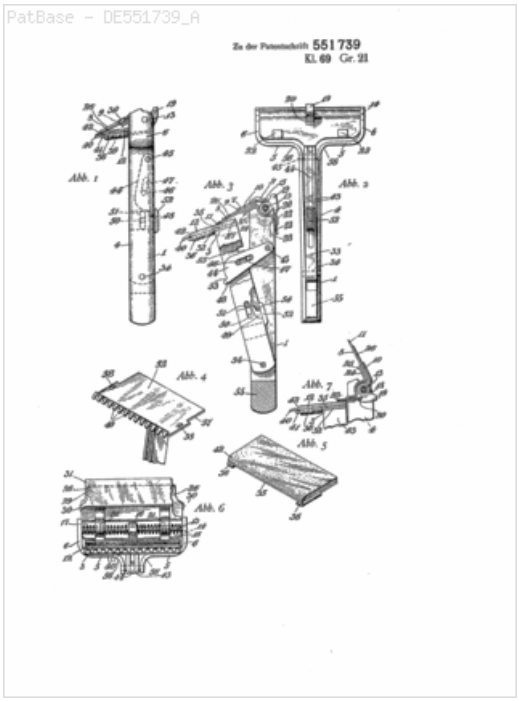
Title: SICHERHEITSRASIERHOBEL

Abstract: Source: DE551739A [DE] (Claim 1) 1. PATENTANSPRUECHE: i. Sicherheitsrasierhobel, bestehend aus einem Handgriff, einem Klingenhalter und einem Schaerfwerkzeug, das rechtwinklig zur Klingenschneide unter staendiger Be ruehrung mit dieser bewegt werden kann, dadurch gekennzeichnet, dass die Ober flaeche des Schaerfwerkzeuges (1-2) un- parallel zu der von diesem bei seiner Re lativbewegung zur Klinge durchlaufenen Bahn ist, so dass die Klinge (8) waehrend dieser Bewegung den mit der Schaerfflaeche gebildeten Anstellwinkel fortgesetzt aen dert.

Machine translation: (claim 1) 1 Claims: i Sicherheitsrasierhobel, consisting of a handle, a blade holder and a

Schaerfwerkzeug, the right angles to the cutting blade can be moved under constant agitation with this loading, characterized in that the surface of the Schaerfwerkzeuges (1-2) un-parallel to the This relative movement of the blade in his re passed through rail, so that the hundred blade (8) during this movement continues to Schaerfflaeche ate with the resulting angle of attack.

Classifications:
International (IPC 8-9): B26B21/50 (Advanced/Invention); B26B21/00 (Core/Invention)
International (IPC 1-7): B26B21/50
CPC: B26B21/50
European: B26B21/50



Family:

Publication number	Publication date	Application number	Application date
DE551739 A	19320606	DE1926H107375D	19260725

Priority:
19250724 DE1926H107375 19260725

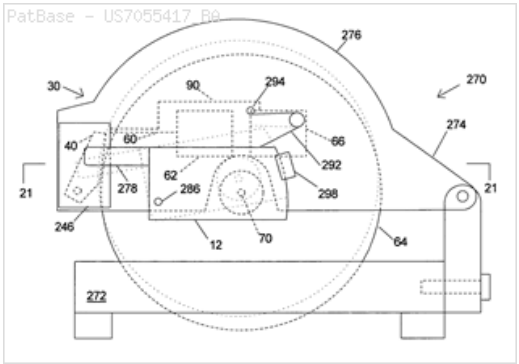
Probable Assignee: HUGH DE HAVEN
Assignee(s): (std): HUGH DE HAVEN

140) Family number: 43875401 (US7055417B)

© PatBase

Title: SAFETY SYSTEM FOR POWER EQUIPMENT

Abstract: Safety systems for power equipment are disclosed. The safety systems include a detection system adapted to detect contact between a person and a working portion of a machine, where the detection system is adapted to capacitively impart an electric charge on the working portion and to detect when that charge drops; and a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of contact between the person and the working portion by the detection system. Machines equipped with safety systems are also disclosed, such as saws, jointers, etc. The machines include a working portion, such as a cutter or blade, a detection system adapted to detect a dangerous condition between a person and the working portion, and a reaction system associated with the detection system to cause a predetermined action to take place upon detection of the dangerous condition, such as a brake system to stop the working portion, a retraction system to retract the working portion, or a system to cover the working portion. The machines may include a control system adapted to control the operability of one or more of the working portion, the detection system and the reaction system.
Classifications:
International (IPC 8-9): B26D1/14 B26D5/00 (Advanced/Invention); B26D1/01 B26D5/00 (Core/Invention)
CPC: Y10S83/01 H01H3/022 B23D59/001 B27B5/38 B27G19/02 F16P3/12 H01H9/161 H01H27/00 Y10T83/081 Y10T83/089 Y10T83/175 Y10T83/178 Y10T83/7726 Y10T83/773 Y10T83/7788
European: B23D59/00B B27B5/38 B27G19/02 F16P3/12 H01H27/00 H01H3/02D T01H9/16B
US: 83/477.1 83/490 83/58 83/62.1 83/76.7 83/DIG.1



Family:

Publication number	Publication date	Application number	Application date
US7055417 BA	20060606	US20000676190	20000929

Priority:
US19990157340P 19991001 US20000182866P 20000216 US20000676190 20000929

Probable Assignee: SD3 LLC
Assignee(s): (std): SD3 LLC
Assignee(s): SAWSTOP HOLDING LLC

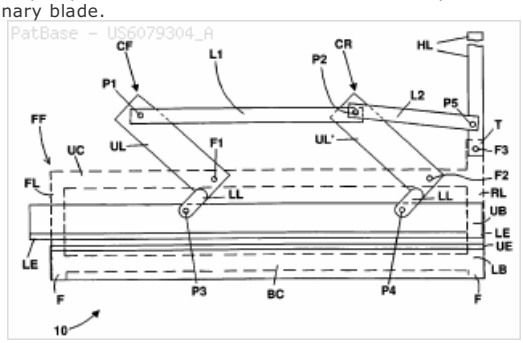
Inventor(s): (std): GASS STEPHEN F

141) Family number: 12330409 (US6079304A)

Title: PINCH BLADE TOOL AND METHOD FOR PATTERNING ASPHALT SHINGLES WITH INDENTATIONS

Abstract: A shingle trimming tool comprises a stationary and a movable blades with edges. When a manually operated lever is lowered, the movable blade is mounted to reciprocate towards a closed position with the edges in contact and returns to an open position. The blade moves with a sliding action in which the reciprocating edge is driven into confrontation with the stationary edge to pinch work between the blades. When the lever is raised, then the movable blade slides back to an open position. The fixed blade and a pair of matched bell cranks are supported by a frame. The movable blade is supported by the bell cranks which hold the sharp edge of the movable blade parallel to the sharp edge of the lower blade during the entire reciprocal path traversed from open to closed position and back to the open position. The lever is connected to links provides leverage to force the movable blade down into contact with the stationary blade.

Classifications:
International (IPC 8-9): B26D1/08 B26D5/10 B28D1/22 E04D15/02 (Advanced/Invention);
B26D1/01 B26D5/08 B28D1/22 E04D15/00 (Core/Invention)
International (IPC 1-7): B26D3/08
CPC: Y10S83/92 E04D15/02 B26D1/085 B26D5/10 B28D1/223 Y10T83/0581 Y10T83/8876
European: B26D1/08B B26D5/10 B28D1/22C1 E04D15/02
US: 83/51 83/510 83/647 83/920



Family:

Publication number	Publication date	Application number	Application date
US6079304 A	20000627	US19980060082	19980414

Priority:
US19980060082 19980414

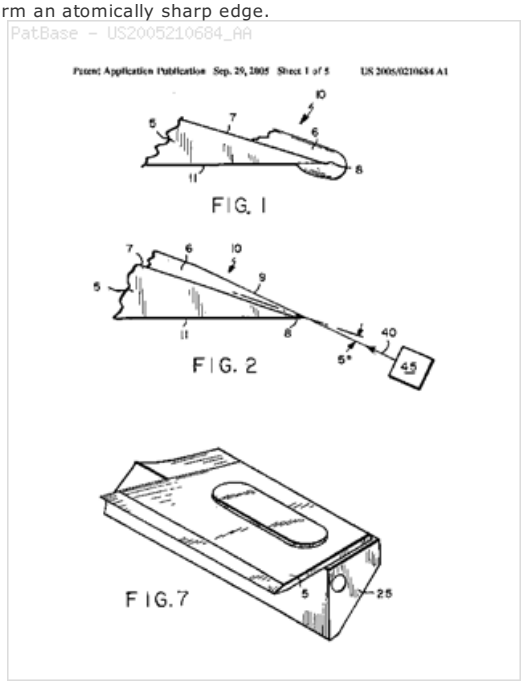
Probable Assignee: WONDEBAR CONSTRUCTION CORP
Assignee(s): (std): WONDEBAR CONSTRUCTION CORP
Inventor(s): (std): BISCEGLIA JAMES DAVID

142) Family number: 11966412 (US2005210684A)

Title: ATOMICALLY SHARP EDGED CUTTING BLADES AND METHODS FOR MAKING SAME

Abstract: An atomically sharpened cutting edge for a cutting instrument is described. Focused ion beam (FIB) milling provides the atomically sharp cutting edge. In one embodiment, a cutting edge blank is provided and milled by FIB to form an atomically sharp edge. In another embodiment, a metal cutting edge blank is provided, a layer of a harder material is provided on at least one side of the blank and it is milled by FIB to form an atomically sharp edge.

Classifications:
International (IPC 8-9): A61B17/32 A61B17/3211 A61F9/013 B21D53/64 B23K17/00 B23P15/40 B26B21/54 B26B9/00 B26B9/02 C23C14/46 C23C14/58 (Advanced/Invention);
A61F9/013 C23C14/46 (Advanced/Non-invention);
A61B17/32 B21D53/00 B26B21/00 (Core/Invention)
International (IPC 1-7): A61B17/32 A61B19/00 B21D53/64 B23C3/12 B23H9/08 B23K17/00 B26B21/54 B26B9/00 B26B9/02 C23C14/46 C23C14/58 H01J37/317
CPC: A61B17/32 A61B2017/00526 A61B2017/0088 A61F9/0133 B23P15/40 B26B9/00 B26B21/54 B26B21/56 B26B21/58 H01J37/3056 H01J2237/3109 H01J2237/3114
European: A61B17/32 B23P15/40 B26B21/54 B26B21/56 B26B21/58 B26B9/00 H01J37/305B2 K61B17/00M K61B17/00S18 K61F9/013K T01J237/31C T01J237/31D
US: 30/346.54 30/346.540P 30/350 30/350P



Family:

Publication number	Publication date	Application number	Application date
AR042165 AA	20050615	AR2000P105289	20001006
AT240821 E	20030615	AT20000121449T	20000929
AU200064121 A1	20010426	AU20000064121	20001010

AU200064121 A5	20010426	AU20000064121D	20001010
AU782041 B2	20050630	AU20000064121	20001010
BRPI0004830 A	20011127	BR2000PI04830	20001013
CA2323259 AA	20010415	CA20002323259	20001012
CA2323259 C	20091201	CA20002323259	20001012
CZ20003600 A3	20010815	CZ20000003600	20000929
DE60002812 D1	20030626	DE20006002812	20000929
DE60002812 D1	20030626	DE20006002812T	20000929
DE60002812 T2	20040226	DE20006002812T	20000929
EP1092515 A1	20010418	EP20000121449	20000929
EP1092515 B1	20030521	EP20000121449	20000929
ES2199111 T3	20040216	ES20000121449T	20000929
IL138710 A0	20011031	IL20000138710	20000926
IL138710 A1	20041124	IL20000138710	20000926
JP2001161701 A2	20010619	JP20000308165	20001006
JP3553482 B2	20040811	JP20000308165	20001006
KR100755961 B1	20070906	KR20000057260	20000929
KR20010050739 A	20010615	KR20000057260	20000929
US2005210684 AA	20050929	US20050101374	20050406
US2007283578 AA	20071213	US20070743930	20070503

Priority:

US19990159678P 19991015 US20000635908 20000810 CA20002323259 20001012
US20050101374 20050406 US20070743930 20070503

Probable Assignee: BECTON DICKINSON AND CO

Assignee(s): (std): NEWMAN MARTIN H ; HEWMAN MARTIN H ; MARTIN H NEWMAN

Assignee(s): GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS CORP ; HEALTHCARE FINANCIAL SOLUTIONS LLC SUCCESSOR AGENT AS ; TURNER ACQUISITION LLC ; ULTRACELL MEDICAL TECHNOLOGIES INC ; BECTON DICKINSON AND CO ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS C ; BEAVER VISITEC INT ; BEAVER VISITEC INT (US) INC ; BEAVER VISITEC INT US INC ; BEAVER VISTEC INT US INC ; BECTON DICKINSON ACUTECARE INC

Inventor(s): (std): HEWMAN MARTIN H ; NEWMAN MARTIN H

Inventor(s): MARTIN H NEWMAN ; NEWMAN MARTIN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; DIMOCK STRATTON LLP; REINHOLD COHN AND PARTNERS; SANFORD TCOLB AND CO; EDWARDS AND ANGELL LLP; DAVID W HIGHET VP AND CHIEF IP COUNSEL BECTON DICKINSON AND CO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

143) Family number: 48435412 (US2011056713A)

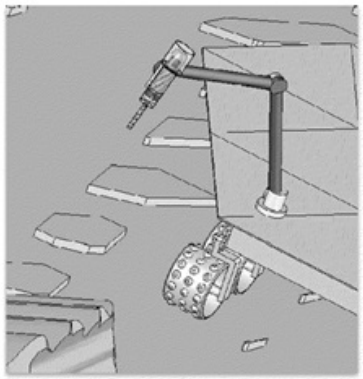
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Title: SINGLE PIEZO-ACTUATOR ROTARY-HAMMERING (SPARH) DRILL

Abstract: A Single Piezo-Actuator Rotary-Hammering (SPaRH) Drill includes a horn actuator having high power piezoelectric materials and a flexure pre-stress to increase the actuators effectiveness. The drill is a low mass, low power, compact coring drill measuring 20-cm high by 7-cm diameter and having a total weight of 2 kg including drive electronics. Using an average power of 50-Watts, the drill basalt is expected to cut basalt at a rate of 0.2 cm/min down to depth of 10-cm and create cuttings and an intact core. The drill is expected to operate under different environments including Martian ambient (6 Torr and down to -50 degrees centigrade), and liquid nitrogen temperatures (77 K) and low pressure (<<1 Torr) to simulate lunar polar and Europa conditions. Materials expected to be sampled include Kaolinite, Saddleback Basalt, Limestone, Volcanic Breccia, Siltstone, ice, permafrost and layered rocks with different hardness.

Classifications:
International (IPC 8-9): B23B37/00 B23B41/00 B23B45/16 B23B47/20 B25D11/00 B25D11/06 B25D13/00 B25D15/00 B25D17/00 E21B1/02 E21B10/36 E21B25/00 (Advanced/Invention)
CPC: E21B1/02 B23B37/00 B23B2260/108 E21B25/00
European: B23B37/00 E21B1/02 E21B25/00 L23B260/108
US: 173/113 173/171 173/2 173/2P 173/90 310/311 310/314 310/317 310/322 310/323.01 310/323.18 310/323.19 310/323.21

PatBase - US2011056713_AA



Family:

Publication number	Publication date	Application number	Application date
US2011056713 AA	20110310	US20100877390	20100908
US2012037390 AA	20120216	US20110282660	20111027
US8657027 BB	20140225	US20100877390	20100908
US8960325 BB	20150224	US20110282660	20111027
WO11031747 A2	20110317	WO2010US48112	20100908
WO11031747 A3	20110804	WO2010US48112	20100908
WO12058375 A2	20120503	WO2011US57998	20111027
WO12058375 A3	20120830	WO2011US57998	20111027

Priority:

US20070700575 20070131 US20090240569P 20090908 US20100877390 20100908
US20100407159P 20101027 US20110282660 20111027

Probable Assignee: CALIFORNIA INST OF TECHNOLOGY

Assignee(s): (std): ASKINS STEVE ; BADESCU MIRCEA ; BAO XIAOQI ; BAR COHEN YOSEPH ; CALIFORNIA INST OF TECHN ; SHERRIT STEWART ; OSTLUND PATRICK

Assignee(s): CALIFORNIA INST OF TECHNOLOGY ; NASA ; CALIFORNIA INSTITUTE OF TECHNOLOGY

Inventor(s): (std): BAO XIAOQI ; BAR COHEN YOSEPH ; BADESCU MIRCEA ; SHERRIT STEWART ; OSTLUND PATRICK ; ASKINS STEVE

Agent(s): JOSEPH B; MILSTEIN ZHANG AND WU LLC; MILSTEIN JOSEPH B

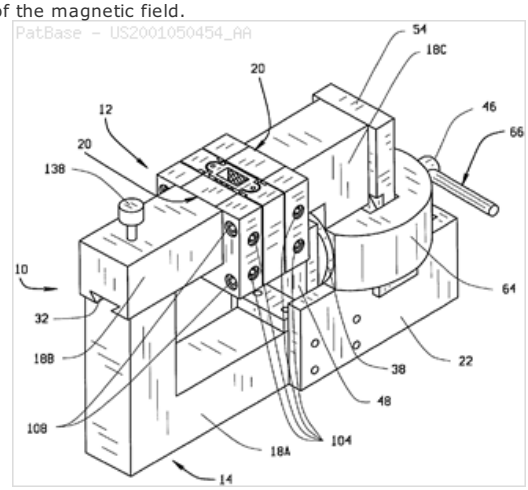
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

144) Family number: 29729412 (US2001050454A)

Title: HOLDING APPARATUS AND METHOD UTILIZING MAGNETORHEOLOGICAL MATERIAL

Abstract: A fixturing or workpiece holding and clamping apparatus or device, as well as method, utilizing the viscosity increase or solidification of a magnetorheological liquid or rigidity increase of a malleable semi-solid or clayish magnetorheological material to secure both regular and irregular shaped workpieces for precision machining or measuring operations. The workpiece is placed in a desired position and orientation in an open cell containing a magnetorheological liquid or medium which conforms to a portion of the surface of the workpiece. A magnet then applies a magnetic field to the magnetorheological liquid or material to increase the viscosity or rigidity thereof, applying a uniform clamping pressure to secure the workpiece in the desired position and orientation for machining or measuring operations. A clamp configured to apply a compressive force to the viscous or rigid magnetorheological medium optionally increases the uniform clamping pressure applied to the workpiece by compressing the magnetorheological material to further increase viscosity and rigidity thereof. The solidified magnetorheological material reverts to a liquid, semi-solid, or clayish state for removal of the fixture and workpiece upon release of the compressive force and removal of the magnetic field.

Classifications:
International (IPC 8-9): B25B1/18 B25B11/00 B25B5/06 (Advanced/Invention)
International (IPC 1-7): B25B1/00 B25B11/00
CPC: Y10T29/49998 B25B11/002 B25B1/18 B25B5/06 B25B5/061
European: B25B1/18 B25B11/00B B25B5/06 B25B5/06B
US: 269/7 269/7P 29/559 295/590



Family:

Publication number	Publication date	Application number	Application date
AU200113330 A1	20010827	AU20010013330	20001013
AU200113330 A5	20010827	AU20010013330	20001013
AU2001213330 AA	20010827	AU20010213330	20001013
GB200219119 A0	20020925	GB20020019119	20001013
GB2376198 A1	20021211	GB20020019119	20001013
US2001050454 AA	20011213	US20010901841	20010710
US6182954 BA	20010206	US19990356342	19990719
US6267364 BA	20010731	US20000506890	20000218
US6647611 BB	20031118	US20010901841	20010710
WO0160569 A1	20010823	WO2000US28374	20001013

Priority:

US19990356342 19990719 US20000506890 20000218 WO2000US28374 20001013
US20010901841 20010710

Probable Assignee: ZHANG XUESONG

Assignee(s): (std): ZHANG XUESONG

Assignee(s): XUESONG ZHANG

Inventor(s): (std): ZHANG XUESONG

Inventor(s): XUESONG ZHANG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

145) Family number: 30134419 (US2004000045A)

Title: MANUFACTURE OF SINGULATED SUPPORTS COMPRISING ARRAYS

Abstract: Apparatus and methods are disclosed for cutting a sheet of material into single supports where each of the single supports has an array area to which is bound an array of chemical compounds. The sheet comprises a plurality of score lines. The apparatus comprises an input conveyor, an output conveyor, a driver for moving the sheet from the input conveyor to the output conveyor and a breaking mechanism for breaking the sheet into single supports. The input conveyor, the output conveyor and the driver are each adapted to move the sheet without contacting the array area and an area on a surface of the support opposite the array area. Likewise, the breaking mechanism breaks the sheet into the single supports along the score lines without contacting the array area and an area on a surface of the support opposite the array area.

Classifications:

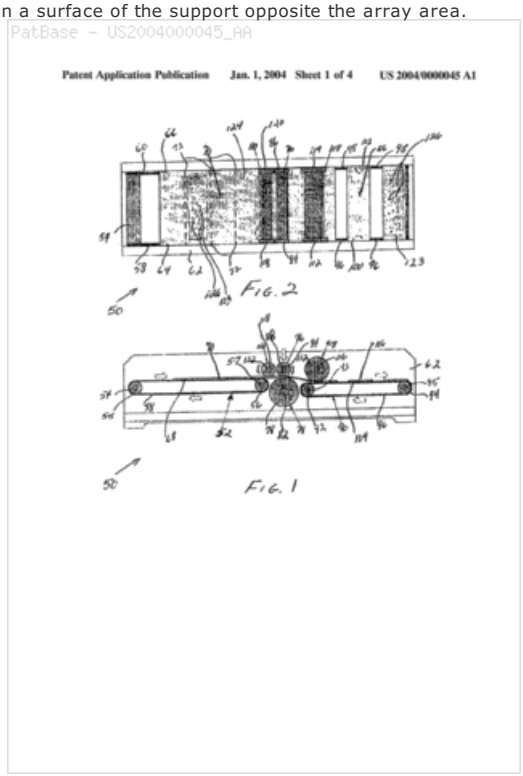
International (IPC 8-9): A61L2/00 B01J19/00 B05D3/00 B05D3/12 B26F3/00 C03B33/02 (Advanced/Invention);
A61L2/00 B01J19/00 B05D3/00 B05D3/12 B26F3/00 C03B33/00 (Core/Invention)

International (IPC 1-7): A61L2/00 B05D3/00 B05D3/12

CPC: Y10T29/4979 Y10T29/49885 Y10T29/53539 C03B33/074 B01J19/0046 B01J2219/00328 B01J2219/00378 B01J2219/00432 B01J2219/00497 B01J2219/00527 B01J2219/00605 B01J2219/00612 B01J2219/00637 B01J2219/00657 B01J2219/00659 B01J2219/00664 B01J2219/00675 B01J2219/00677 B01J2219/00689 B01J2219/00722 B01J2219/00725 B01J2219/00731 B65G49/065 B82Y30/00 C03B33/033 Y10T225/325 Y10T225/379

European: B01J19/00C B65G49/06D2B B82Y30/00 C03B33/033 C03B33/07C L01J219/00C10B2 L01J219/00C10B4 L01J219/00C10B8 L01J219/00C2B4H4 L01J219/00C2D24D L01J219/00C2D6 L01J219/00C2L L01J219/00C2L8 L01J219/00C4L10 L01J219/00C4L12 L01J219/00C4L14 L01J219/00C4L2 L01J219/00C4L20 L01J219/00C4L24 L01J219/00C4L2F L01J219/00C4L2L4 L01J219/00C6F2

US: 225/104 225/96.5 29/413 29/413P 29/458 29/458S 29/822 29/822S 427/2.1 427/2.100S 427/289 427/289S



Family:

Publication number	Publication date	Application number	Application date
US2004000045 AA	20040101	US20020186448	20020701
US7080766 BB	20060725	US20020186448	20020701

Priority:

US20020186448 20020701

Probable Assignee: AGILENT TECHNOLOGIES INC

Assignee(s): (std): AGILENT TECHNOLOGIES INC

Assignee(s): MCENTEE JOHN F ; WILLIAMSON ALEXANDER S

Inventor(s): (std): MCENTEE JOHN F ; WILLIAMSON ALEXANDER S

146) Family number: 52997429 (WO14083304A1)

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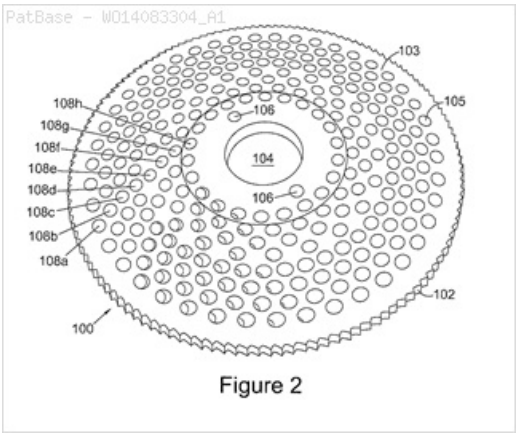
Title: COLD CUTTING/GRINDING DISC

Abstract: Disclosed is a cold cutting or grinding disc (100), adapted for use in grinding or cutting operations in potentially explosive environments. An increased surface area of the disc (100) is provided by a multiplicity of apertures (105) extending between the faces (101, 103) of the disc (100). The increased surface area facilitates heat dissipation from the surface of the disc (100) to the surroundings (typically air). The apertures (105) also reduce the surface area of the faces (101, 103) of the disc (100) and so reduce the amount of heat build up from friction between the faces (101, 103) of the disc (100) and the material or object being cut or ground.

Classifications:

International (IPC 8-9): B23D61/02 B24D5/10 B24D5/12 B24D7/02 B24D7/10 B26D1/14 B27B33/08 (Advanced/Invention)

CPC: B24D5/12 B24D5/10 B24D7/02 B24D7/10 B26D1/14 B23D61/025 B27B33/08



Family:

Publication number	Publication date	Application number	Application date
GB201221352 A0	20130109	GB20120021352	20121127

GB2508246 A1	20140528	GB20120021352	20121127
WO14083304 A1	20140605	WO2013GB52710	20131017

Priority:

GB20120021352 20121127

Probable Assignee: SAFEHOUSE HABITATS SCOTLAND LTD

Assignee(s): (std)**:** SAFEHOUSE HABITATS SCOTLAND LTD

Assignee(s): SAFEHOUSE HABITATS SCOTLAND LIMITED

Inventor(s): (std)**:** PRIESTLY GORDON IAIN

Inventor(s): GORDON IAIN PRIESTLY

Agent(s): NEWELL CAMPBELL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

147) Family number: 54185430 (US2015197016A)

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Title: AUTOMATED HAIR CUTTING SYSTEM AND METHOD OF OPERATION THEREOF

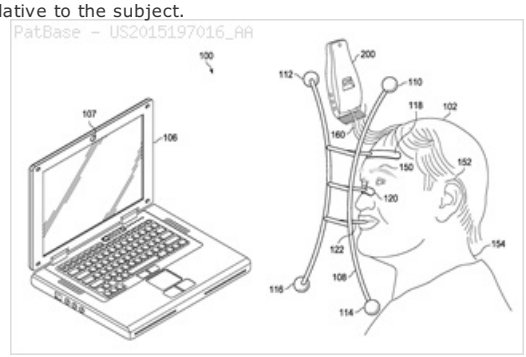
Abstract: Methods and devices for automatically cutting hair are disclosed herein. In one embodiment, an automated system for cutting hair on a subject comprises a hair cutting device, configured for manual manipulation, the hair cutting device comprising a cutting mechanism and configured to engage the cutting mechanism to cut said hair. The automated system also comprises a positioning device coupled to the subject, the positioning device configured to interact with the cutting device for determining a position of the hair cutting device relative to the subject.

Classifications:

International (IPC 8-9): B26B19/38 B26B21/40 (Advanced/Invention)

CPC: B26B19/388 B26B19/3806 B26B21/4081 Y10T83/04

US: 30/123 83/13



Family:

Publication number	Publication date	Application number	Application date
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CN104010778 B	20170517	CN201280063149	20121220
CN107088896 A	20170825	CN201710250773	20121220
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Priority:

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CN201280063149 20121220 US20120365935 20121220 WO2012US70856 20121220
US20140365935 20140616 US20180898835 20180219

Probable Assignee: KRENIK MATHEW W

Assignee(s): (std)**:** KRENIK MATHEW W ; KRENIK MATTHEW W

Inventor(s): (std)**:** KRENIK MATTHEW W

Agent(s): WILLIAMS DAVID JOHN; RICHARD G; ELDREDGE LAW FIRM; HITT DAVID H

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

148) Family number: 43835435 (US2012041450A)

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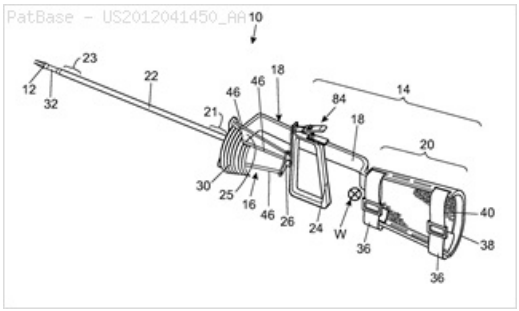
Title: MINIMAL ACCESS TOOL

Abstract: A minimal access tool includes a frame arranged to be attached to an arm of a user, a tool shaft having a proximal end and a distal end, where the tool shaft proximal end is connected to the frame. The tool further includes an input joint having a first end connected to the frame and a second end arranged to receive user input, the input joint including a virtual center-of-rotation (VC) mechanism which provides a center of rotation that generally coincides with a wrist joint of the user. An output joint is connected to the tool shaft distal end, where the output joint is coupled to the input joint via a mechanical transmission connected therebetween to correlate motion of the input joint to motion of the output joint.

Classifications:

International (IPC 8-9): A61B1/00 A61B17/00 A61B17/28 A61B17/29 A61B19/00 A61B34/00 B25J3/00 (Advanced/Invention); A61B17/00 A61B34/00 A61B34/30 (Advanced/Non-invention); A61B17/28 (Core/Invention)

CPC: A61B17/2909 A61B34/71 A61B34/75 A61B34/77 A61B2017/00323 A61B2017/00424 A61B2017/00442 A61B2017/00464 A61B2017/2917 A61B2017/2929 A61B2017/2931 A61B2017/2937 A61B2017/2939 A61B2017/2944 A61B2034/306 A61B2017/2918 A61B34/70 A61B90/53 A61B2017/00438 A61B2017/291
European: A61B17/29H K61B17/00E3G6C K61B17/00G2 K61B17/00G8 K61B17/00H2 K61B17/29H6C6 K61B17/29J2R K61B17/29J4 K61B17/29J6C6 K61B17/29J6L K61B17/29J6T K61B19/22D K61B19/22L K61B19/22P
US: 294/111 294/25 414/1 414/4 414/6 606/1 606/130 606/130P 606/1S 606/205 606/205S 606/206 901/30 901/31 901/36 901/41



Family:

Publication number	Publication date	Application number	Application date
AU2009234288 AA	20091015	AU20090234288	20090413
AU2009234288 BB	20140710	AU20090234288	20090413
CA2721216 AA	20091015	CA20092721216	20090413
CA2721216 C	20160614	CA20092721216	20090413
EP2268211 A2	20110105	EP20090729763	20090413
EP2268211 A4	20121010	EP20090729763	20090413
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JP5513483 B2	20140604	JP20110504234T	20090413
US2012041450 AA	20120216	US20090937523	20090413
US2014142595 AA	20140522	US20140166503	20140128
US2016256232 AA	20160908	US20160054068	20160225
US8668702 BB	20140311	US20090937523	20090413
US9675370 BB	20170613	US20140166503	20140128
WO09126955 A2	20091015	WO2009US40353	20090413
WO09126955 A3	20100211	WO2009US40353	20090413
WO09126955 A9	20100408	WO2009US40353	20090413
WO17147607 A1	20170831	WO2017US19771	20170227

Priority:

US20080044168P 20080411 US20090937523 20090413 WO2009US40353 20090413
US20100937523 20101130 US20140166503 20140128 US20160054068 20160225

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Assignee(s): (std): ABANI ROSA ; AWTAR SHORYA ; BOWLES GREGORY BRIAN ; FLEXDEX INC ; GEIGER JAMES ; MANSFIELD ANDREW ; UNIV MICHIGAN ; QUIGLEY PATRICK ; NIELSEN JENS ; TRUTNA TRISTAN THOMAS ; THE UNIV OF MICHIGAN ; TRUTNA TRISTAN ; UNIV MICHIGAN REGENTS

Assignee(s): THE REGENTS OF THE UNIVERSITY OF MICHIGAN

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Inventor(s): PATRICK QUIGLEY ; JAMES GEIGER ; SHORYA AWTAR ; JENS NIELSEN ; ROSA ABANI ; ANDREW MANSFIELD ; TRISTAN THOMAS TRUTNA

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; INABA YOSHIYUKI; MARSHALL GERSTEIN AND BORUN LLP; SHAY GLENN LLP; MANSFIELD STEPHANIE M ET AL; SHOOP RICHARD D ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

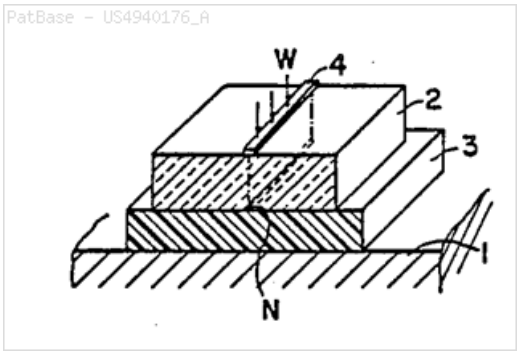
149) Family number: 2938437 (US4940176A)

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Title: APPARATUS FOR CUTTING WORKPIECES OF GLASS, CERAMICS, AND LIKE MATERIAL

Abstract: An apparatus for cutting a workpiece of glass, ceramic, or like material on a surface of which an incised cutting line has been formed beforehand has a backing roller made of an acrylic resin on which the workpiece is laid so that the incised line is in contact with the backing roller, a pressure applying roller with an annular pressure applying rim around its outer cylindrical surface for applying localized pressing force on the surface of the workpiece directly opposite the incised line, and a feeding mechanism for feeding the workpiece, thus pressed between the pressure applying rim and the backing roller, in the direction of the incised line, whereby the localized pressing force is applied over the entire length of the incised line. The localized pressing force creates a bending moment in the workpiece, producing a tension stress which becomes a maximum along the incised line, whereby the workpiece fractures and is thereby cut along the section in which incised line lies.

Classifications:
International (IPC 8-9): B26F3/00 B28D5/00 C03B33/02 C03B33/033 (Advanced/Invention);
B26F3/00 B28D5/00 C03B33/00 (Core/Invention)
International (IPC 1-7): C03B21/02 C03B33/02 C03B33/03 C03B33/23
CPC: Y10T225/325 Y10T225/371 C03B33/033 B26F3/002 B28D5/0011 B28D5/0029
European: B26F3/00B B28D5/00B1 B28D5/00B2B C03B33/033
US: 225/103 225/96.5



Family:

Publication number	Publication date	Application number	Application date
DE3821968 A1	19891012	DE19883821968	19880629
DE3821968 C2	19900920	DE19883821968	19880629
FR2629448 A1	19891006	FR19880009796	19880720
FR2629448 B1	19940513	FR19880009796	19880720
GB2216118 A1	19891004	GB19880014452	19880617
GB2216118 B2	19911016	GB19880014452	19880617
GB8814452 A0	19880720	GB19880014452	19880617
JP1246155 A2	19891002	JP19880075077	19880329
JP2085840 C3	19960823	JP19880075077	19880329
JP7100615 B4	19951101	JP19880075077	19880329
MX169686 B	19930719	MX19880012021	19880623
US4940176 A	19900710	US19880207166	19880615

Priority:

JP19880075077 19880329

Probable Assignee: SAEKI K

Assignee(s): (std)**:** SATO KAZUO ; SATO Y ; SATO YASUO ; SAEKI K ; SAEKI KUNIO ; YASUO SATO Y KUNIO SAEKI

Assignee(s): KUNIO SAEKI ; SAEKI KUNIO MACHIDA TOKIO TOKYO JP ; YASUO SATO ; SATO YASUO TOKIO TOKYO JP

Inventor(s): (std)**:** SATO KAZUO ; SATO YASUO ; SAEKI KUNIO

Inventor(s): SAEKI KUNIO MACHIDA TOKIO TOKYO JP ; KUNIO SAEKI ; SATO YASUO TOKIO TOKYO JP ; YASUO SATO

150) Family number: 30582438 (US2002077631A)

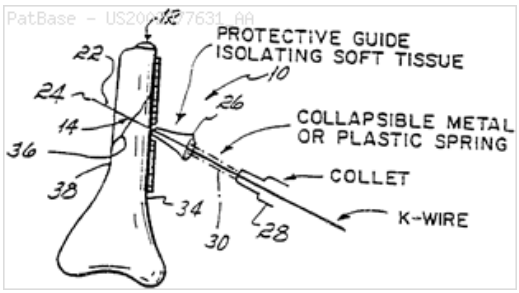
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Title: APPARATUS AND METHODS FOR TENDON OR LIGAMENT REPAIR

Abstract: Apparatus and methods for repairing damaged tendons or ligaments. Various repair apparatus include an elongate tensile member and a pair of anchor structures connected for movement along the tensile member on either side of a repair site, such as a tear or laceration. The anchor structures may take many forms, and may include barbed, helical, and crimp-type anchors. In the preferred embodiments, at least one anchor structure is movable along the elongate tensile member to assist with adjusting a tendon segment to an appropriate repair position and the anchor structure or structures are then lockable onto the elongate tensile member to assist with affixing the tendon at the repair position. The invention further provides tendon-to-bone repair apparatus and methods employing similar concepts. Tendon retrieval devices of the invention include helical members for rotating into a tendon end and subsequently moving the tendon to an appropriate operating position.

Classifications:

International (IPC 8-9): A61B A61B1/00 A61B17/00 A61B17/03 A61B17/04 A61B17/06 A61B17/064 A61B17/068 A61B17/08 A61B17/11 A61B17/56 A61B17/58 A61B17/68 A61F A61F2/08 A61F5/00 B25B23/00 (Advanced/Invention);
A61B17/00 A61B17/06 A61B17/064 A61B17/068 A61B17/11 A61B17/16 A61B17/56 A61B19/00 A61F2/08 (Advanced/Non-invention);
A61B17/00 A61B17/03 A61B17/04 A61B17/56 A61B17/58 A61B17/68 A61F2/08 (Core/Invention);
A61B17/06 A61B17/064 A61B17/068 A61B17/16 A61B19/00 (Core/Non-invention);
A61B A61F (Subclass/Invention);
A61B (Subclass/Non-invention)



International (IPC 1-7): A61B1/00 A61B17/00 A61B17/04 A61F2/08

CPC: A61B2017/044 A61B2017/0441 A61B17/0682 A61B17/0686 A61B2017/06052 A61B2017/06076 A61B2017/06171 A61B2017/06176 A61F2002/087 A61B2090/0801 A61B17/1684 A61B17/16 A61B17/0401 A61B17/0487 A61B17/064 A61B17/1146 A61B17/1686 A61B17/683 A61B17/685 A61B2017/0404 A61B2017/0406 A61B2017/0408 A61B2017/0409 A61B2017/0412 A61B2017/0414 A61B2017/0427 A61B2017/0437 A61B2017/0445 A61B2017/0454 A61B2017/0456 A61B2017/0458 A61B2017/0461 A61B2017/0462 A61B2017/0464 A61B2017/0488 A61B2017/0496 A61B2017/06028 A61B2017/06057 A61B2017/0641 A61B2017/0646 A61B2017/0648 A61B2017/0649 A61F2/0805 A61F2/0811 A61F2002/0829 A61F2002/0835 A61F2002/0858 A61F2002/0888

European: A61B17/04A A61B17/04K A61B17/11T A61B17/16S14 A61B17/16S16 A61B17/68D A61B17/68E A61F2/08F K61B17/04A2 K61B17/04A24 K61B17/04A24R K61B17/04A3 K61B17/04A30 K61B17/04A30C K61B17/04A32 K61B17/04A4 K61B17/04A40C K61B17/04A40F K61B17/04A40L K61B17/04A40P K61B17/04A40P2 K61B17/04A5 K61B17/04A50 K61B17/04A7 K61B17/04A8 K61B17/04K K61B17/04K5 K61B17/04T K61B17/064 K61B17/064A K61B17/064M K61B17/064T2 K61B17/064V K61B17/068B K61B17/068B4 K61B17/06A9 K61B17/06B K61B17/06D K61B17/06N2 K61B17/06S2 K61B17/06S4 K61B17/11T K61B17/16 K61B19/48B K61F2/08D K61F2/08F11E K61F2/08F3A2 K61F2/08F3A4 K61F2/08F7E K61F2/08F7J

US: 606/103 606/104 606/151 606/151S 606/213 606/213P 606/213S 606/232 606/232P 606/233 606/309 606/309S 606/325 606/325S 606/328 606/328S 606/72 606/916 606/916S 623/13.13 623/13.130P 623/13.14 623/13.140S 81/436

Family:

Publication number	Publication date	Application number	Application date

AT355799 E	20070315	AT19990954936T	19991018
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AU775491 B2	20040805	AU20000011158	19991018
BRPI0212910 A	20060523	BR2002PI12910	20021002
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RU2224484 C2	20040227	RU20020113106	19991018
TR200201070 T2	20020923	TR20020001070T	19991018
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Priority:

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AU20000011158 19991018 BR1999PI17519 19991018 PL19990354509 19991018
NZ19990518148 19991018 RU20020113106 19991018 WO1999US24098 19991018
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US20090606423 20091027

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Inventor(s): WILLIAMSON ; WILLIAMSON WARREN PIV ; WARREN P WILLIAMSON ; WARREN P WILLIAMSON IV ; VILL'JAMSON UORREN P. IV ; LAWRENCE M LUBBERS ; TERENCE LEE MURPHY ; THOMAS J WARD ; THOMAS WARD ; NICKOLA SYMONE LEWIS ; PERRY DE FAZIO ; PERRY DEFAZIO ; MARK A GOLDIN ; MATT HEDDLESTON ; MATT HUDDLESTON ; MATTHEW J HUDDLESTON ; KH'JUZ KENNET EH. ; JEREMY JARRET ; JEREMY JARRETT ; JOSEPH E YOUNG ; KENNETH E HUGHES ; HUGHES KENNETHE ; CRAIG B

BERKY ; CRAIG BERKY ; BRIAN SCOTT SCHUMACHER ; CARL R COLEMAN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO; LLOYD WISE AND CO; REINHOLD COHN AND PARTNERS; WOOD HERRON AND EVANS LLP

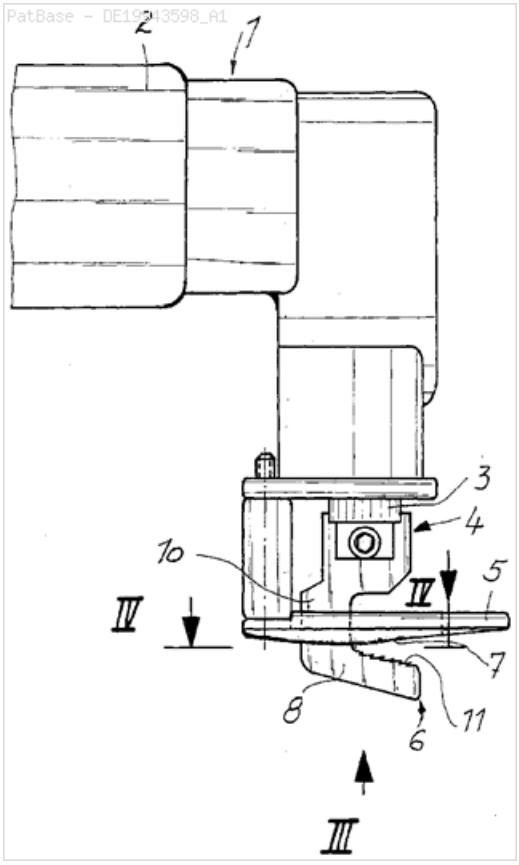
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151) Family number: 17902439 (DE19943598A1)

Title: Battery operated electric hand tool with oscillating tool holder moving vertically to the work

Abstract: The hand tool consists of a tubular motor housing (2) with a head section containing a vertically movable tool holder in which a cutting tool (6) is held between two arms of a convex plate (5) rigidly attached to the body and which is held against a workpiece.

Classifications:
International (IPC 8-9): B28D1/26 B28D1/32 (Advanced/Invention); B28D1/00 B28D1/26 (Core/Invention)
International (IPC 1-7): B23D45/16 B25F1/00 B25F5/00
CPC: B28D1/26 B28D1/32
European: B28D1/26 B28D1/32



Family:

Publication number	Publication date	Application number	Application date
DE19943598 A1	20001019	DE19991043598	19990911
DE29906928 U1	19990826	DE19992006928U	19990417

Priority:
DE19992006928U 19990417 DE19991043598 19990911

Probable Assignee: FLOSBACH WERNER GMBH CO KG
Assignee(s): (std)**:** FLOSBACH WERNER GMBH CO KG
Assignee(s): WERNER FLOSBACH GMBH AND CO KG

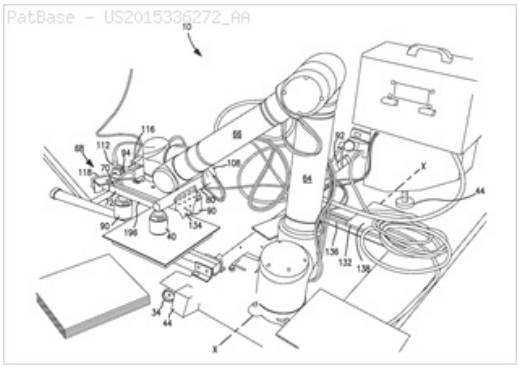
152) Family number: 59673439 (US2015336272A)

Title: MACHINE FOR ALIGNING ITEMS IN A PATTERN AND A METHOD OF USE

Abstract: A machine for aligning items in a pattern and a method of using the machine. The machine includes a robotic assembly having four spaced apart joints. The joints including a base joint which is mounted to a stationary surface and a wrist joint onto which an effector is secured. A suction cup is mounted on the effector and is connected to a vacuum source. The suction cup is capable to picking up, positioning and releasing a new item relative to a first laid item and a second laid item. The first and second laid items each have an upper surface and each is aligned perpendicular to one another. The machine further includes three edge sensors and three height sensor. At least one of the edge and height sensors are secured to a first side of the effector and is capable of detecting an edge aligned along an X-X axis of the first laid item and the height of the upper surface of the first laid item, and at least one of the edge and height sensors are secured to a second side of the effector and is capable of detecting an edge aligned along a Y-Y axis of the second laid item and the height of the upper surface of the second laid item. The machine further includes a control mechanism for operating the robotic assembly, the vacuum source and the edge and height sensors. Lastly, the machine includes a power source for supplying power to the control mechanism.

Classifications:
International (IPC 8-9): B25J13/08 B25J15/06 B25J19/02 B25J5/00 B25J5/02 B25J9/00 B25J9/02 B25J9/16 B32B3/14 B32B37/00 B32B37/12 B32B37/18 B32B38/18 B32B41/00 E04B1/00 E04F21/18

E04F21/20 E04F21/22 E04G21/22 (Advanced/Invention);
E04F21/18 (Advanced/Non-invention)
CPC: E04G21/22 B25J9/1687 B25J9/023 B25J5/007 B25J5/02 B32B37/0046 B32B37/1284 B32B37/18 B32B38/1808 B32B41/00 B32B38/1858 B32B3/14 Y10S901/02 Y10S901/01 B32B2038/1891 B32B2309/72 B25J5/00 E04F21/1872 B25J9/0018 B25J13/089 B25J15/0616 B25J19/021 E04F21/18 E04F21/20 E04G21/167 E04F21/1844 E04F21/22
US: 1/1 156/64 414/737 901/1 901/2



Family:

Publication number	Publication date	Application number	Application date
US2015336272 AA	20151126	US20150738162	20150612
US9074381 BA	20150707	US20140261629	20140425
US9358688 BB	20160607	US20150738162	20150612
WO15164449 A1	20151029	WO2015US26987	20150422

Priority:

US20140261629 20140425 US20150738162 20150612

Probable Assignee: 4X2YZ TECHNOLOGIES CORP

Assignee(s): (std)**:** DREW GARY ; DREW GARY LEE

Assignee(s): 4X2YZ TECHNOLOGIES CORP

Inventor(s): (std)**:** DREW GARY ; DREW GARY LEE

Agent(s): THOMAS J; WILHELM LAW SC; NORTHWIND IP LAW SC; CONNELLY THOMAS ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

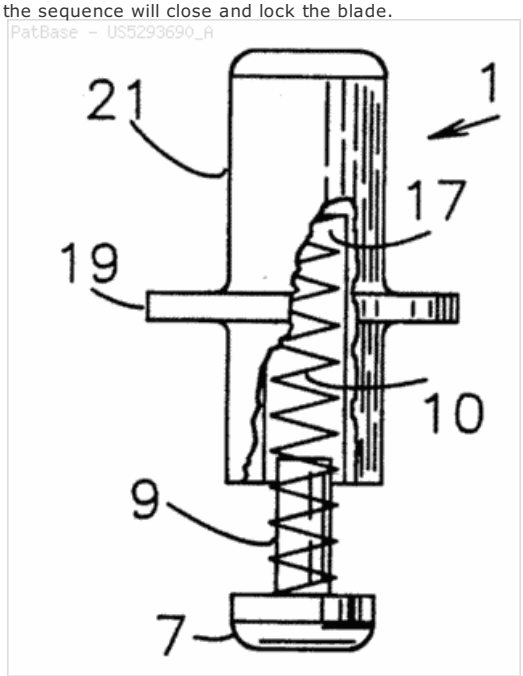
153) Family number: 11485445 (US5293690A)

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Title: Locking device for folding knife, tool, etc.

Abstract: In a folding knife or hand tool having a handle and a blade pivotally connected to the handle, a spring loaded crossbolt 1 is fitted to the blade tang. One end of crossbolt 1 protrudes through an arcuate slot in the handle, crossbolt slot 32. A locking collar 19 on crossbolt 1 engages locking counterbores A 34 and B 36 located on the blade side of the opposite ends of crossbolt slot 32. When finger pressure is applied to the end of crossbolt 1, locking collar 19 is forced to disengage locking counterbore A 34 and retreat to a relieved area on the blade, collar relief 52. This permits the blade to be extended by forward finger pressure on crossbolt 1. When the blade is fully extended, spring pressure forces locking collar 19 into the opposite locking counterbore B 36, thus locking the blade. Reversing the sequence will close and lock the blade.

Classifications:
International (IPC 8-9): B26B1/04 (Advanced/Invention)
International (IPC 1-7): B26B1/00 B26B1/02 B26B1/04
CPC: B26B1/046
US: 30/154 30/160 30/161



Family:

Publication number	Publication date	Application number	Application date
US5293690 A	19940315	US19920834463	19920212

Priority:

US19920834463 19920212

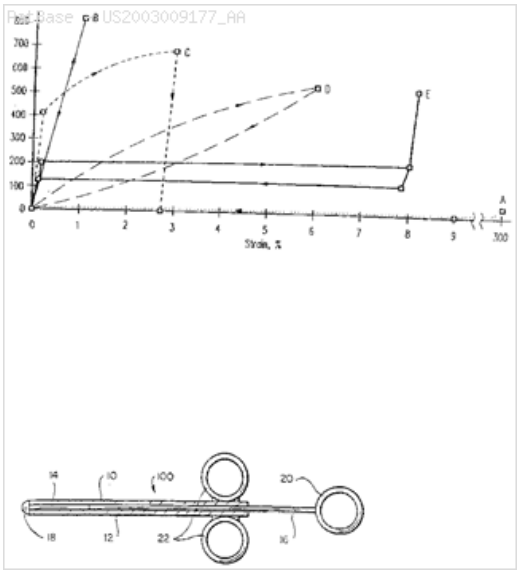
Probable Assignee: CASSADY WILLIAM E

Assignee(s): (std): CASSADY WILLIAM E
Inventor(s): (std): CASSADY WILLIAM E

154) Family number: 43820451 (US2003009177A)

Title: METHOD OF MANIPULATING MATTER IN A MAMMALIAN BODY

Abstract: The invention provides a method of using an apparatus for manipulating matter in a confined or inaccessible space, comprising providing an apparatus having manipulator means at least partly constructed of one or more bent or twisted elongate shape memory alloy members having pseudoelasticity at the intended manipulation temperature, and a hollow housing or cannula capable of holding at least the shape memory alloy member(s) in a relatively straightened state, and actuating means for extending the shape memory alloy member(s) from the housing to manipulate matter within the space and for withdrawing the shape memory alloy member(s) into the housing, the arrangement being such that the shape-memory alloy member(s) bend(s) or twist(s) pseudoelastically in a lateral or helical sense to manipulate the matter on extending from the housing at the manipulation temperature, and become(s) relatively straightened on withdrawal into the housing at the temperature.



Classifications:
International (IPC 8-9): A61B10/00 A61B10/02 A61B10/06 A61B17/00 A61B17/02 A61B17/04 A61B17/06 A61B17/08 A61B17/10 A61B17/12 A61B17/138 A61B17/22 A61B17/221 A61B17/26 A61B17/28 A61B17/30 A61B17/32 A61B17/3201 A61B17/34 A61B18/08 A61B18/14 A61F11/00 A61F2/00 A61F2/16 A61M25/00 B25B9/00 B25J1/00 B25J15/08 B25J18/06 B25J19/00 B26B13/00 B26B13/26 (Advanced/Invention);
A61B10/06 A61B17/00 A61B17/06 A61B17/30 A61B17/34 A61B18/14 A61F2/00 (Advanced/Non-invention);
A61B10/00 A61B10/02 A61B17/02 A61B17/03 A61B17/04 A61B17/12 A61B17/22 A61B17/28 A61B17/32 B25B9/00 B25J1/00 B25J15/08 B26B13/00 (Core/Invention);
A61B17/00 A61B17/06 A61B17/30 A61B17/34 A61B18/14 A61F2/00 (Core/Non-invention)
International (IPC 1-7): A61B10/00 A61B17/00 A61B17/02 A61B17/04 A61B17/06 A61B17/08 A61B17/10 A61B17/12 A61B17/22 A61B17/28 A61B17/32 A61B17/38 A61B17/56 A61B18/08 A61B18/12 A61M25/00 B25B9/00 B25J1/00 B25J15/08 B25J18/06 B25J19/00 B26B13/00 B26B13/26
CPC: A61B17/295 A61B2090/0811 A61B2017/2212 A61B2017/2215 B25B9/00 A61B10/02 A61B10/06 A61B17/00234 A61B17/0218 A61B17/0469 A61B17/0625 A61B17/08 A61B17/10 A61B17/12013 A61B17/221 A61B17/29 A61B17/30 A61B17/320016 A61B17/3201 A61B17/32056 A61B17/3421 A61B18/082 A61B18/10 A61B2017/00287 A61B2017/00349 A61B2017/00353 A61B2017/0038 A61B2017/00455 A61B2017/00867 A61B2017/0409 A61B2017/06052 A61B2017/06171 A61B2017/22072 A61B2017/2905 A61B2017/2927 A61B2017/2936 A61B2017/2937 A61B2017/2943 A61B2017/303 A61B2017/320064 A61B2017/32113 A61B2018/00642 A61B2018/00791 A61B2018/1407 A61F2002/30093 A61F2210/0019 B26B13/26
European: A61B10/02 A61B17/00E A61B17/02E A61B17/04E A61B17/062N A61B17/08 A61B17/10 A61B17/12L2 A61B17/221 A61B17/29 A61B17/295 A61B17/3205S A61B17/32E A61B18/08B B25B9/00 B26B13/26 K61B10/06 K61B17/00E2 K61B17/00E5 K61B17/00E6 K61B17/00F2T K61B17/00G14 K61B17/00S12 K61B17/02E K61B17/04A5 K61B17/06B K61B17/06S2 K61B17/08 K61B17/10 K61B17/12L2 K61B17/221C K61B17/221P K61B17/22K K61B17/29F6 K61B17/29J2 K61B17/29J6C4 K61B17/29J6C6 K61B17/29J6R K61B17/30 K61B17/30D K61B17/3201 K61B17/3211G K61B17/32T K61B17/34G4 K61B17/38E8 K61B18/00H12B K61B18/00H2 K61B18/08B2 K61B18/10 K61B18/14C2 K61B19/48H8 K61F2/30A1W20B K61F210/00D2
US: 606/113 606/114 606/114P 606/127 606/127P 606/128 606/139 606/142 606/143 606/147 606/151 606/170 606/174 606/207 606/232 606/78

Family:

Publication number	Publication date	Application number	Application date
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AT197906 E	20001215	AT19910920098T	19911009
AT294610 E	20050515	AT19910109072T	19911009
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CA2064830 AA	19920214	CA19902064830	19900816
CA2064830 C	20010123	CA19902064830	19900816
CA2093821 AA	19930408	CA19912093821	19911009
DE69024219 D1	19960125	DE19906024219	19900816
DE69024219 T2	19961107	DE19906024219T	19900816
DE69132488 D1	20010111	DE19916032488	19911009
DE69132488 T2	20010405	DE19916032488T	19911009
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DE69133457 T2	20060216	DE19916033457T	19911009
DE69133600 D1	20080911	DE19916033600	19911009
DE69133618 D1	20090730	DE19916033618	19911009
DK1027906 T3	20050801	DK19910109072T	19911009
EP0487645 A1	19920603	EP19900913995	19900816
EP0487645 B1	19951213	EP19900913995	19900816
EP0554361 A1	19930811	EP19910920098	19911009
EP0554361 A4	19950111	EP19910920098	19911009
EP0554361 B1	20001206	EP19910920098	19911009
EP1027906 A2	20000816	EP20000109072	19911009
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EP1027906 B1	20050504	EP20000109072	19911009
EP1277442 A2	20030122	EP20020023831	19911009
EP1277442 A3	20040310	EP20020023831	19911009
EP1277442 B1	20080730	EP20020023831	19911009
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EP1484077 B1	20090617	EP20040009449	19911009
ES2241527 T3	20051101	ES20000109072T	19911009
ES2327332 T3	20091028	ES20040009449T	19911009
JP2002137187 A2	20020514	JP20010251687	20010822
JP2004130102 A2	20040430	JP20030282866	20030730
JP3256540 B2	20020212	JP19910518471T	19911009
JP3677469 B2	20050803	JP20010251687	20010822
JP4507363 T2	19921224	JP19900512977T	19900816
JP6502354 T2	19940317	JP19910518471T	19911009
US2003009177 AA	20030109	US20020238813	20020909
US2006052799 AA	20060309	US20050196944	20050804
US5486183 A	19960123	US19910774016	19911009
US5509923 A	19960423	US19900631809	19901221
US5601572 A	19970211	US19950486550	19950607
US5632746 A	19970527	US19920843775	19920228
US5720754 A	19980224	US19950430989	19950428
US5749879 A	19980512	US19930022259	19930224
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US5904690 A	19990518	US19950483785	19950607
US6004330 A	19991221	US19950398629	19950303
US6004330 C1	20140306	US19950398629	19950303
US6447523 BA	20020910	US19970914081	19970818
US6986774 BB	20060117	US20020238813	20020909
US7722626 BB	20100525	US20050196944	20050804
WO9102493 A1	19910307	WO1990US04624	19900816
WO9205828 A1	19920416	WO1991US07553	19911009

Priority:

US19890394463	19890816	JP19900512977	19900816	JP19900512977	19900816
JP20010251687	19900816	WO1990US04624	19900816	US19900594768	19901009
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EP20000109072	19911009	EP20020023831	19911009	US19910774016	19911009
WO1991US07553	19911009	US19920843775	19920228	US19930022259	19930224
US19950398629	19950303	US19950430989	19950428	US19950483785	19950607
US19950474200	19950607	US19950486550	19950607	US19970914081	19970818
US20020238813	20020909	US20050196944	20050804		

Probable Assignee: MEDTRONIC INC

Assignee(s): (std)**:** MEDTRONIC INC ; MEDTRONIC VASCULAR INC ; RAYCHEM CORP

Assignee(s): PYKA WALTER R ; MIDDLEMAN LEE M ; PONCET PHILIPPE ; RAYCHEM A CORP OF DE CORP ; RAYCHEM A CORP OF DELAWARE CORP ; RAYCHEM CORP MENLO PARK CALIF US ; VAN DYK KARL ; BUHLER MICHAEL ; DYK KARL VAN ; JERVIS JAMES E

Inventor(s): (std)**:** JERVIS JAMES ; PYKA WALTER ; MIDDLEMAN LEE ; MIDDLEMAN M ; JERVIS E ; PYKA R ; ZADNO REZA ; VAN DYKE KARL ; DYK KARL VAN ; JERVIS JAMES E ; PONCET PHILIPPE ; BUHLER MICHAEL ; VAN DYK KARL ; MIDDLEMAN LEE M ; PYKA WALTER R

Inventor(s): LEE M MIDDLEMAN ; KARL VAN DYK ; WALTER R PYKA ; JAMES E JERVIS ; MICHAEL BUHLER ; PHILIPPE PONCET

Agent(s): GRIFFITH HACK; MARKS AND CLERK; HUGHES ANDREA MICHELLE; MEDTRONIC VASCULAR INC IP LEGAL DEPARTMENT; MARC

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT JP KR LI LU NL SE

155) Family number: 20142453 (GB743986A)

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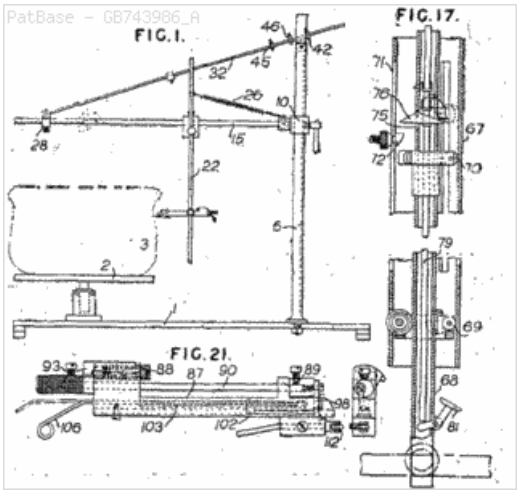
Title: An improved machine for lining or cutting designs on ceramics and like surfaces

Abstract: 743,986. Ornamenting. FERGUSON, E. C. Dec. 30, 1953 [Sept. 30, 1952], No. 24424/52. Class 93. A lining machine comprises a base having a rotatable table on which is placed the article to be lined, a pillar adjustably mounted on the base, a main arm or bar freely mounted on a pivot adjustable on the pillar, a drop bar or instrument holding.member adjustably and rotatably mounted on the arm or bar and adapted to carry a crayon or cutting instrument whereby it can be brought to the surface of the article to mark or cut it; spring means to hold the crayon or cutting instrument against the surface of the article and sliding dogs for positioning the crayon or cutting instrument. As shown in Fig. 1 an article 3 to be lined is placed on a rotatable table 2, mounted on a base 1. An upright 6 is adjustably bolted in a slot in the base and has a sleeve 10 which can be clamped to the upright and has pivoted to the. sleeve a bar 15. A pair of bars 32 are pivoted to a height adjuster 28 on the bar 15; 31 one bar carries a holding dog 42 and the other carries adjustable dogs 45, 46, which are spaced apart the required distance. The top of the upright 6 is forked and has a sloping base and a knife edge; a dog is moved up this base to engage with the knife edge and adjust the angle of the bar 15. A crayon or cutting instrument is mounted on a bar 22 which is clamped to the bar 15 so that it can rock in a vertical plane parallel to the bar. A spring 26 connects the bar 22 to the clamp 10 to urge the crayon or cutting instrument to contact Alternatively for adjusting the angle of the bar 15 and hence the height of the crayon or cutting instrument pivoted arms carrying dogs are mounted on a member clamped to the upright 6 and the bar 15 has an extension which engages a selected dog or the arms are pivotally mounted on the bar 15 and carry the dogs the selected dog engaging a projection on a member clamped to the bar 15. Alternatively a tubular member 67, Fig. 17, has spaced slots 71 in which are adjustably mounted dogs 72 and an inner tube 68, carrying the crayon or cutting instrument, is guided by rollers 69, 70. The tube 68 has apertures 75, in line with the slots 71, in which are pivoted toggles 76 which have bifurcated ends engaging collars on a rod 79. A finger lever 81 at the bottom is depressed to raise the rod to disengage the toggle engaging a dog and so allow adjustment of the height of the tube 68. The holder 87, Fig. 21, for the crayon has an extension 88 and a lug 89. A rod 90 carrying a blade 98 is mounted in holes therein and has an arcuate member 93 with lateral ears and two depressions into one of which a ball passes as the rod is rotated. The base has two superimposed interconnected apertures; the lower one houses the crayon and the other has a spring urged rod 103 carrying a crayon presser 102. By rotating the rod 90 the blade 98 is rotated to allow the crayon to extend. The rod can be withdrawn by a handle 106 and roller 112 is adjustably mounted on the base. The holder is mounted in a clamp on the bar 22.

Classifications:

International (IPC 8-9): B25H7/00 B44B3/00 C04B41/45 C04B41/81 (Advanced/Invention)

International (IPC 1-7): B28D1/22 C04B41/16
CPC: B25H7/00 B44B3/00 B44B2700/04 C04B41/009 C04B41/4505 C04B41/81
European: B25H7/00 B44B3/00 C04B41/00V C04B41/45B C04B41/81 L44B700/04



Family:

Publication number	Publication date	Application number	Application date
GB743986 A	19560125	GB19520024424	19520930

Priority:

GB19520024424 19520930

Probable Assignee: EDWARD CHARLES FERGUSON

Assignee(s): (std)**:** EDWARD CHARLES FERGUSON

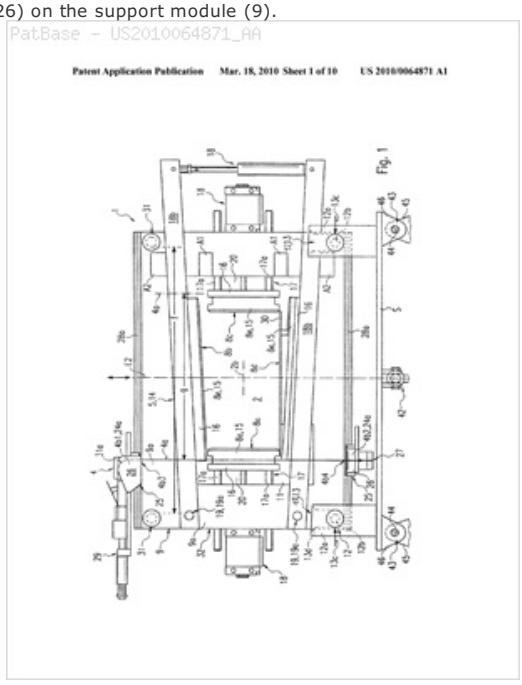
156) Family number: 42299457 (US2010064871A)

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Title: DEVICE FOR SEPARATING A STRAND OF PLASTIC MATERIAL WITH A SUPPORT WHICH SUPPORTS A NOTCHING DEVICE AND A CUTTING DEVICE

Abstract: Device (1) for separating a strand (3) of plastic material, which can be moved along a conveying passage (2), into longitudinal portions (3a), having at least one notching device (5) which on all sides of the passage (2) comprises in each case a notching tool (8a to 8d) which can be moved by means of a tool drive (18) in a tool guide (17) between an initial notching position and a notching position, wherein the cutting device (4) comprises two cutting wire holders (24) which are disposed in mutually opposite-lying boundary regions of the passage (2) and which can be moved transversely with respect to the passage (2) by means of a cutting drive (26) in a cutting guide (25), and wherein the notching device (5) with its notching tools (8a to 8d) are disposed its passage (2) the support module (9) which is moveable forwards and backwards [sic]. In order to simplify the devices themselves and also the assembly thereof, the cutting device (4) is disposed with its cutting wire holders (24), its cutting guide (25) and its cutting drive (26) on the support module (9).

Classifications:
International (IPC 8-9): B26D1/547 B26D1/553 B26D3/14 B26D9/00 B28B11/08 B28B11/14 B28B11/16 (Advanced/Invention); B26D1/01 B26D9/00 B28B11/08 B28B11/14 (Core/Invention)
CPC: Y10T83/0207 Y10T83/0333 Y10T83/472 Y10T83/9292 Y10T83/9442 B28B11/0863 B28B11/16
European: B28B11/08E B28B11/16
US: 83/307.1 83/651.1 83/651.100P 83/692 83/692S 83/862 83/879



Family:

Publication number	Publication date	Application number	Application date
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CN101600548 A	20091209	CN200880003865	20080414
CN101600548 B	20130320	CN200880003865	20080414
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WO08125326 A2	20081023	WO2008EP02954	20080414
WO08125326 A3	20090212	WO2008EP02954	20080414

Priority:

DE200710017485 20070413 EP20080748909 20080414 WO2008EP02954 20080414

Probable Assignee: HANS LINGL ANLAGENBAU U VERFAHRENSTECHNIK GMBH AND CO KG

Assignee(s): (std): KHANS LINGL ANLAGENBAU U FERFARENSTEKHNIK GMBKH U KO KG ; KHANS LINGL ANLAGENBAU UND FERFARENSTEKHNIK GMBKH UND KO KG ; LINGL ANLAGENBAU ; KOCH RAINER

Assignee(s): HANS LINGL ANLAGENBAU U VERFAHRENSTECHNIK GMBH AND ; HANS LINGL ANLAGENBAU U VERFAHRENSTECHNIK GMBH AND CO KG ; HANS LINGL ANLAGENBAU UND VERFAHRENSTECHNIK GMBH AND CO KG

Inventor(s): (std): KOCH RAINER ; KOKH RAJNER ; RAINER KOCH

Agent(s): MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; KOERBER MARTIN HANS; SCULLY SCOTT MURPHY AND PRESSER PC; SCULLY SCOTT MURPHY AND PRESSER P C; KOERBER MARTIN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

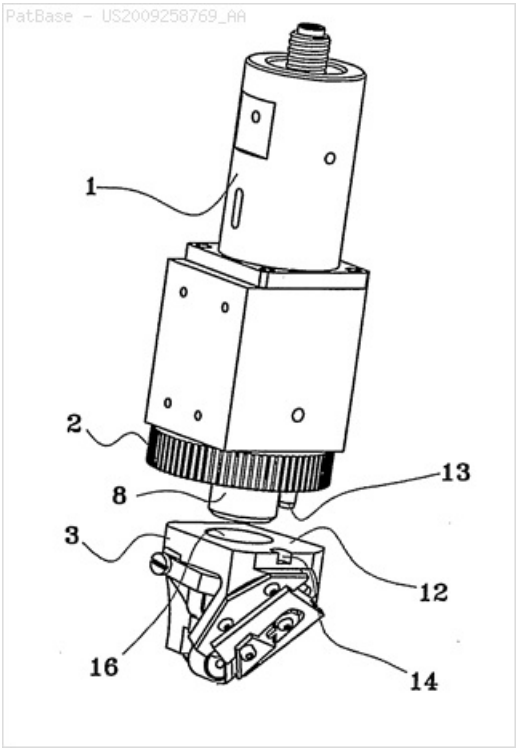
157) Family number: 41039457 (US2009258769A)

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Title: SYSTEM FOR THE RAPID CHANGE OF HEAD ON OPERATING MACHINES

Abstract: A system is disclosed for the rapid change of heads in operating machines, such as equipment for the cut and/or decoration of passe-partout, or of items made of cardboard, glass, ceramic or the like. A system according to the present invention couples the head of the machine with a machine arm through a connecting element that contains one or more magnets. Said magnets retain the head connected to the connecting device by attraction, but also allow the head to be easily removed with just one hand.

Classifications:
International (IPC 8-9): B23B31/28 B23Q3/157 B23Q3/18 B25J19/06 (Advanced/Invention);
B23Q3/157 B23Q3/18 B25J19/06 (Core/Invention)
CPC: Y10T279/23 Y10T279/3487 Y10T483/1733 B23Q3/15553
European: B23Q3/155D5
US: 279/128 279/156 483/30 483/30P



Family:

Publication number	Publication date	Application number	Application date
AT443596 E	20091015	AT20060796210T	20060703
CN101479074 A	20090708	CN200680055228	20060703
CN101479074 B	20111102	CN200680055228	20060703
DE602006009424 D1	20091105	DE200660009424T	20060703
EP2035186 A1	20090318	EP20060796210	20060703
EP2035186 B1	20090923	EP20060796210	20060703
US2009258769 AA	20091015	US20060306693	20060703
US8403340 BB	20130326	US20060306693	20060703
WO08004253 A1	20080110	WO2006IT00508	20060703

Priority:

WO2006IT00508 20060703

Probable Assignee: VALIANI SRL

Assignee(s): (std): VALIANI CO LTD ; VALIANI FRANCO ; VALIANI S R L ; VALIANI SRL

Assignee(s): VALIANI CO ; VALIANI S R L CERTALDO

Inventor(s): (std): VALIANI FRANCO

Inventor(s): FRANCO VALIANI ; FRANCOVALIANI

Agent(s): TURINI LAURA; THEMIS LAW

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

158) Family number: 6385461 (US4741234A)

Title: COMPACT KNIFE UNIT FOR SLITTING A WEB

Abstract: A slim knife unit includes a guide member having an L-shaped body which supports an elongated fluid actuator comprising a piston connected by piston rods to a base member having a sliding track connection to a removable knife holder. The knife holder has spaced walls defining a slot which receives a circular knife supported by a bearing mounted on a spacer bushing clamped between the walls by a center support screw. The guide member has a linear track which cooperates with the rods to guide the knife holder, and a releasable latch secures the knife holder to the base member. The guide member also has a linear track which guides a clamp member movable by a screw for securing the knife unit to a support bar.

Classifications:
International (IPC 8-9): B26D5/04 B26D7/10 B26D7/26 (Advanced/Invention); B26D5/02 B26D7/08 B26D7/26 (Core/Invention)
International (IPC 1-7): B23D19/00 B26D1/14 B26D7/26
CPC: Y10T83/7747 Y10T83/7751 Y10T83/7809 Y10T83/7851 Y10T83/7872 Y10T83/8748 Y10T83/9464 B26D7/2621 B26D5/04 B26D7/10
European: B26D5/04 B26D7/10 B26D7/26B2
US: 83/481 83/482 83/495 83/505 83/508.2 83/563 83/698 83/698.41

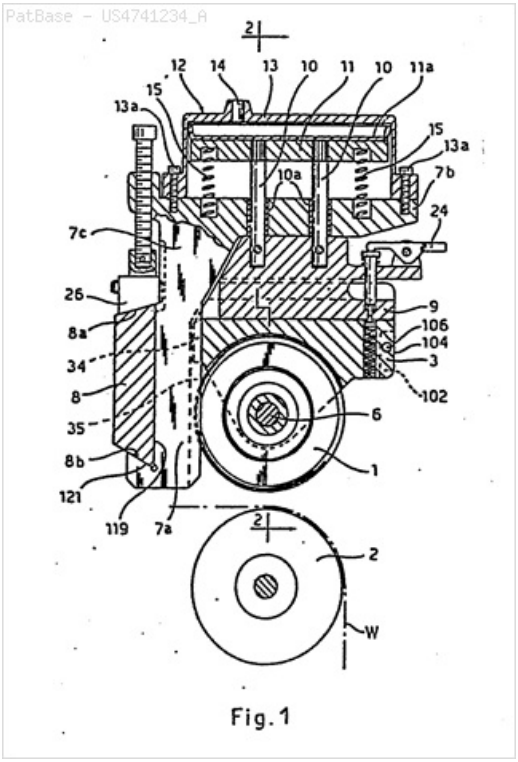


Fig.1

Family:

Publication number	Publication date	Application number	Application date
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EP0208262 A3	19890201	EP19860109068	19860703
IT1185210 A	19871104	IT19850021490	19850709
IT8521490 A0	19850709	IT19850021490	19850709
US4741234 A	19880503	US19850812767	19851223

Priority:
IT19850021490 19850709

Probable Assignee: MARIO COTTA ENGINEERING SRL

Assignee(s): (std): COLOMBO ANTONIO P ; COLOMBO ANTONIO PAOLO

Assignee(s): MARIO COTTA ENGINEERING SRL ; MARIO COTTA ENGINEERING SRL VIALE FILIPPETTI N

Inventor(s): (std): COLOMBO ANTONIO P ; COLOMBO ANTONIO PAOLO

Inventor(s): ANTONIO PAOLO COLOMBO

Designated states: AT BE CH DE FR GB LI LU NL SE

159) Family number: 42441466 (US2010140473A)

Title: NANOROBOT MODULE, AUTOMATION AND EXCHANGE

Abstract: A nanorobot module with a measurement device for the measurement of spatial surface properties with a measurement range in the centimetre range and a resolution in the nanometre range, that can be arranged in a vacuum chamber, for example the vacuum chamber of a microscope. Along with this integration of the nanorobot module into a vacuum chamber, the disclosure further relates to the automation of the module in the chamber system, in particular the connection of the controller of the nanorobot system and the chamber system by the provision of an interface between both systems. Finally, the disclosure relates to a mechatronic exchange adapter for the flexible securing of nanorobot modules within a vacuum chamber, in particular the disclosure relates to an exchange adapter, which preferably in one process

electrically connects a nanorobot module and mechanically secures it so that it is guided with high precision and without play.

Classifications:

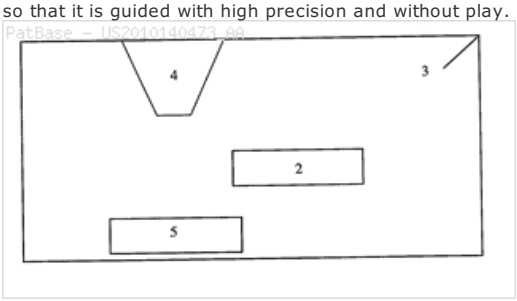
International (IPC 8-9): B21J19/00 B25J13/00 B25J15/00 B25J19/00 B25J9/16 B82B1/00 G01B21/00 G01B21/04 G01B21/20 G01B21/30 G01B5/28 G01Q10/02 G01Q10/04 G01Q30/04 G01Q30/08 G01Q30/16 G01Q30/20 G01Q70/00 G01Q70/02 H01J37/26 (Advanced/Invention);
B21J19/00 B25J13/00 B25J15/00 B25J19/00 B25J9/16 B82B1/00 G01B21/00 G01B21/02 G01B21/20 G01B21/30 G01B5/28 G01Q10/00 G01Q30/00 G01Q70/00 H01J37/26 (Core/Invention)

International (IPC 1-7): G01N13/10 G12B21/22

CPC: B25J7/00 H01R13/629 B25J21/00 G01Q10/02 G01B21/04 G01Q10/04 G01Q30/04 G01Q30/16 G01Q30/20 H01J37/20 H01J2237/202 H01J2237/2025 H01J2237/20264 H01J2237/20278 H01J2237/20292 H01J2237/204 H01J2237/28

European: B25J21/00 B25J7/00 B82Y35/00 G01B21/04 G01Q10/02 G01Q10/04 G01Q30/04 G01Q30/16 G01Q30/20 H01J37/20 T01J237/202 T01J237/202F T01J237/202H T01J237/202M T01J237/202R T01J237/204 T01J237/28 T01R13/629

US: 250/309 250/309P 250/311 250/311S 73/105 73/105S 850/52 850/52S 977/953 977/953S



Family:

Publication number	Publication date	Application number	Application date
DE102007035761 A1	20090129	DE200710035761	20070727
DE102007035950 A1	20081106	DE200710035950	20070730
DE102007036019 A1	20090205	DE200710036019	20070730
DE112008001080 A5	20100128	DE200811001080T	20080424
EP2140226 A2	20100106	EP20080757972	20080424
KR20100021413 A	20100224	KR20097023806	20080424
US2010140473 AA	20100610	US20080596707	20080424
WO08128532 A2	20081030	WO2008DE000699	20080424
WO08128532 A3	20090205	WO2008DE000699	20080424

Priority:

DE200710019623 20070424 DE200710022045 20070508 DE200710035761 20070727
DE200710035950 20070730 DE200710036019 20070730 WO2008DE000699 20080424

Probable Assignee: KLOCKE NANOTECHNIK

Assignee(s): (std): KLOCKE NANOTECHNIK ; KLOCKE VOLKER

Inventor(s): (std): KLOCKE VOLKER

Agent(s): CASTELL KLAUS; OHLANDT GREELEY RUGGIERO AND PERLE LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

160) Family number: 70342468 (US2018185049A)

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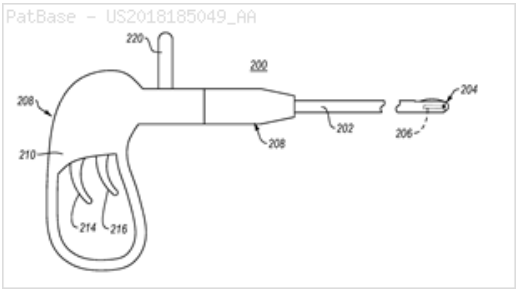
Title: APPARATUS WITH DEPLOYABLE PROBE AND BLADE AND METHODS OF USE

Abstract: The present application discloses apparatuses with deployable probes and blades and exemplary methods of use. In one or more embodiments of the present disclosure, an exemplary handheld apparatus for probing and cutting is provided. Such an exemplary handheld apparatus includes an elongate member having a probe and a blade associated with a first end thereof. The probe comprises a target interaction surface and is selectively movable between a retracted state and a target acquisition state. The blade comprises a cutting edge and is selectively movable between a retracted position and an extended position. The handheld apparatus may additionally include a handle associated with the second end of the elongate member that is operably connected to the probe and the blade. In some embodiments, the disclosed handheld apparatus is sized and shaped for use in endoscopic surgeries.

Classifications:

International (IPC 8-9): A61B1/313 A61B17/00 A61B17/295 A61B17/32 A61B5/00 B26B27/00 (Advanced/Invention)

CPC: A61B17/320036 B26B27/00 A61B1/313 A61B2017/32004 A61B17/320016 A61B17/00



Family:

Publication number	Publication date	Application number	Application date
US2018185049 AA	20180705	US20170399425	20170105
WO18129167 A1	20180712	WO2018US12354	20180104

Priority:

US20170399425 20170105 US20170506924P 20170516

Probable Assignee: GOWSKI WILLIAM F

Assignee(s): (std): GOWSKI WILLIAM F

Inventor(s): (std): GOWSKI WILLIAM ; GOWSKI WILLIAM F

Agent(s): PHILLIPS ROBYN L ET AL

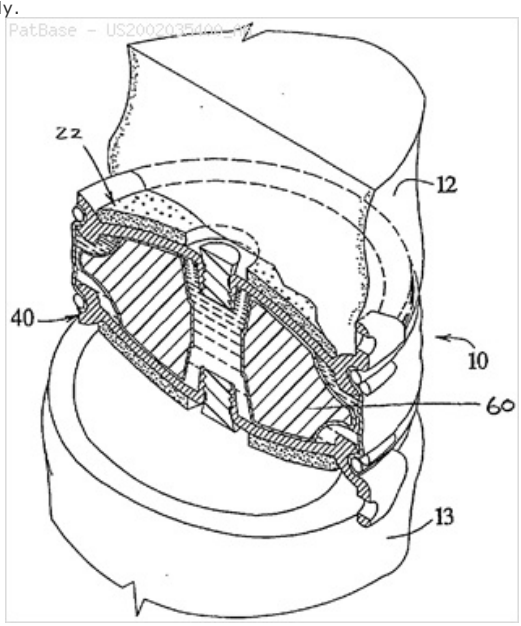
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC

161) Family number: 28292471 (US2002035400A)

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Title: IMPLANTABLE JOINT PROSTHESIS

Abstract: The invention relates to a surgical implant that provides an artificial diarthroidal-like joint, suitable for use in replacing any joint, but particularly suitable for use as an intervertebral disc endoprosthesis. The invention contains two rigid opposing shells, each having an outer surface adapted to engage the surfaces of the bones of a joint in such a way that the shells are immobilized by friction between their outer surfaces and the surfaces of the bone. These outer surfaces are sufficiently rough that large frictional forces strongly resist any slippage between the outer surface and the bone surfaces in the joint. They may be convex, and when inserted into a milled concavity, are immediately mechanically stable. Desirably, the outer surfaces of the shells are adapted to allow for bony ingrowth, which further stabilizes the shells in place. The inner surfaces of the shells are relatively smooth, and adapted to slide easily across a portion of the outer surface of a central body disposed between the shells. The central body has a shape that cooperates with the shape of the inner surface of the shell so as to provide a range of motion similar to that provided by a healthy joint. A flexible sheath extends between edges of the opposing shells. The inner surface of this sheath, together with the inner surfaces of the rigid shells, defines a cavity encasing the central body. At least a portion of this cavity is filled with a fluid lubricant, further decreasing the frictional force between inner surfaces of the shell and the surface of the central body.



Classifications:
International (IPC 8-9): A61B1/32 A61B17/00 A61B17/02 A61B17/16 A61B17/17 A61B17/56 A61B17/66 A61B17/88 A61B19/00 A61B19/02 A61B5/055 A61B5/107 A61B6/04 A61B8/13 A61F2/00 A61F2/28 A61F2/30 A61F2/44 A61F2/46 B25B13/00 B25B5/00 F16M13/02 G01B5/18 G01B9/10 (Advanced/Invention); A61B17/00 A61B17/32 A61B17/88 A61B19/00 A61F2/00 A61F2/28 A61F2/30 A61F2/46 B25G3/36 (Advanced/Non-invention); A61B17/02 A61B17/16 A61B19/00 A61F2/00 A61F2/28 A61F2/30 A61F2/44 A61F2/46 (Core/Invention); A61B19/00 A61F2/00 A61F2/30 A61F2/46 (Core/Non-invention)
International (IPC 1-7): A61B1/32 A61B17/00 A61B17/02 A61B17/14 A61B17/16 A61B17/32 A61B17/56 A61B17/66 A61B17/88 A61B19/00 A61B5/055 A61B5/107 A61B6/04 A61B8/13 A61F2/44 B25B13/00 B25B5/00 G01B5/18 G01B9/10
CPC: A61B17/1664 A61B17/1675 A61B17/1684 A61F2310/00407 Y10T403/7141 F16M11/046 F16M11/2092 A61B90/10 A61B90/50 A61B2090/034 A61B50/20 A61B90/57 F16M13/022 A61F2002/30365 A61F2002/3037 A61F2002/30433 A61F2002/30571 A61F2220/0033 A61F2220/0041 A61F2310/00179 A61F2310/00796 A61F2002/30662 A61B17/02 A61B17/162 A61B17/1624 A61B17/1659 A61B17/1671 A61B17/1757 A61B2017/00867 A61B2017/0256 A61B2017/1602 A61B17/0293 A61B17/8866 A61F2/30742 A61F2/30744 A61F2/442 A61F2/4425 A61F2/4611 A61F2002/30204 A61F2002/30235 A61F2002/30474 A61F2002/30499 A61F2002/30528 A61F2002/30563 A61F2002/30578 A61F2002/30616 A61F2002/30673 A61F2002/30682 A61F2002/30769 A61F2002/30772 A61F2002/443 A61F2220/0025 A61F2230/0065 A61F2230/0069 A61F2310/00017 A61F2310/00023 A61F2310/00029 A61F2310/00203 A61F2310/00239
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Family:

Publication number	Publication date	Application number	Application date
AT356583 E	20070415	AT20020761425T	20020820
AT443485 E	20091015	AT20010963832T	20010807
AU2001281166 AA	20020218	AU20010281166	20010807
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AU2002326694 AA	20030310	AU20020326694	20020820
AU2002326694 BB	20070705	AU20020326694	20020820
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EP1307153 A2	20030507	EP20010963832	20010807
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EP1420703 A1	20040526	EP20020761425	20020820
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EP2301447 A2	20110330	EP20100179919	20010807
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US2002035400 AA	20020321	US20010783910	20010213
US2002111631 AA	20020815	US20010934507	20010822
US2002128715 AA	20020912	US20010924298	20010808
US2002161446 AA	20021031	US20010923891	20010807
US2003199738 AA	20031023	US20030383968	20030307
US2004054411 AA	20040318	US20030600052	20030620
US2005038515 AA	20050217	US20040938043	20040910
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US2010070042 AA	20100318	US20090624160	20091123
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US7125380 BB	20061024	US20030383968	20030307
US7179262 BB	20070220	US20030727808	20031204
US7537612 BB	20090526	US20040938043	20040910
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US8092542 BB	20120110	US20090624160	20091123
WO0211633 A2	20020214	WO2001US24793	20010807
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WO0211650 A3	20030925	WO2001US24791	20010807
WO03017853 A1	20030306	WO2002US26356	20020820
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Priority:

US20000223863P	20000808	US20010265218P	20010131	US20010783910	20010213
US20010783860	20010213	EP20010959631	20010807	US20010923891	20010807
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US20030600052	20030620	US20030727808	20031204	US20040938043	20040910
US20090624160	20091123	US20110204187	20110805		

Probable Assignee: WARSAW ORTHOPEDIC INC

Assignee(s): (std): BROWMAN RICHARD J ; BROWMAN RICK ; BRYAN VINCENT ; CLARK CHARLES R ; KUNZLER ALEX ; GIL CARLOS E ; FINAZZO ANTHONY ; ROULEAU JEFFREY P ; CONTA BOB ; FINAZZO TONY ; GIL CARLOS ; MARSHALL ELLIOTT ; CONTA ROBERT ; ROULEAU JEFF ; SPINAL DYNAMICS CORP ; TOKISH LEONARD ; TOKISH LEN ; YAGER DAVE ; SDGI HOLDINGS INC D B A MEDTRO ; SDGI HOLDINGS INC ; TOKISH LENONARD JR ; YAGER DAVID J ; WARSAW ORTHOPEDIC INC ; ALLARD RANDY

Assignee(s): BROMAN RICHARD J ; SDGI HOLDINGS INC D B A MEDTRONIC SOFAMOR DANEK I ; SDGI HOLDINGS INC D B A MEDTRONIC SOFAMOR DANEK INC ; TOKISH LEONARD JR ; YAGER DAVID ; MEDTRONIC SOFAMOR DANEK INC ; CONTA BOBERT

Inventor(s): (std): BROMAN RICHARD ; BROMAN RICHARD J ; BROWMAN RICHARD J ; BROWMAN RICK ; BRYAN VINCENT ; CLARK CHARLES R ; CONTA BOB ; CONTA BOBERT ; CONTA ROBERT ; EDFAST JEFF ; FINAZZO ANTHONY ; FINAZZO TONY ; GIL CARLOS ; GIL CARLOS E ; ALLARD RANDY ; KELLY AARON ; KUNZLER ALEX ; MARSHALL ELLIOTT ; ROULEAU JEFF ; ROULEAU JEFFREY ; ROULEAU JEFFREY P ; TOKISH JR LEONARD ; TOKISH LEN ; TOKISH LENONARD JR ; TOKISH LEONARD ; TOKISH LEONARD JR ; YAGAR DAVID ; YAGER DAVE ; YAGER DAVID ; YAGER DAVID J

Inventor(s): TONY FINAZZO ; VINCENT BRYAN ; TOKISH ; RANDY ALLARD ; RICK BROWMAN ; ROBERT CONTA ; LEN TOKISH ; BOB CONTA ; JEFF ROULEAU ; JR LEONARD ; ELLIOTT MARSHALL ; CARLOS GIL ; ALEX KUNZLER

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; FROST ALEX JOHN; KOBAYASHI YASUSHI; CHIBA AKIO; SAKUMA SHIGERU; MASUI CHUJI; KANDA FUJIHIRO; ONO SHINJIRO; HASHIMOTO MASAO; TAKEUCHI SHIGEO; SHAMOTO ICHIO; TOMITA HIROYUKI; UCHIDA HIROSHI; ITO TAKAMI; HAYNES AND BOONE LLP; MEDTRONIC,ATTN: NOREEN JOHNSON - IP LEGAL DEPARTMENT; MEDTRONIC ATTN NOREEN JOHNSON IP LEGAL DEPARTMENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

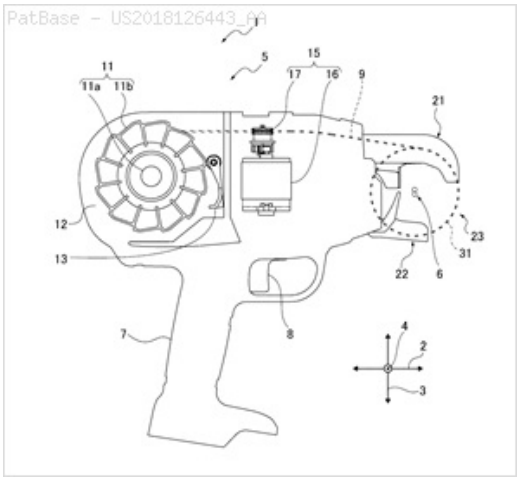
162) Family number: 69658471 (US2018126443A)

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Title: BINDING MACHINE AND AUXILIARY MEMBER FOR BINDING MACHINE

Abstract: A binding machine includes a curl guide configured to guide a wire in a loop shape around a binding target and a twisting part configured to bind the binding target by twisting the wire guided in the loop shape around the binding target. The curl guide has a tapered protrusion at a tip end-side.

Classifications:
International (IPC 8-9): B21F15/04 B21F7/00 B25B25/00 B25B28/00 B25B33/00 B65B13/02 B65B13/18 B65B13/28 B65B27/00 B65B27/06 E04G21/12 (Advanced/Invention); E04G21/12 (Advanced/Non-invention)
CPC: B21F15/04 B65B13/025 E04G21/122 E04G21/123 B65B27/06 B65B13/18



Family:

Publication number	Publication date	Application number	Application date
AU2017258914 AA	20180524	AU20170258914	20171109
CA2985132 AA	20180510	CA20172985132	20171108
CN108069067 A	20180525	CN201711108475	20171109
EP3321450 A1	20180516	EP20170200825	20171109
JP2018076106 A2	20180517	JP20160219784	20161110
US2018126443 AA	20180510	US20170807787	20171109

Priority:

JP20160219784 20161110

Probable Assignee: MAX CO LTD

Assignee(s): (std)**:** MAX CO LTD

Assignee(s): MAX KK ; MORIJIRI TAKESHI ; BAN TAKANORI ; MAX CO

Inventor(s): (std)**:** BAN TAKANORI ; MORIJIRI TAKESHI ; MORIJIRI TSUYOSHI ; TAKANORI BAN ; TAKESHI MORIJIRI

Agent(s): GRIFFITH HACK; RICHES MCKENZIE AND HERBERT LLP; SAMSON AND PARTNER PATENTANWAELTE MBB; CREO LAW AND IP LPC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

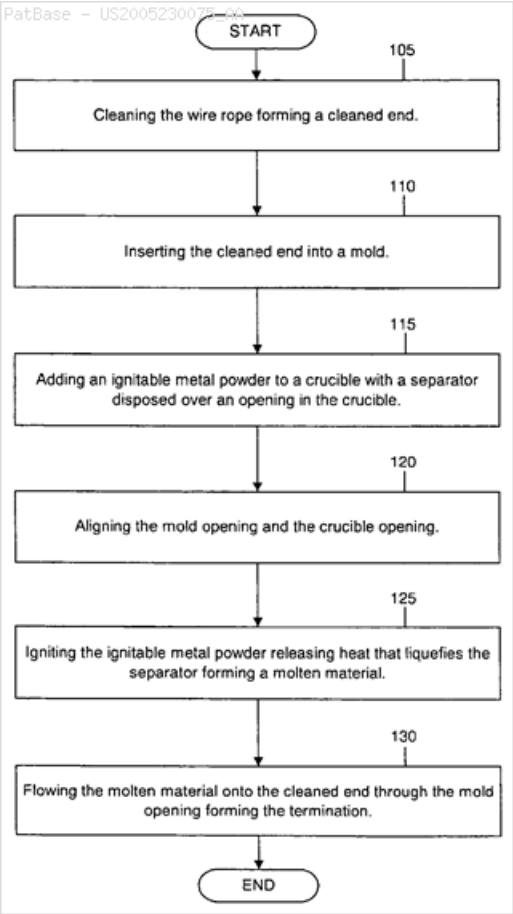
163) Family number: 32318472 (US2005230075A)

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Title: METHOD FOR MAKING A TERMINATION FOR A WIRE ROPE FOR MINING EQUIPMENT

Abstract: The method for making a termination for a wire rope entails inserting a first end of the wire rope end into a mold, wherein the mold comprises a mold opening; placing a crucible on the mold, adding a separator to the crucible over an opening in the crucible, adding an exothermic metallic material to a crucible, igniting the exothermic metallic material to form a molten material that liquefies the separator; flowing the liquefied separator onto the end of the wire rope forming a termination capable of sustaining a higher break force than the wire rope. Other embodiments of the method entail using a liquid adhesive to form the termination.

Classifications:
International (IPC 8-9): B22D19/00 B23K23/00 B25G3/34 B29B13/00 (Advanced/Invention);
B22D19/00 B23K23/00 B29B13/00 (Core/Invention)
International (IPC 1-7): B22D19/00 B23K23/00
CPC: B22D19/04 E21C47/00 F16G11/042 F16G11/048 B23K2101/32 B22D19/00 B23K23/00
European: B22D19/00 B22D19/04 B23K23/00 E21C47/00 F16G11/04 L23K201/32
US: 164/54 164/54P 228/234.3 228/234.300S 249/86 249/86S 264/259 264/271.1



Family:

Publication number	Publication date	Application number	Application date
AU2004325245 AA	20060608	AU20040325245	20041228
US2005230075 AA	20051020	US20040825658	20040414
US2005230076 AA	20051020	US20040016940	20041202
US2007119562 AA	20070531	US20060472605	20060622
US7231956 BB	20070619	US20040825658	20040414
US7231957 BB	20070619	US20040016940	20041202
WO06060023 A1	20060608	WO2004US43939	20041228

Priority:

US20040825658 20040414 US20040016940 20041202 WO2004US43939 20041228
US20060472605 20060622

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Inventor(s): (std): GREGORY GEORGE R ; GREGORY GEORGE ROBERT ; LOVE III ROBERT MCCLURE ; LOVE ROBERT ; LOVE ROBERT M III ; MCCLURE LOVE ROBERT III

Inventor(s): LOVE ROBERT MCCLURE ; LOVE ROBERT MIII ; LOVE ROBERT III MCCLURE ; GEORGE ROBERT GREGORY ; GREGORY GEORGE ; III ROBERT MCCLURE ; LOVE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; LESLIE W MILNE; SCHULTZ AND ASSOCIATES PC; GEORGE R SCHULTZ SCHULTZ AND ASSOCIATES PC; SCHULTZ AND ASSOCIATES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

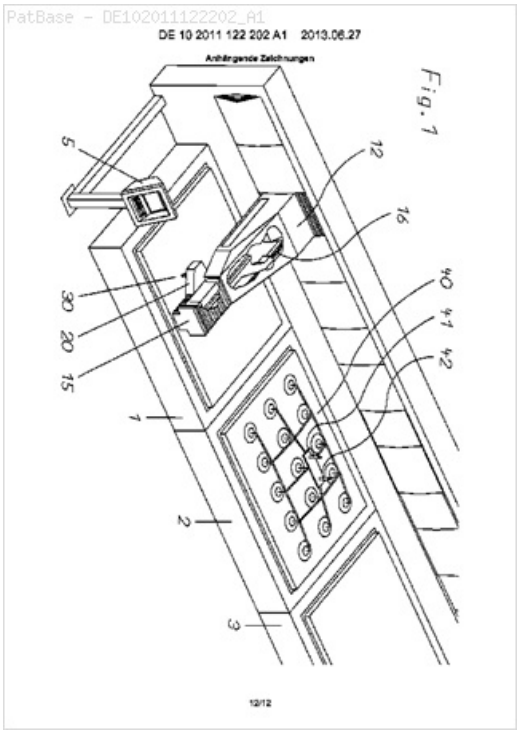
164) Family number: 54154481 (DE102011122202A1)

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Title: MOVING DEVICE FOR TRANSLATORY MOVEMENT OF LENGTH-VARIABLE BEAM OF LASER CUTTING MACHINE, HAS AUXILIARY AXLE UNIT, WHERE ELEMENTS OF BEAMS ARE DISPLACEABLE TOWARDS EACH OTHER SUCH THAT AXLE UNIT IS TRANSLATIVELY MOVABLE AT LAST ELEMENT

Abstract: The device has an end effector (30) movable with relatively high acceleration over short distances, directly or by an auxiliary axle unit (20). The axle unit is movable with relative reduced acceleration over working areas (1-3) of a machine tool along length-variable beams (12, 15) of the tool. Each beam has elements displaceable towards each other such that the first element is movable as a base axle, and the axle unit is translatively movable at the last element in direction of movability of the elements. An independent claim is also included for a method for translatory movement of a length-variable beam of a machine tool.

Classifications:
International (IPC 8-9): B23Q1/25 B23Q1/70 B25J9/02
G01B21/04 (Advanced/Invention)
CPC: B25J9/023 B23Q2240/002 B23Q1/621



Family:

Publication number	Publication date	Application number	Application date
DE102011122202 A1	20130627	DE201110122202	20111223

Priority:

DE201110122202 20111223

Probable Assignee: EHLERDING ANDREAS

Assignee(s): (std)**:** EHLERDING ANDREAS

Inventor(s): (std)**:** EHLERDING ANDREAS

165) Family number: 41668485 (US2007045379A)

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Title: STAPLE CARTRIDGES FOR FORMING STAPLES HAVING DIFFERING FORMED STAPLE HEIGHTS

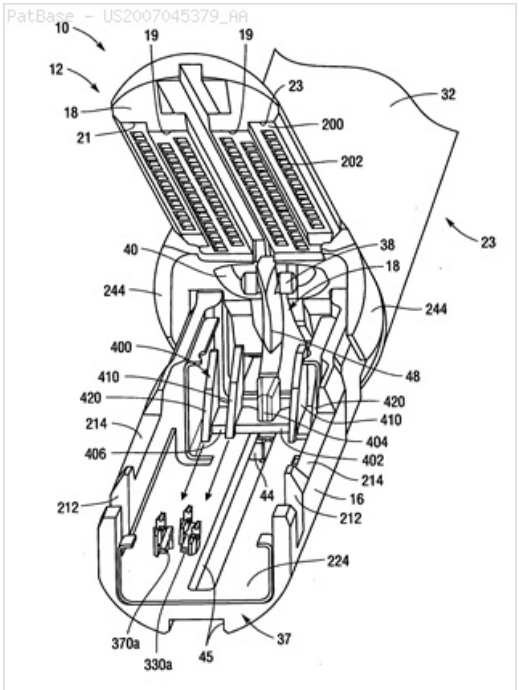
Abstract: A staple cartridge for use with a stapling device that has an actuator that is selectively actuatable in an axial direction and an anvil portion that is selectively movable between open and closed positions is disclosed. Various embodiments of the present invention include a cartridge body that movably supports first and second staple drivers. The staple drivers each support a staple thereon and serve to drive the staples into forming contact with the anvil upon actuation by the actuator. The various embodiments of the present invention enable the final formed heights of the staples to be varied without the need to use different sizes of staples.

Classifications:

International (IPC 8-9): A61B A61B17/00 A61B17/03 A61B17/04 A61B17/064 A61B17/068 A61B17/072 A61B17/08 A61B17/10 A61B17/11 A61B17/115 A61B17/12 A61B17/135 A61B17/138 A61B17/32 A61B17/3201 A61B17/3205 A61B17/94 A61B19/00 A61B34/00 A61B34/30 A61F5/00 B21D53/46 B21G7/02 B25C B25C5/02 B25C5/04 F16B15/00 (Advanced/Invention); A61B17/00 A61B17/064 A61B17/068 A61B17/11 A61B17/115 A61B17/29 A61B17/32 A61B17/3205 A61B19/00 A61B19/02 A61B50/30 A61B50/36 A61B90/00 A61F5/00 B25C5/02 B25C5/04 (Advanced/Non-invention); A61B17/00 A61B17/03 A61B17/04 A61B17/064 A61B17/068 A61B17/12 A61B17/32 A61B17/94 A61F5/00 B25C5/00 (Core/Invention)

International (IPC 1-7): A61B17/064 A61B17/072 A61B17/10 B25C5/04

CPC: Y10S227/902 A61B17/34 A61B90/03 A61B2017/00128 A61B2017/00539 A61B2017/00862 A61B2017/07285 A61B2017/2932 A61B2018/00666 A61B2090/032 A61B2090/036 A61B2090/065 A61B2017/07271 A61B2017/2943 A61B17/1114 A61B2017/00526 A61B2017/00818 A61B2017/00893 A61B2017/07228 A61B2017/2905 A61B2017/2927 A61B17/320068 A61B2017/00115 A61B2017/00199 A61B2017/00327 A61B2017/00473 A61B2017/00477 A61B2017/00685 A61B2017/00734 A61B2017/0688 A61B2017/00004 A61B2017/0641 A61B2017/0725 A61B17/135 A61B2017/00898 A61B2017/0023 A61B2017/00371 A61B17/064 A61B2090/034 A61B17/0682 A61B17/32 A61B17/320092 A61B34/30 A61B34/70 A61B34/71 A61B50/30 A61B50/36 A61B2017/0046 A61B2017/2903 A61B2090/0811 F04C2270/041 A61B2017/00831 A61B17/07207 A61B17/0644 A61B17/32053 A61B2017/07214 A61B2017/07235 A61B2017/07242 A61B2017/07278 A61B2017/2923 A61B2017/320052 B25C5/0292 A61B17/07292 A61B17/115 A61B2017/00398 A61B17/072 A61B17/0643 A61B17/1155 A61B90/39 A61B2017/07264 A61B2090/037 A61F5/0086 A61B2017/00929 A61B17/068 A61B17/105



European: A61B17/064 A61B17/064C A61B17/064D A61B17/068 A61B17/072B A61B17/072R A61B17/115 A61B17/11D A61B17/135 A61B17/32U A61B19/22B B25C5/02G2 K61B17/00A K61B17/00C2 K61B17/00C5 K61B17/00D

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Family:

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Priority:

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

166) Family number: 47449487 (US2010269655A)

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Title: MITER SAW WITH CUTTING ALIGNMENT DEVICE ON A DUST CHUTE

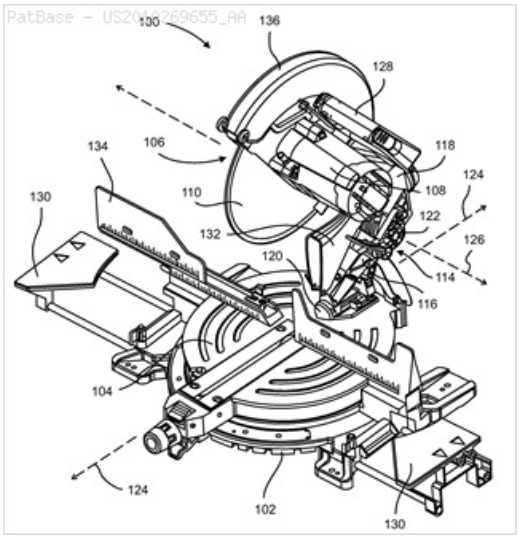
Abstract: A miter saw with a cutting alignment device includes a base with a work surface provided thereon. A bevel support is pivotable with respect to the base and a cutting blade is supported by the bevel support. A dust chute is adjustably secured to the bevel support and pivots with respect to the base when the bevel support pivots. The dust chute includes mounts that allow lateral adjustment of the dust chute with respect to the bevel support. A laser alignment device is positioned on the dust chute and configured to emit a beam of light toward the work surface. The dust chute includes a receptacle designed and dimensioned to releasably hold the laser alignment device. Because the laser alignment device is retained on the dust chute, adjustment of the dust chute also results in adjustment of a beam of light emitted from the laser alignment device.

Classifications:

International (IPC 8-9): B23D45/04 B23D45/14 B23D47/02 B23D59/00 B23Q11/00 B26D1/16 B26D7/18 B26D7/27 B27B5/00 B27B5/29 B27B5/36 B27G19/04 B27G3/00 (Advanced/Invention); B27B5/29 B27G3/00 (Core/Non-invention)

CPC: B26D7/18 B23Q11/0042 Y10T83/207 Y10T83/2174

Y10T83/2216 Y10T83/7693 Y10T83/7697 Y10T83/0577 Y10T83/202 Y10T83/828 Y10T83/853 Y10T83/856 B23D59/006 B23D45/044 B23D47/02 B23D47/025 B23D59/003 B27B5/29
European: B23D45/04A1 B23D47/02 B23D47/02B B23D59/00B1A B23D59/00C B27B5/29
US: 83/100 83/100P 83/147 83/147S 83/165 83/165P 83/165S 83/471.2 83/471.200S 83/471.3 83/471.300S 83/50 83/520 83/522.15 83/522.150S 83/522.17 83/78



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20090431538 20090428 US20100684728 20100108 US20120624783 20120921 US20130915402 20130611

Probable Assignee: ROBERT BOSCH TOOL CORP

Assignee(s): (std): BOSCH GMBH ROBERT ; BOSCH TOOL CORP ; COX MATTHEW D ; CREDO TECH CORP ; LAWLOR MICHAEL J ; PIERGA WOJCIECH T

Assignee(s): CREDO TECHNOLOGY CORP ; ROBERT BOSCH GMBH ; ROBERT BOSCH TOOL CORP

Inventor(s): (std): COX MATTHEW D ; LAWLOR MICHAEL J ; PIERGA WOJCIECH T

Agent(s): MAGINOT MOORE AND BECK LLP CHASE TOWER; MAGINOT MOORE AND BECK

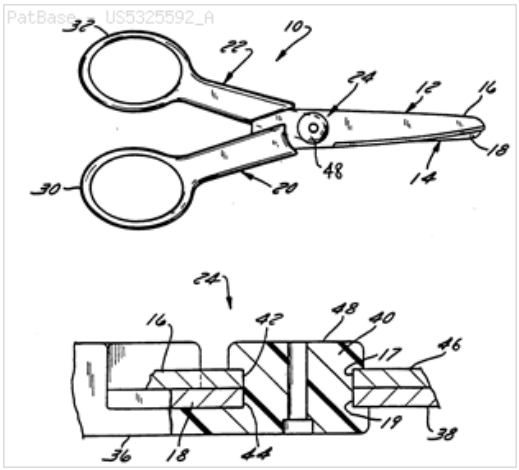
167) Family number: 29237488 (US5325592A)

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Title: PIVOTED TOOL HAVING INTEGRAL PIVOT MEMBER AND METHOD OF PRODUCING SAME

Abstract: The present invention relates to pivoted tools such as scissors, pliers, pruners, and the like. More particularly, this invention is concerned with tools having a force applying end with formed handles, and opposed working ends disposed across a pivotable joint. In these tools, the pivotable joint, which is formed concurrently with the handles, is an integral part of one of the handles.

Classifications:
International (IPC 8-9): A01G3/02 A01G3/025 A01G3/033 A01G3/04 B23P15/00 B23P15/40 B25B7/00 B25B7/06 B25B7/08 B25B7/12 B25G3/38 B26B13/00 B26B13/08 B26B13/12 B26B13/16 B26B13/20 B26B13/28 B26B17/02 B29C45/14 B29C70/74 B29C70/76 B29C70/84 F16K1/14 F16K15/02 F16K15/04 F16K15/18 F16K17/04 F16K21/02 (Advanced/Invention);
A01G3/00 A01G3/02 B23P15/00 B25B7/00 B26B13/00 B26B17/02 B60T8/48 (Advanced/Non-invention);
F16K1/00 F16K15/00 F16K15/02 F16K17/04 F16K21/00 (Core/Invention);
A01G3/02 (Core/Non-invention)
International (IPC 1-7): A01G13/02 A01G3/00 A01G3/02 A01G3/025 A01G3/033 A01G3/04 A01G3/08 B21K11/06 B23P11/00 B23P15/00 B23P15/40 B25B7/00 B25B7/06 B25B7/12 B25G3/38 B26B13/00 B26B13/02 B26B13/06 B26B13/08 B26B13/12 B26B13/16 B26B13/20 B26B13/22 B26B13/26 B26B13/28 B26B17/00 B26B17/02 B29C33/14 B29C43/18 B29C45/14 B29C65/70 B29C67/18 B29C70/78 B29D31/00 B60T8/48 F16B17/00
CPC: B26B13/005 A01G2003/023 B26B17/02 A01G3/0251 Y10T29/4984 B29C45/14467 A01G3/02 B25B7/06 B25B7/08 B26B13/16 B26B13/28 B29C45/14754 B29C70/74 B29C70/76 B29C70/84 B29L2031/22 B29L2031/283 B29L2031/72



European: A01G3/02 A01G3/025 B25B7/06 B25B7/08 B26B13/00B B26B13/16 B26B13/28 B26B17/02 B29C45/14G B29C45/14P B29C70/74 B29C70/76 B29C70/84 K01G3/02G L29L31/22 L29L31/28B L29L31/72
US: 130/124 264/242 29/434 30/124 30/134 30/192 30/250 30/254 30/255 30/262 30/266 76/104.1 76/106.5

Family:

Publication number	Publication date	Application number	Application date
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TW414009 Y	20001201	TW19990215613U	19950610
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Priority:

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US19950472993 19950607 US19950484846 19950607 CA19952160862 19951018
CA19962176094 19960508 CA19962176095 19960508

Probable Assignee: FISKARS OY AB

Assignee(s): (std): FISKARS AB OY ; FISKARS CONSUMER AB OY ; FISKARS CONSUMER OY AB ; FISKARS OY AB ; LINDEN ERKKI O ; FISKARS CORP ; FISKARS OYJ ABP ; FISKARS INC

Assignee(s): LINDEN ERKKI OLAVI ; RONNHOLM KARL SVANTE ; HOLM CARL OLOF JOHAN ; FISKARS OY AB HELSINKI FI ; FISKARS CORP HELSINKI FI ; FISKARS OY MANNERHEIMINTIE AB ; FUISUKARUSU AB OY ; FISKARS CONSUMER OY ABFI

Inventor(s): (std): ERKKI O LINDEN ; ERKKI OLAVI LINDEN ; ERUTSUKI ORABUII RINDEN ; ERUTSUKII ORABUII RINDEN ; HOLM CARL OLOF J ; HOLM CARL OLOF JOHAN ; LINDEN ERKKI O ; LINDEN ERKKI OLAVI ; LINDUN ERKKI OLAVI ; OLAVI LINDEN ERKKI ; ROENNHOLM KARL S ; ROENNHOLM KARL SVANTE ; RONNHOLM KARL S ; RONNHOLM KARL SVANTE ; SVANTE RONNHOLM KARL ; KARL SVANTE RONNHOLM ; KARURU OROFU YOHAN HORUMU ; KARURU SUBUANTE RENHORUMU

Inventor(s): LIND AND E ACU E AND EE N ERKKI O ; KARURU SUANTE RENHORUMU ; Erikki O. Linden ; RONNHOLM KARL SVANTE SF 10300 KARIS FI ; ROENNHOLM KARL SVANTE SF 10300 KARIS FI ; LINDEN ERKKI OLAVI SF 10330 BILLNAS FI ; LINDEN ERKKI OLAVI SF 10330 BILLNAES FI ; LINDEN ERKKI OLAVI FIN 10330 BILLNAES FI ; CARL OLOF JOHAN HOLM ; HOLM CARL OLOF JOHAN SF 10640 DRAGSVIK FI ; ERUTSUKI ORAUII RINDEN

Agent(s): GRIFFITH HACK; SHAPIRO COHEN; AVENTUM IP LAW LLP

Designated states: BE DE DK FI FR GB IT LU NL SE

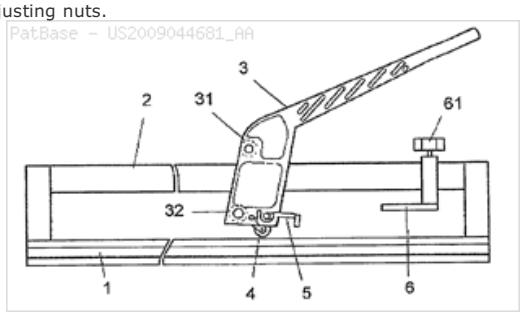
168) Family number: 38528490 (US2009044681A)

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Title: MANUAL CERAMICS CUTTER

Abstract: A cutter which includes a base, a longitudinal rail for the movable mounting of a handle carrying a blade or cutting tool, lateral folding arms and an orientable set square. The handle has rolling elements and an antifriction piece, for movement on the rail, a longitudinal guide for the interchangeable coupling of blade-holder pieces and a bolt for holding the blade-holder piece. The orientable set square is fixed at different angular positions by means of a bolt that is inserted in conical seats in a circular arrangement or by means of a vertical-thrust flange. The base comprises studs for the mounting of the folding arms with respective intermediate springs and tension-adjusting nuts.

Classifications:
International (IPC 8-9): B26B25/00 B26D3/08 B28D1/22 B28D1/24 B65D75/58 (Advanced/Invention);
B26D3/08 B28D1/22 B65D85/00 (Core/Invention);
B28D (Subclass/Invention)
International (IPC 1-7): B28D1/22
CPC: Y10T83/0385 B28D1/225
European: B28D1/22D
US: 83/886



Family:

Publication number	Publication date	Application number	Application date
AU2007231295 AA	20071004	AU20070231295	20070327
AU2007231295 BB	20110331	AU20070231295	20070327
BRPI0709423 A2	20110712	BR2007PI09423	20070327
CA2647585 AA	20080926	CA20072647585	20070327
CA2647585 C	20120103	CA20072647585	20070327

CN101454130 A	20090610	CN200780019678	20070327
EG25016 A	20110525	EG20080091618	20080928
EP2014431 A1	20090114	EP20070730405	20070327
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ES1062584 UA	20060701	ES20060000738U	20060327
ES1062584 Y	20061001	ES20060000738U	20060327
ES1062584 Y1	20061001	ES20060000738U	20060327
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IL194378 A1	20140331	IL20070194378	20070327
IN08403DN2008 A	20090501	IN2008DN08403	20081006
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KR20090007369 A	20090116	KR20087026192	20081027
MA30389 B1	20090504	MA20080031334	20081027
MX2008012232 A1	20081203	MX20080012232	20070327
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NZ572084 A	20110630	NZ20070572084	20070327
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RU2404051 C2	20101120	RU20080143291	20070327
SM200800055 A	20081022	SM20070000055	20070327
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SMP200800055 B	20081022	SM20080000055T	20070327
TNSN08376 A1	20091229	TN2008SN00376	20080925
US2009044681 AA	20090219	US20070294719	20070327
WO07110458 A1	20071004	WO2007ES00164	20070327
ZA200808442 A	20090826	ZA20080008442	20080101

Priority:

ES20060000738 20060327 ES20060000738U 20060327 WO2007ES00164 20070327

Probable Assignee: GERMANS BOADA SA

Assignee(s): (std)**:** BOADA GERMANS SA ; GERMANS BOADA SA ; TORRENTS I COMAS JOSEP

Assignee(s): GERMANS BOADA S A

Inventor(s): (std)**:** COMAS JOSEP TORRENTS I ; TORRENTS I KOMAS ZHOZEP ; TORRENTS I COMAS JOSEP ; COMAS JOSEPH TORRENTS I ; JOSEP TORRENTS I COMAS

Inventor(s): JOSEPH TORRENTS I COMAS

Agent(s): FB RICE PTY LTD; FB RICE; OSLER HOSKIN AND HARCOURT LLP; MALDONADO JORDAN JULIA; REINHOLD COHN AND PARTNERS; OSTROLENK FABER GERB AND SOFFEN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

169) Family number: 32650492 (US2002124967A)

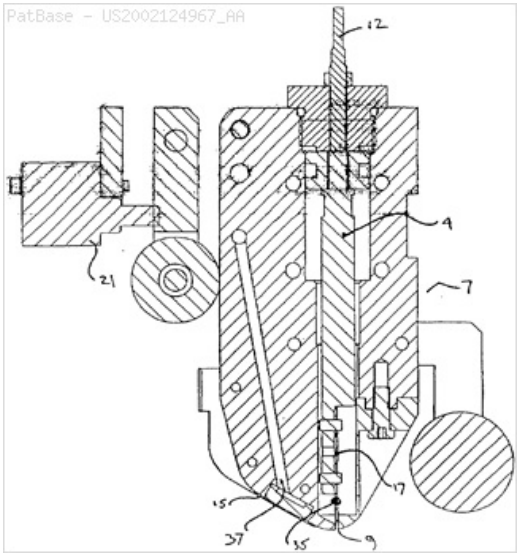
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Title: ROBOTIC TAPE APPLICATOR AND METHOD

Abstract: A method of fastening a first curved part to a second curved part comprises placing the second part into a specified orientation in relation to a robotically controlled tape applicator, applying two-sided adhesive tape along a non-linear path over the surface of the second part, and placing the first part into registry with the second part to adhere to the adhesive tape. A robotic tape applicator comprises a computer adapted to control a robotic arm, guide means, tensioning means and cutting means.

Classifications:

International (IPC 8-9): B29C65/00 B29C65/50 B31F1/00 B32B37/00 B32B41/00 B44C7/00 B44C7/04 B44C7/06 B44C7/08 B65C11/04 B65H26/00 B65H35/00 B65H37/04 E04D15/00 F16B11/00 (Advanced/Invention);
B29C65/00 (Advanced/Non-invention);
B29C65/50 B31F1/00 B32B37/00 B32B41/00 B44C7/00 B65C11/00 B65H26/00 B65H35/00 E04D15/00 (Core/Invention);
B29C65/00 (Core/Non-invention);
B25J (Subclass/Invention)
International (IPC 1-7): B25J B31B31/18 B31B31/20 B31F1/00 B32B31/00 B44C7/00 B44C7/04 B44C7/06 B44C7/08 B65C11/04 B65H26/00 B65H37/04 E04D15/00 F16B11/00 G01D1/00
CPC: B29C66/0242 B29C66/472 B29C66/863 B65H21/00 B65H2301/51432 B65H2301/531 Y10T156/1348 Y10T156/1744 Y10T156/1788 Y10T156/1795 Y10T156/1798 Y10T156/1052 Y10T156/1084 B65H2801/51 B65H35/0013 B65H2555/31
European: B65H35/00B1 L29C66/0242 L29C66/472 L29C66/863 L65H555/310 L65H801/51
US: 156/250 156/269 156/353 156/353S 156/361 156/378 156/496 156/496S 156/523 156/556 156/556S 156/574 156/577 156/577S 156/578 156/64 156/64S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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WO2004US39009 20041119 US20040991853 20041119 US20050203121 20050815
US20070700230 20070131

Probable Assignee: HENKEL IP AND HOLDING GMBH

Assignee(s): (std): HENKEL CORP ; TWO STAGE INNOVATION INC ; ORBSEAL LLC ; JORDAN DAN ; ORSCHELN ROBERT J ; MCMILLIN TED ; PANETTA RICHARD ; WRIGHT TYLER ; SHARP TERRANCE ; SHARP TERRANCE M ; CAMPBELL KEVIN M ; FRENDLE STEVE K ; YRYKU YLLI

Assignee(s): FRENDLE STEVEN K ; CARESTREAM HEALTH INC ; JORDAN DAN B ; HENKEL US IP LLC ; HENKEL IP AND HOLDING GMBH

Inventor(s): (std): PANETTA RICHARD ; SHARP TERRANCE ; SHARP TERRANCE M ; WRIGHT TYLER ; YRYKU YLLI ; ORSCHELN ROBERT J ; MCMILLIN TED ; JORDAN DAN B ; JORDAN DAN ; FRENDLE STEVEN K ; FRENDLE STEVE K ; CAMPBELL KEVIN M

Inventor(s): CAMPBELL KEVIN ; FRENDLE STEVEN ; ORSCHELN ROBERT

Agent(s): OGILVY RENAULT LLP SENCRL SRL; BORDEN LADNER GERVAIS LLP; KILPATRICK STOCKTON LLP; THOMAS A; HUNTON AND WILLIAMS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

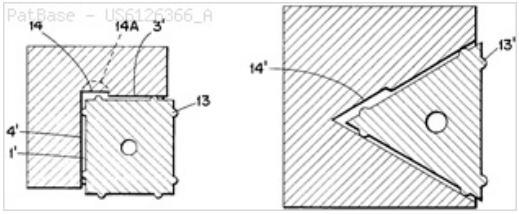
170) Family number: 10262492 (US6126366A)

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Title: CUTTING INSERT FOR CHIP-BREAKING MACHINING OF METALS

Abstract: PCT No. PCT/SE97/00116 Sec. 371 Date Jul. 20, 1998 Sec. 102(e) Date Jul. 20, 1998 PCT Filed Jan. 23, 1997 PCT Pub. No. WO97/27019 PCT Pub. Date Jul. 31, 1997An indexible cutting insert for chip-breaking metal machining comprises an upper surface or chip surface, a lower bottom surface which is substantially plane parallel to the upper surface, and at least a side surface extending between the surfaces, which forms an acute angle with the upper surface and an obtuse angle with the bottom surface. The side surface has at least two bulging portions which are intended to function as support surfaces against the support surfaces in an insert seat.

Classifications:
International (IPC 8-9): B23B27/16 B23C5/22 (Advanced/Invention); B23B27/16 B23C5/16 (Core/Invention)
International (IPC 1-7): B23B27/16 B23B29/12 B23C5/22 B26D1/00
CPC: Y10T407/2272 Y10T407/2274 Y10T407/23 Y10T407/28 B23B27/1622 B23B2200/0461 B23B2200/049 B23B2200/121 B23B2200/123 B23B2205/04 B23B2205/16
European: B23B27/16C4 L23B200/04G L23B200/04L L23B200/12A L23B200/12B L23B205/04 L23B205/16
US: 407/102 407/103 407/113 407/120



Family:

Publication number	Publication date	Application number	Application date
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WO9727019 A1	19970731	WO1997SE00116	19970123

Priority:

SE19960000266 19960125 WO1997SE00116 19970123

Probable Assignee: SANDVIK INTELLECTUAL PROPERTY AKTIEBOLAG

Assignee(s): (std): LUNDBLAD MIKAEL ; SANDVIK AB

Assignee(s): SANDVIK AB SANDVIKEN ; SANDVIK ABS ; SANDVIK AKTIEBOLAG ; SANDVIK INTELLECTUAL PROPERTY HB ; SANDVIK INTELLECTUAL PROPERTY AKTIEBOLAG

Inventor(s): (std): LUNDBLAD MIKAEL

Inventor(s): MIKAEL LUNDBLAD

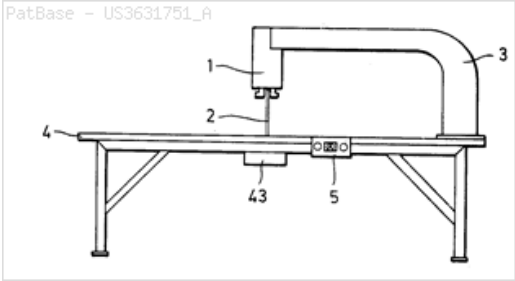
Designated states: AT BE CH DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE US

171) Family number: 389493 (US3631751A)

Title: CUTTING MACHINE FOR FABRICS AND THERMOPLASTICS

Abstract: A cutting machine has a reciprocally driven blade engaged by a guide unit at the free end of the blade. A blade-driving member is fixed above a cutting table on a projecting arm rigidly connected to the table and the guide unit is fixed beneath a plate on the table. Conversely the guide unit can be mounted on the supporting arm and the driving member beneath the plate on the table.

Classifications:
International (IPC 8-9): B26F1/38 (Advanced/Invention); B26F1/38 (Core/Invention)
International (IPC 1-7): B26D5/08 D06H7/00
CPC: Y10S83/938 B26F1/3833 Y10T83/293 Y10T83/8696 Y10T83/8736 Y10T83/8748 Y10T83/8876
European: B26F1/38A2F
US: 83/171 83/527 83/555 83/563 83/647 83/925CC 83/938



Family:

Publication number	Publication date	Application number	Application date
DE1960473 B1	19701119	DE19691960473	19691202
US3631751 A	19720104	US19700005189	19700123

Priority:
DE19691960473 19691202

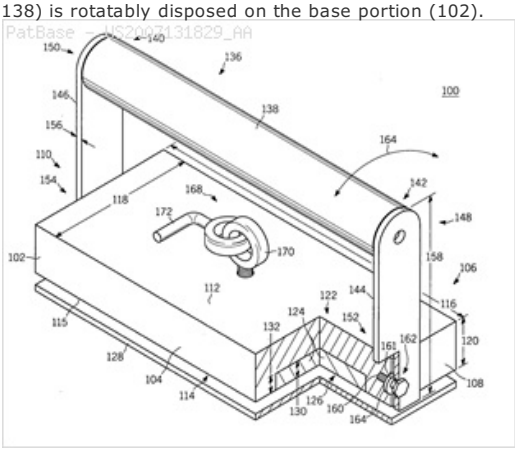
Probable Assignee: STUMPF GUENTER
Assignee(s): (std): STUMPF GUENTER
Assignee(s): GUNTER STUMPF
Inventor(s): (std): STUMPF GUNTER ; STUMPF GUENTER
Inventor(s): GUNTER STUMPF

172) Family number: 34550495 (US2007131829A)

Title: TEMPORARY AFFIXING DEVICE

Abstract: A temporary magnetic affixing device (100) is provided. The temporary affixing device (100) includes a base portion (102) having a first surface (114) and a second surface (112). The first surface (114) of the base portion (102) includes a magnetic device (124) attached thereto. A holding handle (138) is rotatably disposed on the base portion (102).

Classifications:
International (IPC 8-9): A47G1/17 B23P11/00 B25B11/00 F16M13/02 (Advanced/Invention); A47G1/16 (Core/Invention)
CPC: Y10T29/49998 B25B11/002 E04F21/185
European: B25B11/00B P04F21/18D2B
US: 248/206.5 248/206.500P 248/309.4 248/317 269/8 29/559



Family:

Publication number	Publication date	Application number	Application date
US2007131829 AA	20070614	US20050301392	20051213
US2013043363 AA	20130221	US20120657578	20121022
US8292242 BB	20121023	US20050301392	20051213

Priority:
US20050301392 20051213 US20120657578 20121022

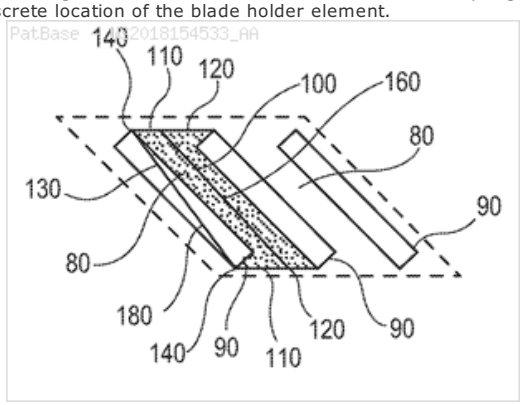
Probable Assignee: THOMPSON DANNY L
Assignee(s): (std): THOMPSON DANNY L
Inventor(s): (std): THOMPSON DANNY L
Inventor(s): THOMPSON DANNY
Agent(s): GARY F WITTING; GARY F

173) Family number: 69991499 (US2018154533A)

Title: FLEXIBLE CURVILINEAR KNIFE

Abstract: A flexible curvilinear knife is disclosed. The flexible curvilinear knife is formed from a cutting element, a blade holder element, and a plurality of spring elements. A first, proximal end of each spring element of the plurality of spring elements is operably and fixably attached to a discrete location of the cutting element and a second, distal end of each spring element of the plurality of spring elements is fixably attached to a discrete location of the blade holder element.

Classifications:
International (IPC 8-9): B26D1/00 B26D1/40 B26D1/62 B26D7/26 (Advanced/Invention)
CPC: B26D1/0006 B26D7/2614 B26D2001/002 B26D1/626 B26D1/405 B26D1/62 B26D2001/0053 B26D2001/006



Family:

Publication number	Publication date	Application number	Application date
US2018154533 AA	20180607	US20170446378	20170301
US2018154540 AA	20180607	US20160371596	20161207
WO18106766 A1	20180614	WO2017US64843	20171206
WO18106769 A1	20180614	WO2017US64846	20171206

Priority:
US20160371596 20161207 US20170446378 20170301

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO

Inventor(s): (std): BITTNER DALE FRANCIS ; BUSCH JAMES WILLIAM ; CONGLETON STEPHEN DOUGLAS ; KALNITZ HOWARD JAY ; LYMAN CHRISTOPHER ROBERT ; TUERTSCHER JENNIFER LYNN ; WORTLEY MATTHEW RYAN ; WORTLEY MATTHEW ; TUERTSCHER JENNIFER ; KALNITZ HOWARD ; CONGLETON STEPHEN ; BUSCH JAMES ; BITTNER DALE

Agent(s): KREBS JAY A

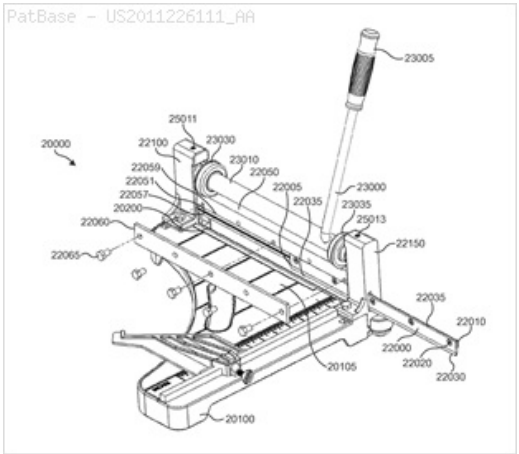
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

174) Family number: 49584499 (US2011226111A)

Title: VINYL COMPOSITION TILE CUTTER

Abstract: A VCT tile cutter comprises a movable top blade and a fixed bottom blade capable of shearing a VCT tile. The cutter includes a blade carrier in which the top blade can be slid horizontally in relation to the fixed position of the bottom blade beneath it. In this way, an outer edge of the top blade can be slid horizontally and positioned over a point in a tile that corresponds to the end point of a desired partial cut in the tile. When a crankshaft mechanism is activated, the blade creates a partial cut in the tile from the perimeter of the tile to a point in the tile corresponding to the location of the end of the movable blade. The blade may be straight or faceted and may have partially or completely relieved edges to enhance the capability of the cutter to perform partial cuts in the tile.

Classifications:
International (IPC 8-9): B23D15/00 B26D7/26 (Advanced/Invention)
CPC: B26D7/2614 B26D1/0006 B26D1/38 B26D7/2628 B26D2001/0066 Y10T83/8867 Y10T83/9447 B26D5/10 B26D5/16
European: B26D1/00C B26D1/38 B26D7/26B B26D7/26C L26D1/00C16
US: 83/640 83/640P 83/694 83/694S



Family:

Publication number	Publication date	Application number	Application date
US2011226111 AA	20110922	US20100878899	20100909

Priority:

US20090276403P 20090911 US20100878899 20100909

Probable Assignee: CRAIN CUTTER CO INC

Assignee(s): (std)**:** BIRD BRIAN ALEXANDER ; NGUYEN TAN

Assignee(s): CRAIN CUTTER CO INC

Inventor(s): (std)**:** BIRD BRIAN ALEXANDER ; NGUYEN TAN

175) Family number: 45903503 (US2010166496A)

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Title: DEVICE THAT CAN BE ASSEMBLED BY COUPLING

Abstract: A device can be assembled by a coupling. The device includes first and second body members and positioning structure. The first and second body members are designed to be coupled relative to each other. The positioning structure is designed to provide an interface between the first and second body members, and to position the first and second body members relative to each other via first, second, and third contact areas. The first, second, and third contact areas are each substantially linear and are collectively configured to receive loads, and to limit positioning of the first and second body members relative to each other with regard to five degrees of freedom. A fourth contact area between the first and second body members is designed to limit positioning of the first and second body members relative to each other in a sixth degree of freedom, in a first translational direction.

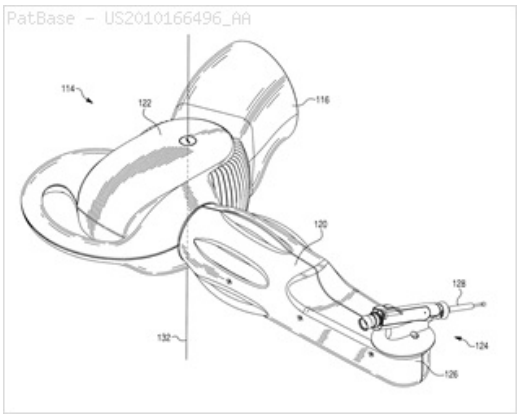
Classifications:

International (IPC 8-9)**:** A61B17/00 A61B17/32 A61B19/00 A61B34/00 A61B34/30 A61B90/00 A61B90/50 B25B11/00 B25J17/00 B25J18/00 B25J5/00 B25J9/10 F16C1/00 F16D1/12 F16H7/08 H01H3/20 (Advanced/Invention);
A61B17/00 A61B17/32 (Advanced/Non-invention);
A61B17/00 A61B17/32 A61B19/00 B25J17/00 B25J18/00 B25J9/10 F16C1/00 F16D1/00 (Core/Invention);
A61B17/00 (Core/Non-invention)

CPC: Y10T29/53961 Y10T74/20305 Y10T74/20323 Y10T74/20329 Y10T403/32057 Y10T403/32622 Y10T403/32631 A61B17/32002 A61B2017/00477 A61B34/30 A61B34/71 A61B90/50 A61B2034/715

European: A61B17/32E2 A61B19/22B A61B19/26 K61B17/00K K61B19/22D K61B19/22D2

US: 200/334 200/43.17 29/281.1 403/121 403/122 403/122P 403/59 474/101 474/101P 474/84 606/1 606/1P 606/42 74/490.01 74/490.04 74/490.040P 74/490.05 901/21 901/21S 901/28 901/28S 901/29



Family:

Publication number	Publication date	Application number	Application date
CA2747742 AA	20110617	CA20092747742	20091222
CA2747742 C	20180109	CA20092747742	20091222
CA2747768 AA	20110620	CA20092747768	20091222
CA2747768 C	20180515	CA20092747768	20091222
CA2747771 AA	20110620	CA20092747771	20091222
CA2747771 C	20170704	CA20092747771	20091222
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DE602009038649 D1	20160623	DE200960038649T	20091222
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EP2378992 B1	20180221	EP20090796505	20091222
EP2378993 A1	20111026	EP20090803941	20091222
EP2378993 B1	20170308	EP20090803941	20091222
EP2379284 A1	20111026	EP20090804085	20091222
EP2379284 B1	20180221	EP20090804085	20091222
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ES2669297 T3	20180524	ES20090796505T	20091222
US2010166496 AA	20100701	US20090644964	20091222
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US2011003656 AA	20110106	US20090654518	20091222
US8206053 BB	20120626	US20090644964	20091222
US8347755 BB	20130108	US20090654517	20091222
US8347756 BB	20130108	US20090654518	20091222
US8460277 BB	20130611	US20090644990	20091222
WO10074739 A1	20100701	WO2009US06655	20091222
WO10074742 A1	20100701	WO2009US06659	20091222
WO10074744 A1	20100701	WO2009US06661	20091222
WO10075404 A1	20100701	WO2009US69231	20091222

Priority:

US20080203475P 20081223 EP20090796505 20091222 EP20090796571 20091222

US20090644964 20091222 US20090644990 20091222 EP20090804085 20091222
US20090654519 20091222 WO2009US69231 20091222 WO2009US06659 20091222
WO2009US06661 20091222 WO2009US06655 20091222 US20090654517 20091222
US20090654518 20091222

Probable Assignee: MAKO SURGICAL CORP

Assignee(s): (std): BENNETT RICHARD ; BENNETT RICHARD P ; BENNETT RICHARD PAUL ; EBBITT PETER ; EBBITT PETER L ; MAKO SURGICAL CORP ; SCHMITZ BRIAN ; KANG HYOSIG ; SALCEDO JUAN ; SCHMITZ BRIAN DONALD ; POLSELLI JAMES ; SUAREZ JOSEPH ; SCHMITZ BRIAN D

Assignee(s): MAKO SURGICAL CORP FORT LAUDERDALE

Inventor(s): (std): SCHMITZ BRIAN ; BENNETT RICHARD ; KANG HYOSIG ; SUAREZ JOSEPH ; EBBITT PETER ; SALCEDO JUAN ; SCHMITZ BRIAN DONALD ; BENNETT RICHARD PAUL ; EBBITT PETER L ; POLSELLI JAMES ; BENNETT RICHARD P ; SCHMITZ BRIAN D ; JOSEPH SUAREZ ; BRIAN SCHMITZ

Agent(s): MARKS AND CLERK; MARKS AND CLERK LUXEMBOURG LLP; WALDREN ROBIN MICHAEL; CARPMAEL ROBERT MAURICE CHARLES; RIZZO SERGIO; FOLEY AND LARDNER LLP,SUITE 500; FOLEY AND LARDNER LLP SUITE 500; FOLEY AND LARDNER LLP; RAWLINS ANDREW E ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

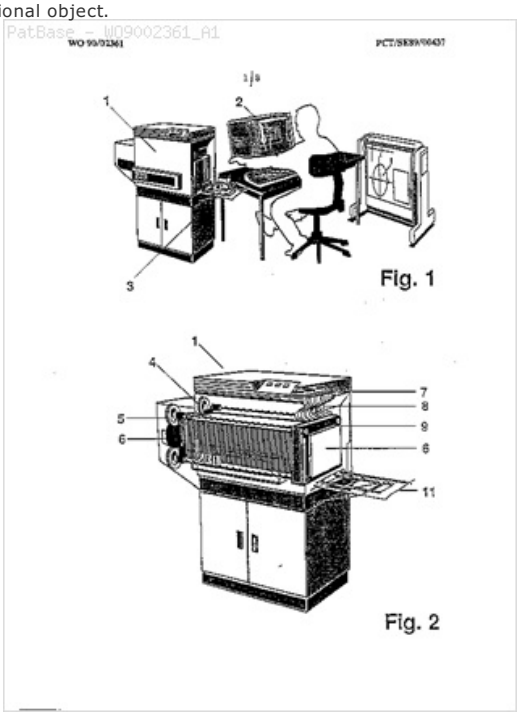
176) Family number: 3202503 (WO9002361A1)

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Title: APPARATUS AND METHOD FOR PRODUCING THREE-DIMENSIONAL OBJECTS

Abstract: The invention refers to a method and an apparatus for producing three-dimensional objects by using a converting machine, which is controlled by computer instructions. The material consists of a number of sheet- or disc-shaped sections (16). On the flat side of each section (16) at least one electrode (17a, 17b; 42, 43) is placed, and an electric voltage is impressed thereon sufficient to cause a breakover between the electrodes. Parts or particles of material located opposed to the electrodes are thus removed from or connected with the respective section (16). The treated sections are integrated layer by layer in a programmed sequence forming said three-dimensional object.

Classifications:
International (IPC 8-9): B23H1/04 B23P15/24 B26F3/00 B29C67/00 B29C67/02 B29C69/00 B29C70/30 B44B1/00 B44B1/02 B44C3/02 G03C9/08 G03F7/00 G05B19/41 (Advanced/Invention);
B26F3/00 (Advanced/Non-invention);
B23H1/00 B23P15/24 B26F3/00 B29C67/00 B29C67/02 B29C69/00 B29C70/04 B44B1/00 B44C3/00 G03C9/00 G03F7/00 G05B19/41 (Core/Invention)
International (IPC 1-7): B23Q35/00 B26F3/00 B29C67/00 B44B1/02 B44C3/02 G03C9/08 G05B19/18
CPC: B33Y30/00 B33Y10/00 B33Y70/00 G05B19/4099 G03F7/0037 B23H1/04 B23P15/246 B29C67/02 B29C69/001 B29C70/30 B29C2793/0045 B29L2031/772 B44B1/006 G05B2219/49011 Y02P90/265 B29C64/141 B29C48/001 B29C48/0022 B29C48/08 B29C48/12
European: B23H1/04 B23P15/24 B23P15/24B B29C67/00R4 B29C67/02 B29C69/00B B29C70/30 B44B1/00Z G03F7/00S G05B19/41 L29C47/00J9 L29C47/00L L29C47/00L12 L29C793/00E L29L31/772 S05B219/49011



Family:

Publication number	Publication date	Application number	Application date
AU198940684 A1	19900323	AU19890040684	19890818
CN1043805 A	19900711	CN19891006649	19890830
EP0431005 A1	19910612	EP19890909447	19890818
ES2014902 AF	19900716	ES19890002968	19890829
JP4500180 T2	19920116	JP19890508865T	19890818
KR19907002415 A	19901207	KR19907000803	19890818
SE461752 B	19900319	SE19880003017	19880830
SE461752 C	19900712	SE19880003017	19880830
SE8803017 A0	19880830	SE19880003017	19880830
WO9002361 A1	19900308	WO1989SE00437	19890818

Priority:
SE19880003017 19880830 WO1989SE00437 19890818

Probable Assignee: SPARX AB

Assignee(s): (std): LARSON BROTHERS CO AB ; SPARX A B ; SPARX AB ; SPARX CORP

Inventor(s): (std): LARSON O ; LARSON R ; LARSSON OVE ; LARSSON RALF

Inventor(s): O LARSON ; OVE LARSSON ; R LARSON ; RALF LARSSON

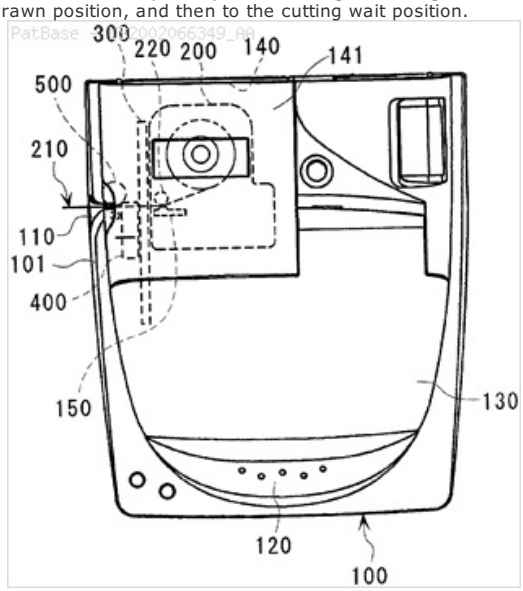
Designated states: AT AU BE BR CH DE DK FI FR GB IT JP KP KR LI LU NL NO SE US

177) Family number: 23174504 (US2002066349A)

Title: HALF-CUTTING DEVICE AND TAPE PRINTING APPARATUS INCORPORATING SAME

Abstract: There is provided a half-cutting device which makes it possible to attain the energy saving, downsizing of the construction of a tape printing apparatus using the device, and reliable cutting with a beautiful cut, and the tape printing apparatus incorporating the device. A half-cutting mechanism carries out half-cutting on a tape material introduced between the same and a tape-receiving member in a direction of the tape material. A half cutter of the half-cutting mechanism has a cutter blade formed by an angular blade, and performs a cutting operation on the tape material by moving in a direction of the width of the tape material. A cutter moving mechanism causes the half cutter to cyclically move through a cutting wait position, a cutting start position, a cutting completed position, a withdrawn position, and then to the cutting wait position.

Classifications:
International (IPC 8-9): B26D1/10 B26D3/08 B26D5/16 B26D7/08 B26D7/22 B26D7/26 B41J11/66 B41J11/70 B41J3/36 B41J3/407 B65H35/06 (Advanced/Invention);
B41J11/66 B41J3/36 (Advanced/Non-invention);
B26D1/01 B26D3/08 B26D5/08 B26D7/00 B26D7/08 B26D7/26 B41J11/66 B41J11/70 B41J3/36 B41J3/407 B65H35/06 (Core/Invention);
B41J3/36 (Core/Non-invention)
International (IPC 1-7): B26D1/10 B26D3/08 B26D5/08 B26D5/16 B26D7/08 B41J11/66 B41J11/70 B41J3/36 B65H35/06
CPC: B26D3/08 B26D7/08 Y10T83/0333 Y10T83/0605 Y10T83/8748 Y10T83/8822 Y10T83/8841 Y10T83/8876 B26D7/2614 B26D3/085 B26D5/16 B26D7/22 B41J3/4075 B41J11/666 B41J11/703
European: B26D3/08 B26D3/08B B26D5/16 B26D7/08 B26D7/22 B26D7/26B B41J11/66P B41J11/70B B41J3/407L
US: 83/56 83/563 83/614 83/627 83/647 83/879



Family:

Publication number	Publication date	Application number	Application date
CN1188290 C	20050209	CN20011041048	20010929
CN1344621 A	20020417	CN20011041048	20010929
JP2002103273 A2	20020409	JP20000297856	20000929
JP2002103274 A2	20020409	JP20000297857	20000929
JP2002103281 A2	20020409	JP20000297851	20000929
JP2002103282 A2	20020409	JP20000297852	20000929
JP2002103712 A2	20020409	JP20000297855	20000929
JP4370709 B2	20091125	JP20000297856	20000929
KR100395833 B1	20030827	KR20010060400	20010928
KR20020025795 A	20020404	KR20010060400	20010928
TW521037 B	20030221	TW20010123643	20010925
US2002066349 AA	20020606	US20010951358	20010912
US6694854 BB	20040224	US20010951358	20010912

Priority:

JP20000297851 20000929 JP20000297852 20000929 JP20000297855 20000929
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Probable Assignee: SEIKO EPSON CORP

Assignee(s): (std)**:** FURUYA YOSHIKIYO ; KING JIM CO LTD ; SEIKO EPSON CORP

Inventor(s): (std)**:** FURUYA YOSHIKIYO ; YOSHIKIYO KOYA

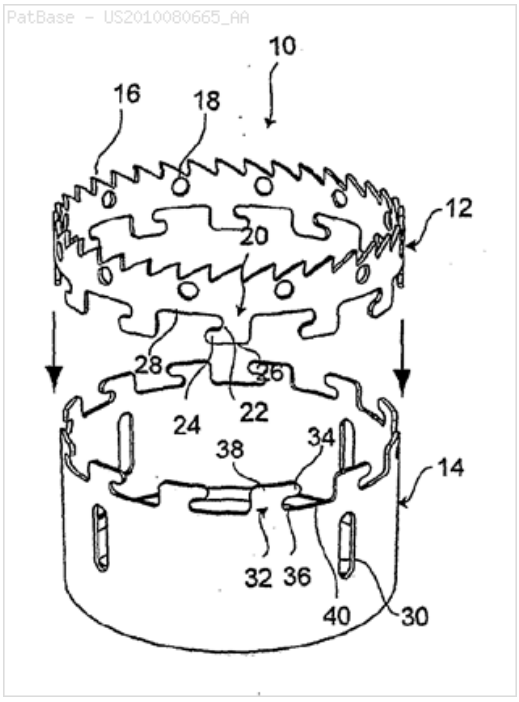
Inventor(s): KOYA YOSHIKIYO

178) Family number: 41819504 (US2010080665A)

Title: HOLE SAW WITH INTERCHANGEABLE CUTTING BLADES

Abstract: A hole saw having a central body portion adapted to receive a hole saw blade portion. The body and the blade have correspondingly shaped apertures and lugs that co-operate together to hold the blade in place. A locking means further assists in ensuring that the blade remains locked to the body and includes a sliding klatch that engages an aperture in the blade and the body and is itself locked in place to thereby lock the blade to the body.

Classifications:
International (IPC 8-9): B23B51/04 B23B51/12 B26F1/16 (Advanced/Invention);
B23B51/05 (Advanced/Non-invention);
B23B51/04 B26F1/16 (Core/Invention)
International (IPC 1-7): B23B51/04
CPC: B23B51/05 B23B51/0433 Y10T408/895 B23B2251/02 B23B51/0466 B23B51/0406 B23B51/0473 B23B51/126
European: B23B51/04B3B B23B51/04B6
US: 1/1 408/204



Family:

Publication number	Publication date	Application number	Application date
AU2007321707 AA	20080522	AU20070321707	20071114
AU2012201549 AA	20120405	AU20120201549	20120316
AU2015264912 AA	20151224	AU20150264912	20151204
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AU2017203634 AA	20170615	AU20170203634	20170530
CA2670874 AA	20090514	CA20072670874	20071114
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EP2083960 A1	20090805	EP20070815551	20071114
EP2083960 A4	20110126	EP20070815551	20071114
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IN307968 B	20190301	IN2009DN03834	20090611
JP2010509085 T2	20100325	JP20090536559T	20071114
JP5700236 B2	20150415	JP20090536559T	20071114
NZ611550 A	20141224	NZ20070611550	20071114
RU2009121615 A	20101220	RU20090121615	20071114
US2010080665 AA	20100401	US20070514902	20071114
US2015367425 AA	20151224	US20150840242	20150831
US9120162 BB	20150901	US20070514902	20071114
US9884373 BB	20180206	US20150840242	20150831
WO08058329 A1	20080522	WO2007AU01748	20071114

Priority:

AU20060906340 20061114 AU20060906340P 20061114 AU20070321707 20071114
WO2007AU01748 20071114 NZ20070577003 20071114 US20090514902 20090818
AU20120201549 20120316 US20150840242 20150831 AU20150264912 20151204
AU20170203634 20170530

Probable Assignee: KYM KEIGHTLEY

Assignee(s): (std): JOHN KEIGHTLEY KYM ; KEIGHTLEY KIM ; KEIGHTLEY KYM ; KEIGHTLEY KYM JOHN ; KYM JOHN KEIGHTLEY ; KYM KEIGHTLEY

Inventor(s): (std): KEIGHTLEY KYM JOHN ; JOHN KEIGHTLEY KYM ; KEIGHTLEY KYM

Inventor(s): KYM JOHN KEIGHTLEY

Agent(s): LESICAR PERRIN; LESICAR MURRAY TRENTO; LESICAR MAYNARD ANDREWS PTY LTD; MACPHERSON LESLIE AND TYERMAN LLP; BURROWS ANTHONY GREGORY; WEINER AND BURT PC; IRVING M; PAMELA S; SAND AND SEBOLT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

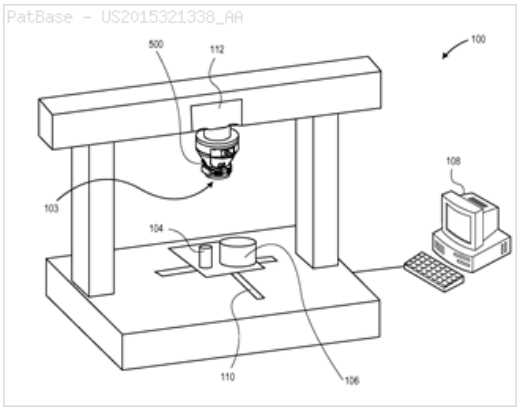
179) Family number: 60745507 (US2015321338A)

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Title: MASS TRANSFER TOOL MANIPULATOR ASSEMBLY WITH REMOTE CENTER OF COMPLIANCE

Abstract: Systems and methods for transferring a micro device or an array of micro devices to or from a substrate are disclosed. In an embodiment, a remote center robot allows on-the-fly alignment between a micro pick up array and a target substrate. The remote center robot may include a plurality of symmetric linkages that move independently and share a remote rotational center. In an embodiment, the remote rotational center may be positioned at a surface of the micro pick up array to prevent damage to the array of micro devices during transfer.

Classifications:
International (IPC 8-9): B25J18/00 B25J7/00 B25J9/00 B65G47/90 (Advanced/Invention)
CPC: B25J7/00 B25J9/0015 B25J18/007 Y10T74/20354 H01L2224/7565 H01L2224/75822
US: 414/800 74/490.09



Family:

Publication number	Publication date	Application number	Application date
CN106457555 A	20170222	CN201580026333	20150413
US2015321338 AA	20151112	US20140273298	20140508
US2017072559 AA	20170316	US20160364199	20161129
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WO15171267 A2	20151112	WO2015US25611	20150413
WO15171267 A3	20160225	WO2015US25611	20150413

Priority:
US20140273298 20140508 WO2015US25611 20150413 US20160364199 20161129

Probable Assignee: APPLE INC

Assignee(s): (std): APPLE INC ; LUXVUE TECH CORP ; LUXVUE TECHNOLOGY CORP

Inventor(s): (std): BIBL ANDREAS ; PARKS PAUL ARGUS ; LIGHT NILE ALEXANDER ; BATHURST STEPHEN P ; HIGGINSON JOHN A

Agent(s): BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; JAFFERY WATSON MENDONSA AND HAMILTON LLC; SCHELLER JAMES C ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

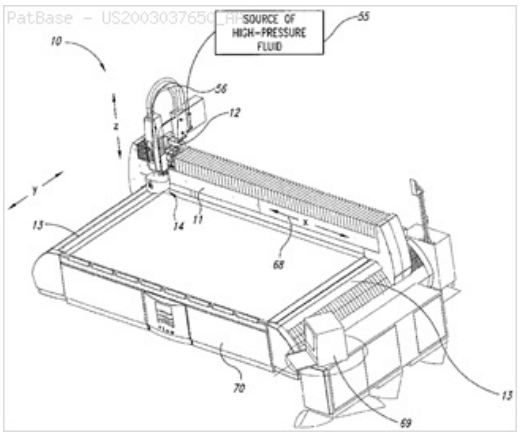
180) Family number: 29843514 (US2003037650A)

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Title: APPARATUS FOR GENERATING AND MANIPULATING A HIGH-PRESSURE FLUID JET

Abstract: An apparatus for generating and manipulating a high-pressure fluid jet includes an end effector assembly coupled to a manipulator that imparts motion to the end effector along one or more axes. The end effector assembly includes a cutting head coupled to a source of high-pressure fluid and to a source of abrasive, to generate a high-pressure abrasive fluid jet. A motion assembly is coupled to the cutting head via a clamp positioned around the cutting head. A nozzle body assembly is removably coupled to the cutting head assembly upstream of the orifice. The nozzle body assembly may be separated from the cutting head assembly to allow access to the orifice, without removing the cutting head assembly from the clamp. The clamp has a quick release mechanism, allowing an operator to open the clamp by hand to allow access to the cutting head, and an alignment member is provided on an inner surface of the clamp to accurately locate the cutting head in the clamp. The motion assembly includes two motors coupled together to form a gimbal wrist, each motor having a horizontal axis of rotation. The two axes of rotation are perpendicular to each other, but are not necessarily aligned with the manipulator's axes of motion. Spray from the abrasive fluid jet is contained by a shield provided directly in an end region of the cutting head assembly.

Classifications:
International (IPC 8-9): B22C1/08 B22D25/00 B24C1/00 B24C1/04 B24C3/00 B24C3/04 B24C3/06 B24C5/00 B24C5/02 B24C5/04 B24C7/00 B25C1/04 B25J9/02 B26D5/08 B26F1/26 B26F3/00 C22C1/08 (Advanced/Invention);
B24C1/00 B24C3/00 B24C5/00 B25C1/04 B26D5/08 B26F1/00 B26F3/00 (Core/Invention)
International (IPC 1-7): B05B1/02 B05B7/04 B05B7/28 B05B7/4 B22C1/08 B22D25/00 B22D27/00 B24C0/00 B24C1/00 B24C1/04 B24C5/02 B24C5/04 B24C7/0 B24C7/00 B25C1/04 B26D3/0 B26D3/00 B26F3/00 C22C1/08
CPC: B22D25/005 C22C1/08 C22C2001/083 C22C2001/086 Y10T83/364 Y10T83/0591 Y10T83/8726 B25J9/026 B24C1/045 B24C5/04 B26F3/004
European: B22D25/00F B24C1/04B B24C5/04 B25J9/02B2 B26F3/00C C22C1/08 M22C1/08F M22C1/08F4
US: 164/271 164/271S 164/79 164/79P 239/433 451/101 451/102 451/91 451/92 451/99 83/177 83/53 83/548



Family:

Publication number	Publication date	Application number	Application date
AT296698 E	20050615	AT20010908489T	20010223
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Priority:

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US20030717744	20031120	US20040008126	20041210	US20080013956	20080114

Probable Assignee: CYMAT TECHNOLOGIES LTD

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

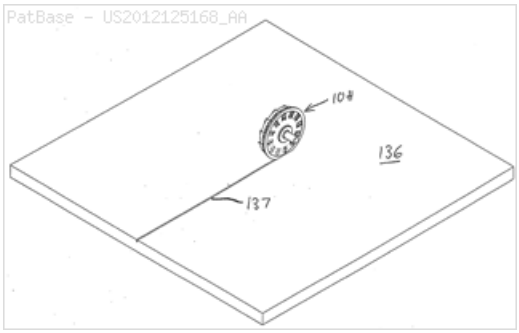
181) Family number: 48257515 (US2012125168A)

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Title: CUTTING DEVICE

Abstract: A cutting device (10) for cutting a pipe (32) having a pipe wall is disclosed. The cutting device (10) includes an elongate carrier (12) having a tool end (12.1) which is engageable with a power tool and an opposed free end (12.2). The device (10) includes a guide wheel (16) located at the free end (12.2) of the carrier (12) which is loosely mounted thereon for rotation relative thereto, having a bearing surface (34) extending parallel to a longitudinal axis of the carrier (12). The device (10) also includes a cutting element (14) having a peripheral cutting edge (36) which is located adjacent to the guide wheel (16) being positioned intermediate the guide wheel 16 and the tool end (12.1). The cutting element (4) is of greater transverse dimension than the guide wheel (16) so that when the bearing surface (34) bears against an internal surface of the pipe (32) the distance between the cutting edge (36) of the cutting element (14) and the bearing surface (34) enables the cutting element (14) to cut through the pipe wall.

Classifications:
International (IPC 8-9): B23D B23D21/00 B23D21/08 B23D21/14 B23D45/12 B23Q35/10 B24B27/06 B24B45/00 B24B55/08 B26D B26D1/12 B26D1/14 B26D1/143 B26D7/00
B26D7/26 (Advanced/Invention);
B23D21/14 (Core/Invention);
B23D B26D (Subclass/Invention)
CPC: Y10T83/04 Y10T83/8878 B27B5/32 B23D45/12 B24B45/006 B24D5/12 B24D5/16 B26D1/0006 B26D1/14 B26D3/163 B26D3/166 B26D7/0006 B26D2001/002 B26D2001/0046
European: B23D45/12 B24B45/00C B24D5/12 B24D5/16 B26D1/00C B26D1/14 B26D3/16D B26D3/16F B26D7/00B B27B5/32 L26D1/00C10 L26D1/00C4
US: 83/13 83/13P 83/821 83/821S



Family:

Publication number	Publication date	Application number	Application date
AU2009203210 AA	20110217	AU20090203210	20090803
AU2010206102 AA	20110217	AU20100206102	20100803
AU2010206102 BB	20110317	AU20100206102	20100803
AU2010206102 CA	20110707	AU20100206102	20100803
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AU2012101642 AD	20121220	AU20120101642	20121107
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EP2461931 A4	20150909	EP20100805879	20100803
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KR20120089641 A	20120813	KR20127005734	20100803
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RU2012109008 A	20130910	RU20120109008	20100803
SG178244 A1	20120329	SG20120007639	20100803
TH124028 A	20130531	TH20121000432	20100803
US2012125168 AA	20120524	US20100388734	20100803
WO11014914 A1	20110210	WO2010AU00981	20100803

ZA201201305 A	20121031	ZA20120001305	20120222

Priority:

AU20090203210 20090803	AU20100206102 20100803	WO2010AU00981 20100803
EP20100805879 20100803	AU20120100231 20120302	AU20120101642 20121107

Probable Assignee: FRELK IND PTY LTD

Assignee(s): (std): ELKINGTON MICHAEL JAMES ; FRELK IND PTY LTD ; LOCH ANDREW ; O KEEFE FRASER THOMAS ; MCMINN WILLIAM

Assignee(s): FRELK IND PTY LTD BURLEIGH WATERS ; FRELK INDUSTRIES PTY LTD

Inventor(s): (std): LOCH ANDREW ; ELKINGTON MICHAEL JAMES ; O KEEFE FRASER THOMAS ; MCMINN WILLIAM ; FRASER THOMAS O KEEFE ; MICHAEL JAMES ELKINGTON ; O KEEFE FRASER ; ANDREW LOCH ; JAMES ELKINGTON MICHAEL ; THOMAS O KEEFE FRASER ; WILLIAM MCMINN

Inventor(s): FRASER THOMAS OKEEFE ; FRASER O KEEFE

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; EAGAR BARRY MR; BARRY EAGAR; EAGAR AND MARTIN PTY LTD; EAGAR AND ASSOCIATES PTY LTD; ADE AND CO INC; GROSFILLIER PHILIPPE; SACH GREG ROBERT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

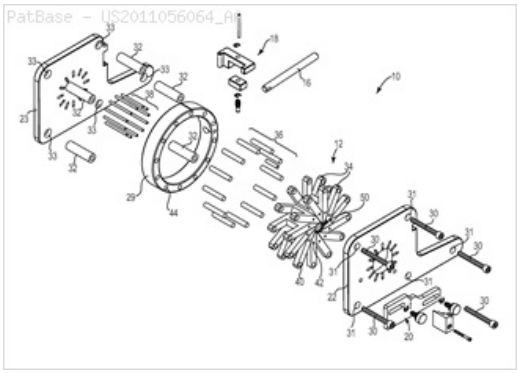
182) Family number: 48390520 (US2011056064A)

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Title: CRIMPING DEVICE AND METHOD OF USE

Abstract: A crimping tool for crimping a stented heart valve comprises a housing having a front wall and a back wall, a compression assembly disposed between the front wall and the back wall and including a stent receiving chamber therewithin for receiving a stented heart valve, and a delivery device holder slidably coupled to the front wall of the housing. The compression assembly is movable between an uncrimped position and a crimped position to reduce the diameter of the stented heart valve.

Classifications:
International (IPC 8-9): A61B17/00 A61F2/24 A61F2/82 A61F2/84 A61F2/95 A61F2/966 A61M29/02 B23P19/00
B25B27/10 (Advanced/Invention);
A61F2/95 (Advanced/Non-invention)
CPC: Y10T29/49925 Y10T29/53265 Y10T29/53657 A61F2/2427 A61F2/2412 A61F2/2418 A61F2002/9517 A61F2002/9522 A61F2/2439 A61F2/2436 B25B27/10
European: A61F2/24H A61F2/24H4 A61F2/24H6 B25B27/10 K61F2/24D K61F2/95H K61F2/95M
US: 29/235 29/235S 29/515 29/515P 29/760 623/2.11 623/2.110P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20160381146 20161216

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

183) Family number: 59882521 (EP2907631B1)

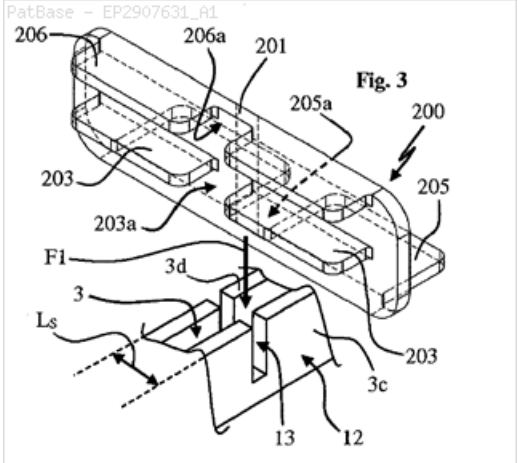
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Title: STOP WITH DOUBLE FUNCTION FOR A DEVICE FOR CUTTING PLATES BUTEE A DOUBLE FONCTION POUR UN OUTIL DE DECOUPE DE PLAQUE

Abstract: Source: EP2907631A1 [FR] La presente invention propose une butee economique, et polyvalente pour un outil de decoupe d'une plaque, l'outil comprenant un support sur lequel une lame est montee pivotante, une fente destinee a recevoir au moins une partie de la lame au cours de la coupe, et une encoche debouchant dans la fente. A cette fin, la butee comprend une paroi mediane, destinee a etre inseree en force dans l'encoche, et comprenant: - une face plane de contact, sur laquelle est agencee une levre de soutien s'etendant dans un premier plan perpendiculaire a la face de contact et positionnee de maniere a affleurer au niveau de la fente en position d'utilisation de coupe; - une seconde face plane, opposee a la face de contact, sur laquelle est agencee une levre de delignage, s'etendant perpendiculairement a la seconde face plane selon un deuxieme plan parallele et decale par rapport au premier plan de la levre de soutien, de maniere a affleurer au niveau de la fente en position d'utilisation de delignage.

Machine translation: The present invention provides an economy stop, and versatile for a cutting tool of a plate, the tool comprising a support on which a blade is pivotally mounted, one for a slot receiving at least a portion of the blade during cutting, and a notch opening into the slot. To this end, the stop comprises a median wall, intended to be forcibly inserted into the notch, and comprising: - a flat contact face, on which is arranged in a support lip extending a first plane perpendicular to the contact face and positioned to be flush with the level of the slot cutting position of use; - A second planar face opposite the contact face, on which is arranged an edging lip, extending perpendicular to the second planar surface in a second plane parallel to and offset from the first plane of the supporting lip, a flush manner in the slot in use of trimming position.

Classifications:
International (IPC 8-9): B26D1/30 B26D7/01 B28D1/22 (Advanced/Invention)
CPC: B26D7/015 B26D1/30 B26D7/016



Family:

Publication number	Publication date	Application number	Application date
DE602015000747 D1	20170105	DE201560000747T	20150112

EP2907631 A1	20150819	EP20150000042	20150112
EP2907631 B1	20161123	EP20150000042	20150112
FR3016313 A1	20150717	FR20140050279	20140114
FR3016313 B1	20160122	FR20140050279	20140114

Priority:

FR20140050279 20140114 EP20150000042 20150112

Probable Assignee: PIERRE GREHAL ET CIE ETS SA

Assignee(s): (std)**:** PIERRE GREHAL ET CIE ETS SA

Inventor(s): (std)**:** MARCON LIONEL

Inventor(s): LIONEL MARCON

Agent(s): RATABOUL XAVIER; BE LEADER INNOVATION

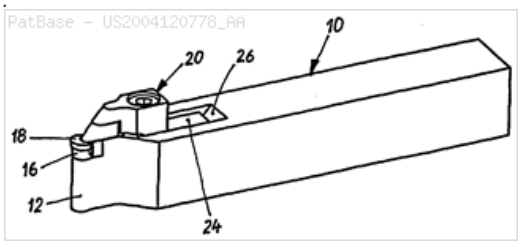
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

184) Family number: 23903521 (US2004120778A)

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Title: PROFILE TURNING TOOL

Abstract: The profile turning tool is used for rough-turning and dressing circumferential and flat surfaces, in particular of workpieces made of light metals. It consists of a holder (10) with a receiver (16) for a diamond cutting head (18) as well as a claw (20), which is embodied as a chip breaker, engages a longitudinal groove (26) in the holder (10) and braces the cutting head (18) by means of a tightening screw (22). The groove (26) is located directly behind the cutting head (18). In longitudinal section, its base has an arcuate, concave shape and represents a pivot bearing for the claw (20) that has a correspondingly shaped underside and is guided on the lateral walls of the groove (26). The tightening screw (22) extends in front of the center of the arc with play through a hole in the claw (20).



Classifications:
International (IPC 8-9): B23B27/04 B23B27/06 B23B27/16 B23B27/22 (Advanced/Invention); B23B27/00 B23B27/16 (Core/Invention)
International (IPC 1-7): B23B27/04 B23B27/06 B23B27/16 B23B27/22 B23B29/04 B23P15/28 B26D1/00 B26D3/00
CPC: Y10T407/11 Y10T407/116 Y10T407/2268 Y10T407/227 Y10T407/228 Y10T407/2282 Y10T407/24 Y10T407/27 B23B27/1629 B23B27/06 B23B2200/0461 B23B2200/161 B23B2222/28 B23B2226/125 B23B2226/315
European: B23B27/06 B23B27/16D1 L23B200/04G L23B200/16A L23B222/28 L23B226/12C L23B226/31P
US: 407/100 407/101 407/106 407/107 407/107P 407/115 407/119 407/2 407/5

Family:

Publication number	Publication date	Application number	Application date
AT392968 E	20080515	AT20020714185T	20020312
DE10113633 A1	20020926	DE20011013633	20010321
DE10113633 B4	20060413	DE20011013633	20010321
DE50212146 D1	20080605	DE20025012146	20020312
EP1370382 A1	20031217	EP20020714185	20020312
EP1370382 B1	20080423	EP20020714185	20020312
ES2305222 T3	20081101	ES20020714185T	20020312
JP2004520950 T2	20040715	JP20020575163T	20020312
JP4148779 B2	20080910	JP20020575163T	20020312
US2004120778 AA	20040624	US20040472210	20040120
US6969218 BB	20051129	US20040472210	20040120
US6969218 BB	20051129	US20020472210	20020312
WO02076660 A1	20021003	WO2002EP02670	20020312

Priority:

DE20011013633 20010321 WO2002EP02670 20020312

Probable Assignee: JAKOB LACH GMBH AND CO KG

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Assignee(s): JAKOB LACH GMBH AND COKG ; JAKOB LACH GMBH

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Agent(s): JOCHEM BERND ET AL; KATO ASAMICHI; UCHIDA KIYOHITO; ISHIDA YASUMASA; WILLIAM E; STITES AND HARBISON PLLC

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE TR US

185) Family number: 57264523 (US2014241843A)

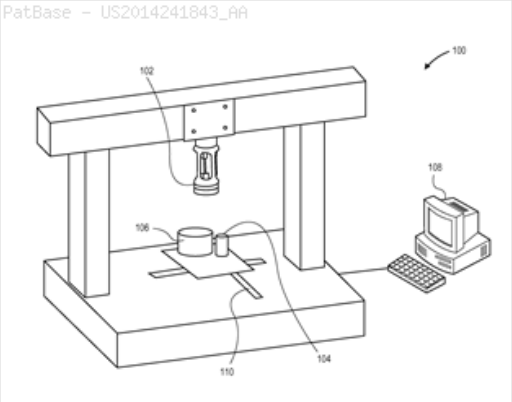
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Title: MASS TRANSFER TOOL MANIPULATOR ASSEMBLY

Abstract: Systems and methods for transferring a micro device from a carrier substrate are disclosed. In an embodiment, a mass transfer tool manipulator assembly allows active alignment between an array of electrostatic transfer heads on a micro pick up array and an array of micro devices on a carrier substrate. Displacement of a compliant element of the mass transfer tool manipulator assembly may be sensed to control alignment between the array of electrostatic transfer heads and the array of micro devices.

Classifications:
International (IPC 8-9): B25J11/00 B25J13/08 B25J15/00 B25J17/02 B25J19/02 B25J7/00 B25J9/00 B25J9/10 B65G47/91 B65G49/07 H01L21/00 H01L21/67 H01L21/677 H01L21/68 H01L21/683 H01L23/00 (Advanced/Invention)
CPC: B25J15/0052 B25J7/00 B25J9/0015 H01L2224/7598

B25J17/0208 H01L21/67144 H01L24/95 H01L2224/75252 H01L2224/75282 H01L2224/75725 H01L2224/75823 H01L2224/75901 H01L2224/7592 H01L2924/12041 H01L2924/12042 H01L2924/1461 H01L24/75 H01L2924/00 B25J9/1015 H01L21/6833 H01L21/67721 H01L21/68 H01L2224/7565 H01L2224/75723 H01L2224/759 H01L2224/75984 H01L2224/75251 B25J15/0085 H01L21/677 B65G47/91 B65G49/07
US: 1/1 414/751.1 414/800 414/806



Family:

Publication number	Publication date	Application number	Application date
CN105074899 A	20151118	CN201480010122	20140214
CN105074899 B	20170609	CN201480010122	20140214
KR101787860 B1	20171018	KR20157026141	20140214
KR20150123858 A	20151104	KR20157026141	20140214
TW201446443 A	20141216	TW20140106088	20140224
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US2014241843 AA	20140828	US20130776158	20130225
US2014241844 AA	20140828	US20130776188	20130225
US2016176045 AA	20160623	US20160054977	20160226
US9095980 BB	20150804	US20130776188	20130225
US9308649 BB	20160412	US20130776158	20130225
US10022859 BB	20180717	US20160054977	20160226
WO14130353 A1	20140828	WO2014US16418	20140214

Priority:

US20130776158 20130225 US20130776188 20130225 WO2014US16418 20140214 US20160054977 20160226

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Agent(s): BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; RUTAN AND TUCKER LLP; AIKIN JACOB T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

186) Family number: 30560532 (US4855188A)

Title: HIGHLY EROSIVE AND ABRASIVE WEAR RESISTANT COMPOSITE COATING SYSTEM

Abstract: A highly erosive and abrasive wear resistant composite coating system is described in which an intermediate layer of substantially pure tungsten is deposited on a substrate. An outer layer is then deposited comprised of a mixture of tungsten and tungsten carbide, with the tungsten carbide consisting of W 2 C, W 3 C or a mixture of both. The thickness of the intermediate layer is sufficient to confer substantial erosive and abrasive wear resistance characteristics on the composite coating system. The ratio of the thickness of the intermediate layer to the thickness of the outer layer is controlled and is at least above 0.30 in the cases of W+W 3 C, W+W 2 C+W 3 C and W+W 2 C coatings.
Classifications:
International (IPC 8-9): B32B15/04 B32B27/14 C01B31/34 C01B32/949 C23C14/06 C23C16/00 C23C16/02 C23C16/06 C23C16/08 C23C16/14 C23C16/30 C23C16/32 C23C16/46 C23C16/52 C23C28/00 C23C30/00 (Advanced/Invention); C23C14/06 C23C16/32 (Advanced/Non-invention); C01B31/00 C23C14/06 C23C16/06 C23C16/30 C23C16/32 C23C28/00 (Core/Invention)
International (IPC 1-7): B22F7/08 B23B27/14 B26B9/00 B32B15/04 B32B27/14 C01B31/34 C22C27/04 C22C29/08 C23C14/06 C23C14/16 C23C14/24 C23C16/00 C23C16/02 C23C16/06 C23C16/08 C23C16/14 C23C16/30 C23C16/32 C23C16/46 C23C16/52 C23C28/00
CPC: C23C30/005 Y10S428/932 Y10T428/12576 Y10T428/12583 Y10T428/12632 Y10T428/1284 Y10T428/12944 C23C16/32 C23C16/08 Y10T428/12056 C23C28/00 C23C16/14 C23C16/30
European: C23C16/08 C23C16/14 C23C16/30 C23C16/32 C23C28/00 C23C30/00B
US: 30/350 427/237 427/249 427/249.17 427/249.18 427/250 427/252 427/253 427/255 427/255.1 427/255.2 427/255.7 427/327 427/328 427/383.7 427/404 427/405 427/417.7 427/419.7 427/437 428/220 428/552 428/627 428/628 428/635 428/665 428/680 428/932 75/240 76/104.1

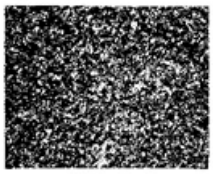


FIG. 1

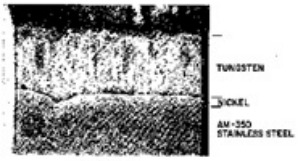


FIG. 2

Family:

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AU198821582 A1	19890525	AU19880021582	19880826
AU198928958 A1	19890810	AU19890028958	19890201
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CA1330249 A1	19940621	CA19880575909	19880829
CA1333139 A1	19941122	CA19890589920	19890202
CA2011202 AA	19900907	CA19902011202	19900228
CA2022065 AA	19910203	CA19902022065	19900726
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DE68909629 T2	19940210	DE19896009629T	19890208
DK486888 A	19890304	DK19880004868	19880901
DK486888 A0	19880901	DK19880004868	19880901
DK54489 A	19890809	DK19890000544	19890207
DK54489 A0	19890207	DK19890000544	19890207
EP0305917 A2	19890308	EP19880113932	19880826
EP0305917 A3	19900307	EP19880113932	19880826
EP0305917 B1	19950104	EP19880113932	19880826
EP0328084 A2	19890816	EP19890102176	19890208
EP0328084 A3	19891025	EP19890102176	19890208
EP0328084 B1	19931006	EP19890102176	19890208
EP0386658 A2	19900912	EP19900104130	19900302
EP0386658 A3	19901010	EP19900104130	19900302
EP0411646 A1	19910206	EP19900114897	19900802
IL87587 A0	19890131	IL19880087587	19880829
IL87587 A1	19930114	IL19880087587	19880829
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IL93588 A0	19901223	IL19900093588	19900301
IL93588 A1	19941128	IL19900093588	19900301
JP1246363 A2	19891002	JP19890029570	19890208
JP2006314 A2	19900110	JP19880220261	19880902
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JP7084661 B4	19950913	JP19890029570	19890208
JP7088581 B4	19950927	JP19900203754	19900731
KR19890005297 A	19890513	KR19880011436	19880903
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KR19900014064 A	19901022	KR19900003085	19900306
KR910005238 B1	19910724	KR19880011436	19880903
KR930008691 B1	19930913	KR19900003085	19900306
US4855188 A	19890808	US19880153738	19880208
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US4990372 A	19910205	US19890388104	19890731
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US5024901 A	19910618	US19890346774	19890503
US5064728 A	19911112	US19900600456	19901019

Priority:

US19870092809 19870903
CA19890589920 19890202
US19890319774 19890307
US19890389206 19890802
CA19902022065 19900726
US19880153738 19880208
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US19890388104 19890731
US19900490184 19900308

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Inventor(s): WRECSICS ERNEST L BETHLEHEM PA 18017 US ; SCHAFFER LESLIE E MACUNGIE PA 18062 US ; PAUL N DYER ; MUELLER CARL F EASTON PA 18042 US ; MARK A PELLMAN ; KLUCHER BETH A SHERMAN OAKS CA 91403 US ; KIDD RICHARD W NEWHALL CA 91321 US ; GARG DIWAKAR MACUNGIE PA 18062 US ; DYER PAUL NIGEL ALLENTOWN PA 18103 US ; DIMOS DUANE WHITEHALL PA 18052 US ; CECCARELLI CHRISTOPHER WHITEHALL PA 18052 US

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; SANFORD TCOLB AND CO

Designated states: AT BE CH DE DK ES FR GB IT LI LU NL SE

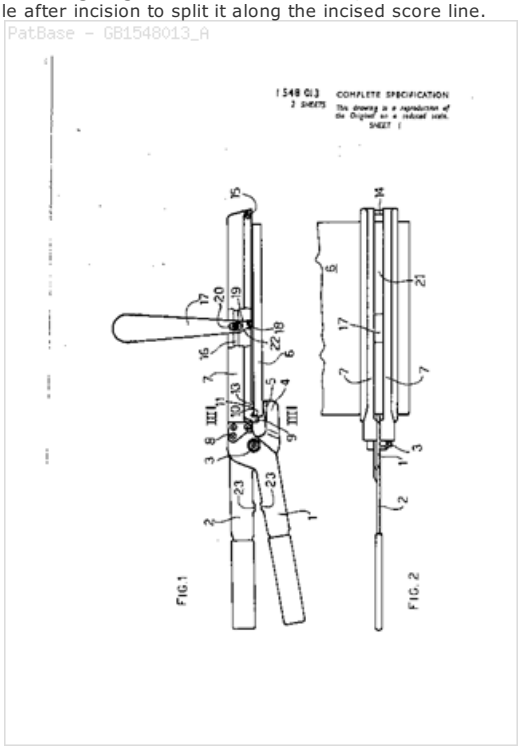
187) Family number: 18921532 (GB1548013A)

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Title: HAND CUTTING TOOLS FOR CERAMIC TILES

Abstract: (Claim 1) 1. A hand cutting tool for ceramic tiles, comprising, in a single assembly, a pincers having jaws adapted to grip between them a tile to be cut and a cutter for incising a score line into the tile, in which the cutter is movable in a longitudinal opening formed in a jaw of the pincers which is held uppermost in use of the pincers, the opening being shaped to guide the cutter during incision of a tile gripped between the jaws, and being longer than the tile to be cut, and in which the jaws form an anvil and punch adapted to apply splitting force to the tile after incision to split it along the incised score line.

Classifications:
International (IPC 8-9): B28D1/22 C03B33/12 (Advanced/Invention); B28D1/22 C03B33/00 (Core/Invention)
International (IPC 1-7): B26B5/00 B28B B28D1/22 B28D1/28
CPC: B28D1/225 C03B33/12 B28D1/22
European: B28D1/22D C03B33/12



Family:

Publication number	Publication date	Application number	Application date
DE2604733 A1	19770113	DE19762604733	19760206

DE7603427 U1	19770707	DE19760003427U	19760206
FR2315365 A1	19770121	FR19760017938	19760614
FR2315365 B1	19820312	FR19760017938	19760614
GB1548013 A	19790704	GB19760025929	19760622
IT1030800 A	19790410	IT19750040069	19750627

Priority:

IT19750040069 19750627

Probable Assignee: LAVORAZIONI MECCANICHE CITIERR

Assignee(s): (std): LAVORAZIONI MECCANICHE CITIERR ; LAVORAZIONI MECCANICHE CITIERRE S P A MODENA I ; SIRI FRANCO TREVISI CO ; LAVORAZIONI MECCANICHE CITIERRE SOCIETA PER AZIONI

Assignee(s): LAVORAZIONI MECCANICHE CITIERRE S P A MODENA ITALIEN ; LAVORAZIONI MECCANICHE CITIERRE SPA ; LAVORAZIONI MECCANICHE CITIERRE ; LAVORAZIONI MECCANICHE CITIERRE - S P A MODENA (ITALIEN) ; LAVORAZIONI MECCANICHE CITIERRE S P A

Inventor(s): (std): TREVISI FRANCO

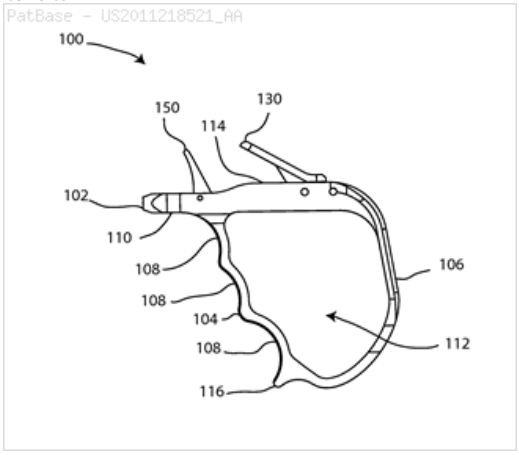
188) Family number: 49553533 (US2011218521A)

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Title: ERGONOMIC SURGICAL INSTRUMENT HANDLE

Abstract: Instrument handles isolate the functions of supporting the instrument and actuating controls on the instrument. An instrument handle may be grasped and supported by the less dexterous digits and palm of a human hand, and controls mounted on the instrument handle may be actuated by the more dexterous digits. The instrument handle may couple to an end effector so that the hand, wrist, elbow, and shoulder remain in a comfortable position when the end effector is positioned to act effectively on a selected portion of a workpiece, such as a surgical site.

Classifications:
International (IPC 8-9): A61B17/00 B25G1/01 (Advanced/Invention)
CPC: A61B17/00
US: 606/1 606/1P 81/320 81/323 81/329 81/331 81/489



Family:

Publication number	Publication date	Application number	Application date
US2011218521 AA	20110908	US20110041846	20110307
US8683896 BB	20140401	US20110041846	20110307

Priority:

US20100311058P 20100305 US20100373385P 20100813 US20110041846 20110307

Probable Assignee: MEDICINELODGE INC DBA IMDS CO INNOVATION

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Inventor(s): (std): GOBLE E MARLOWE ; WALKER BRANDON T ; GERBEC DANIEL E ; MARIETTA JOSEPH Q

Agent(s): PETER K

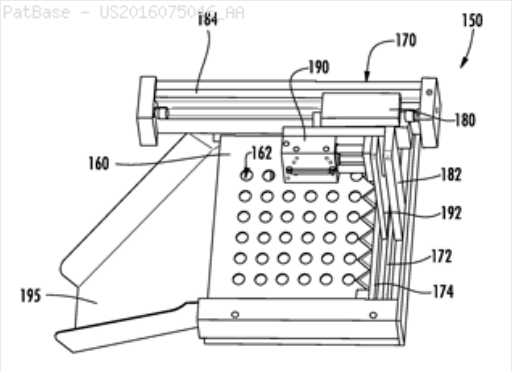
189) Family number: 9034533 (US2016075046A)

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Title: EGG DECAPPING APPARATUS, AND ASSOCIATED METHOD

Abstract: An egg decapping apparatus is provided. Such an apparatus includes a reference plate defining a plurality of reference openings therethrough. Each reference opening is adapted to receive an avian egg therein from a lower side of the reference plate and to stop further upward movement of the avian egg within the reference opening when an upper egg section to be cut extends from the reference opening above the reference plate. A cutter member is positioned above the reference plate. The cutter member is moveable across the reference plate and the reference openings from a precut position to a post cut position for creating an opening in the upper egg section. A cleaning member is moveable with the cutter member across the reference plate. The cleaning member is actuatable at the post cut position so as to remove debris from the upper egg section accumulated on the cutter member. Associated methods are also provided.

Classifications:
International (IPC 8-9): A23J1/08 A23L15/00 A47J43/14 B26D1/04 B26D3/24 B26D7/00 B26D7/08 B26D7/18 B67D1/06 B67D1/08 C12M3/00 C12M3/10 C12N7/00 (Advanced/Invention);
A23J1/00 (Advanced/Non-invention);
B67D1/00 (Core/Invention)
International (IPC 1-7): A47J43/14 B67D1/06 B67D1/08 B67D5/06
CPC: B26D7/088 B26D1/04 B26D3/24 B26D7/18 B26D2007/0018 A47J43/145
European: B67D1/06
US: 137/375 222/183 222/192 29/428 83/111 83/168 83/23 D7/308 D7/313 D7/397



Family:

Publication number	Publication date	Application number	Application date
AU2015318100 AA	20170309	AU20150318100	20150914
BR112017005249 A2	20171212	BR20171105249	20150914
CA2095890 AA	19931115	CA19932095890	19930510
CA2095890 C	19950523	CA19932095890	19930510
CA2958901 AA	20170221	CA20152958901	20150914
CA2958901 C	20190416	CA20152958901	20150914
CN107072266 A	20170818	CN201580048116	20150914
DE602015021470 D1	20190103	DE201560021470T	20150914
EP3193687 A1	20170726	EP20150774762	20150914
EP3193687 B1	20181212	EP20150774762	20150914
ES2709832 T3	20190417	ES20150774762T	20150914
JP2017534250 T2	20171124	JP20170512371T	20150914
KR20170039302 A	20170410	KR20177006359	20150914
MX2017003369 A1	20170628	MX20170003369	20150914
US2016075046 AA	20160317	US20150852671	20150914
US5232129 A	19930803	US19920882858	19920514
US10220538 BB	20190305	US20150852671	20150914
WO16044127 A1	20160324	WO2015US49901	20150914

Priority:

CA19932095890 19930510 US20140050238P 20140915 EP20150774762 20150914
US20150852671 20150914 WO2015US49901 20150914

Probable Assignee: REGENCY EQUIPMENT CO

Assignee(s): (std): REGENCY EQUIPMENT CO ; REGENCY EQUIPMENT COMPANY ; ZOETIS SERVICES LLC

Assignee(s): ZOETIS SERVICES LLC PARSIPPANY ; REGENCY EQUIPMENT CO A CORP OF MI ; FEDEROWICZ JOSEPH ; GUERRA JACK A

Inventor(s): (std): JOSEPH FEDEROWICZ ; GUERRA JACK A ; FEDEROWICZ JOSEPH

Inventor(s): FEDEROWICZ JOSEPH DURHAM

Agent(s): SHELSTON IP PTY LTD; SIM AND MCBURNEY; TORYS LLP; MANNION SALLY KIM; ONO SHINJIRO; YAMAMOTO OSAMU; MIYAMAE TORU; NAKANISHI MOTOHARU; TAKEUCHI SHIGEO; MAYHEW SCOTT C; MAYHEW SCOTT ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

190) Family number: 41515534 (US2008046122A)

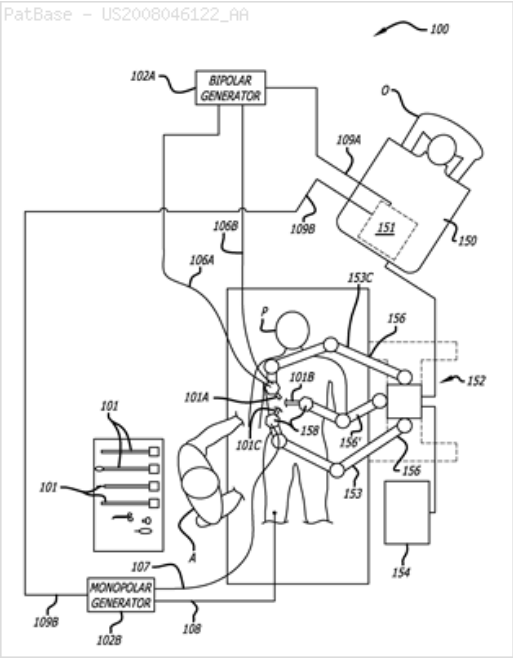
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Title: MAXIMUM TORQUE DRIVING OF ROBOTIC SURGICAL TOOLS IN ROBOTIC SURGICAL SYSTEMS

Abstract: In one embodiment of the invention, a control system for a robotic surgical instrument is provided including a torque saturation limiter, a torque to current converter coupled to the torque saturation limiter, and a motor coupled to the torque to current converter. The torque saturation limiter receives a desired torque signal for one or more end effectors and limits the desired torque to a range between an upper torque limit and a lower torque limit generating a bounded torque signal. The torque to current converter transforms a torque signal into a current signal. The motor drives an end effector of one or more end effectors to the bounded torque signal in response to the first current signal.

Classifications:
International (IPC 8-9): A61B1/00 A61B19/00 B25J9/16
G06F19/00 (Advanced/Invention);
A61B17/00 A61B17/28 A61B17/29 G06F19/00 (Advanced/Non-invention);
G06F19/00 (Core/Invention)
CPC: A61B2017/00203 A61B2017/00477 A61B2017/00482 A61B2017/2825 A61B2017/2929 A61B2017/2932 B25J9/1689 G05B2219/40144 G05B2219/42289 G05B2219/45123 G06F19/3418 G06F19/3481 Y10S901/02 Y10S901/19 Y10S901/21 A61B2017/2829 A61B34/37 A61B34/71 A61B34/74 A61B34/76 A61B90/361 A61B90/98 A61B2034/305 A61B2034/715 A61B2090/031 A61B2090/064 A61B1/00149 G16H40/63 A61B34/30
European: A61B1/00P1 A61B19/22B B25J9/16T4 K61B17/00C6 K61B17/00K2 K61B17/28D4M K61B17/29J2R K61B17/29J6 K61B19/22B10 K61B19/22B16 K61B19/22D K61B19/22D2 K61B19/22J K61B19/22N K61B19/30B K61B19/44H K61B19/46H K61B19/52D S05B219/40144 S05B219/42289 S05B219/45123 S06F19/34A S06F19/34C S06F19/34N

US: 606/130 700/245 700/245P 700/260 700/261 901/19 901/2 901/21



Family:

Publication number	Publication date	Application number	Application date
US2008046122 AA	20080221	US20060535426	20060926
US2013110130 AA	20130502	US20120676083	20121113
US9002518 BB	20150407	US20060535426	20060926
US9014856 BB	20150421	US20120676083	20121113

Priority:

US20030611411 20030630 US20030726795 20031202 US20050238698 20050928
US20050238794 20050928 US20060817931P 20060629 US20060535426 20060926
US20120676083 20121113

Probable Assignee: INTUITIVE SURGICAL OPERATIONS INC

Assignee(s): (std): INTUITIVE SURGICAL INC ; INTUITIVE SURGICAL OPERATIONS ; MANZO SCOTT ; SWARUP NITISH

Assignee(s): INTUITIVE SURGICAL OPERATIONS INC

Inventor(s): (std): MANZO SCOTT ; SWARUP NITISH

Agent(s): PATENT DEPT INTUITIVE SURGICAL INC

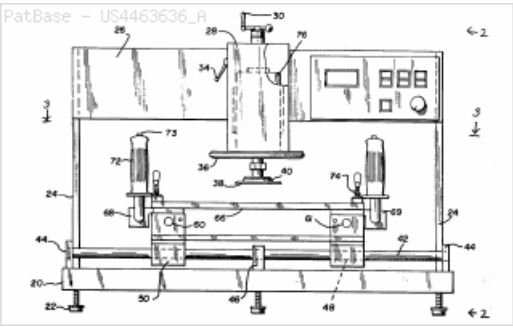
191) Family number: 4447534 (US4463636A)

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Title: HOLDING FIXTURE AND TRIMMER FOR PC BOARDS

Abstract: The trimming apparatus and fixture for holding a PC board prior to and during trimming of an upper surface of the PC board utilizes a trimming blade rotated by a variable speed motor. This apparatus includes X and Y motion mechanism moved by hand grips that are spaced apart and cooperate with push button switches providing a safety control circuit. The X and Y motion mechanism employs linear ball bushings mounted and movable on hardened steel shafts. Removable holding fixtures are employed to hold and retain the PC boards during trimming. One holding fixture is used for PC boards that are not warped and not likely to warp. This fixture holds the PC board on three sides and a quick acting cam clamp is actuated to retain and release a PC board. Another fixture is adapted to hold and retain a PC board that is warped or likely to warp. Vacuum is used with a plurality of standoffs to establish the desired holding plane of this PC board. A quick opening aperture is uncovered to release both negative pressure and the PC board after trimming. A third fixture employs a top plate which is positioned by dowells. On this fixture and in this plate is formed a plurality of receiving openings for PC boards of small and/or irregular size. Vacuum is also employed as well as standoffs. The interior chamber of this fixture is provided with a quick opening lever plate that is manipulated to uncover an aperture and bring the interior of the fixture to atmospheric pressure.

Classifications:
International (IPC 8-9): B23D45/02 B23D45/12 B23D47/04 B27B5/08 B28D1/04 H05K13/00 (Advanced/Invention); B23D45/00 B23D47/00 B27B5/00 B28D1/02 H05K13/00 (Core/Invention)
International (IPC 1-7): B26D1/00
CPC: Y10S83/01 Y10S83/942 H05K13/0061 B23D45/02 B23D45/12 B23D47/045 B27B5/08 B28D1/046 Y10T83/04 Y10T83/626 Y10T83/6544 Y10T83/6563 Y10T83/6572 Y10T83/6579 Y10T83/6608 Y10T83/74 Y10T83/7734
European: B23D45/02 B23D45/12 B23D47/04C B27B5/08 B28D1/04F H05K13/00N
US: 192/131R 269/221 269/254CS 269/73 83/13 83/399 83/409.2 83/412 83/418 83/422 83/435.1 83/435.11 83/445 83/478 83/925R 83/929.2 83/942 83/DIG.1



Family:

Publication number	Publication date	Application number	Application date
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Priority:

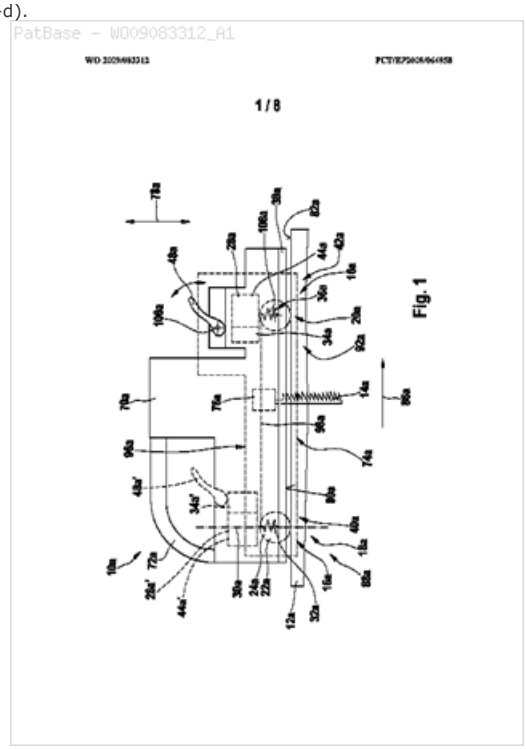
US19820352111 19820225

Probable Assignee: HELLER MARTIN G
Assignee(s): (std): HELLER MARTIN G
Inventor(s): (std): HELLER MARTIN G ; PECHA EDWARD ; RUDDER JOEL ; SMITH DOUGLAS

192) Family number: 43423535 (WO09083312A1)

Title: HAND-HELD MACHINE TOOL, ESPECIALLY FOR A GUIDED TOOL USED FOR MACHINING A WORKPIECE

Abstract: The invention relates to a hand-held machine tool, especially for a guided tool (14a-d) used for machining a workpiece (12a-d). Said machine tool comprises a bearing unit (16a-d) and a lateral guiding unit (18a-d). The bearing unit (16a-d) is at least partly monolithic with the lateral guiding unit (18a-d).
Classifications:
International (IPC 8-9): B23D49/10 B23D49/16 B25F5/00 B25F5/02 B27B9/04 (Advanced/Invention);
B23D49/00 B25F5/00 B27B9/00 (Core/Invention)
CPC: B23D49/105 B25H1/0078 B27B9/04
European: B23D49/10B B25H1/00C5 B27B9/04



Family:

Publication number	Publication date	Application number	Application date
AT516929 E	20110815	AT20080867673T	20081103
CN101903139 A	20101201	CN200880122292	20081103
CN101903139 B	20130410	CN200880122292	20081103
DE102007062261 A1	20090625	DE200710062261	20071221
DE502008004291 D1	20110915	DE200850004291T	20081103
EP2227355 A1	20100915	EP20080867673	20081103
EP2227355 B1	20110720	EP20080867673	20081103
WO09083312 A1	20090709	WO2008EP64858	20081103

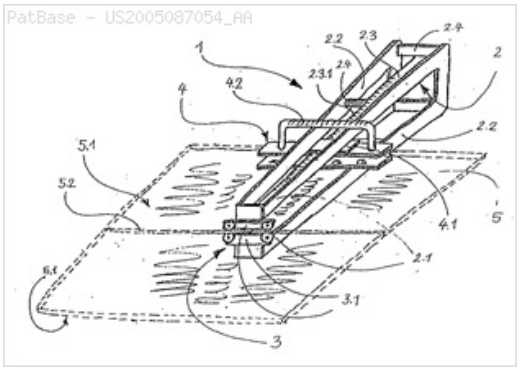
Priority:
DE200710062261 20071221 EP20080867673 20081103 WO2008EP64858 20081103
Probable Assignee: BOSCH GMBH ROBERT
Assignee(s): (std): BOSCH GMBH ROBERT ; SCHNEIDER BETTINA ; SCHNEIDER MARCUS
Assignee(s): ROBERT BOSCH GMBH
Inventor(s): (std): BETTINA SCHNEIDER ; MARCUS SCHNEIDER ; SCHNEIDER BETTINA ; SCHNEIDER MARCUS
Agent(s): ROBERT BOSCH GMBH
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

193) Family number: 28849541 (US2005087054A)

Title: DEVICE FOR CUTTING FLAT, TWO-DIMENSIONAL MATERIALS MADE MOSTLY OF MINERALS, PARTICULARLY GLASS SUCH AS COMPOSITE SAFETY GLASS

Abstract: An apparatus for cutting sheet materials consisting mainly of mineral substances, particularly glass such as laminated safety glass. The apparatus is flexible to handle and to use. In a broader sense, these materials include materials such as ceramic tiles and/or natural stone plates, of which the characteristics do not adversely influence the cutting process and of which the cross-sectional structure comprises several layers including different materials, such as laminated safety glass.
Classifications:
International (IPC 8-9): B26B B26B29/06 B28D1/22 C03B C03B33/00 C03B33/02 C03B33/023 C03B33/07 C03B33/12 (Advanced/Invention);

C03B33/02 C03B33/07 C03B33/12 (Advanced/Non-invention);
B28D1/22 C03B33/00 (Core/Invention)
International (IPC 1-7): B26B29/06 B26D5/08 B28D1/22 C03B33/00 C03B33/02 C03B33/023 C03B33/04 C03B33/07 C03B33/12
CPC: Y10T83/8822 C03B33/078 C03B33/12
European: C03B33/07D2 C03B33/12
US: 83/614 83/614P



Family:

Publication number	Publication date	Application number	Application date
AT301619 E	20050815	AT20030706221T	20030114
AU2003208257 AA	20030730	AU20030208257	20030114
AU2003208257 BB	20070426	AU20030208257	20030114
BRPI0307175 A	20041207	BR2003PI07175	20030114
CA2473389 AA	20040715	CA20032473389	20030114
CN1617838 A	20050518	CN20038002296	20030114
DE10201253 C1	20030313	DE20021001253	20020115
DE10390071 D2	20041209	DE20031090071	20030114
DE50300954 D1	20050915	DE20035000954	20030114
DK1470086 T3	20051219	DK20030706221T	20030114
EP1470086 A2	20041027	EP20030706221	20030114
EP1470086 B1	20050810	EP20030706221	20030114
ES2248732 T3	20060316	ES20030706221T	20030114
HK1078304 A1	20060310	HK20050110238	20051116
HK1078304 A3	20060310	HK20050110238	20051116
IN00445MN2004 A	20050218	IN2004MN00445	20040816
JP2005514316 T2	20050519	JP20030559938T	20030114
KR20040078668 A	20040910	KR20047011011	20030114
NO20043409 A	20040920	NO20040003409	20040816
NO20043409 L	20040920	NO20040003409	20040816
RU2004122647 A	20050627	RU20040122647	20030114
US2005087054 AA	20050428	US20040501481	20041214
WO03059829 A2	20030724	WO2003DE00084	20030114
WO03059829 A3	20030912	WO2003DE00084	20030114
ZA200406485 A	20050617	ZA20040006485	20040816

Priority:

DE20021001253 20020115 DE20031090071 20030114 DE20035000954 20030114
WO2003DE00084 20030114 WO2003DE000084 20030114

Probable Assignee: REICHEL FRANK

Assignee(s): (std)**:** FRANK REICHEL ; REICHEL FRANK

Inventor(s): (std)**:** FRANK REICHEL ; KASSNER KLAUS ; REICHEL FRANK

Inventor(s): KLAUS KASSNER

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; G RONALD BELL AND ASSOCIATES; CLT PATENT AND TRADEMARK HK LTD; BIRCH STEWART KOLASCH AND BIRCH

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

194) Family number: 69108549 (WO18063100A3)

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Title: SYSTEM FOR PLACING OBJECTS ON A SURFACE AND METHOD THEREOF

Abstract: A system for placing objects on a surface. The system may include a base (110), a robotic arm (120) coupled, at an end thereof, to the base (110), an end effector (130) coupled to the other end of the robotic arm (120). The end effector (130) may be configured for releaseably coupling to an object (101) to be placed on the surface. The system may further include one or more sensor units (150) on a sensor frame. The one or more sensor units (150) may be configured for sensing a two-dimensional profile data including at least two two- dimensional profiles together comprising at least three boundary portions of the object (101) to be placed and at least three boundary portions of objects on the surface. At least two of the three boundary portions of the object to be placed may be from substantially non- parallel sides. At least two of the three boundary portions of the objects on the surface may be from substantially non-parallel sides. The system may further include a processor configured to determine at least three degrees of freedom of the object (101) to be placed with respect to the sensor frame and six degrees of freedom of the sensor frame with respect to the objects on the surface in a three- dimensional space for determining a current pose of the object (101) to be placed with respect to the objects on the surface based on the two-dimensional profile data. Further, the system may be configured to place the object (101) based on differences between the current pose and a desired pose of the object to be placed determined from a model of objects on the surface in the three-dimensional space.
Classifications:
International (IPC 8-9): B25J19/02 E04F21/18 E04F21/22 G01B11/25 (Advanced/Invention)
CPC: E04F21/22 G01B11/25 E04F21/1872 E04F21/023 B25J5/007 B25J15/0616 B25J19/023

PatBase - WO18063100_A2

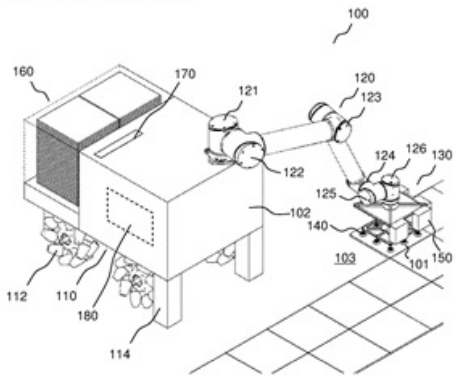


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
WO18063100 A2	20180405	WO2017SG50495	20171002
WO18063100 A3	20180802	WO2017SG50495	20171002

Priority:

SG20161008187 20160930

Probable Assignee: ETH SINGAPORE SEC LTD

Assignee(s): (std)**:** ETH SINGAPORE SEC LTD

Inventor(s): (std)**:** ERCAN SELEN ; FURRER JONAS MICHAEL ; GRAMAZIO FABIO MATTEO ; KOHLER MATTHIAS

Agent(s): VIERING JENTSCHURA AND PARTNER LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

195) Family number: 8551 (BRPI9401179A)

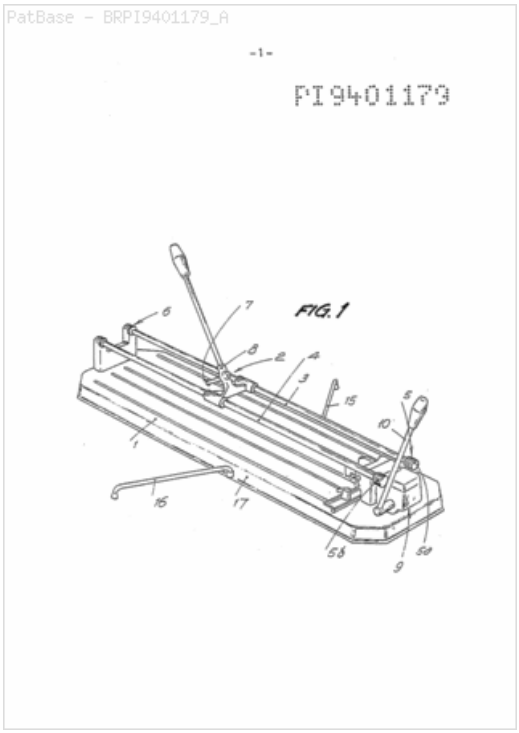
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Title: Maquina para o corte e separacao de pecas especialmente pecas ceramicas Machine for cutting and separation of parts specially ceramics parts (Machine translation)

Abstract: Source: BRPI9401179A [PT] [Source: Claim 1] 1. Maquina para o corte e separacao de pecas, especialmente pecas ceramicas, a qual compreende uma su- perficie de apoio (1) da peca, um carro cortador (2) que desliza ao longo de guias (3, 4) solidarios dos suportes (5, 6) e e provido com uma ferramenta (7) montada em uma cabeca (8) articulada no carro cortador (2) e deslocavel por um plano substancialmente perpendicular, a superficie de apoio (1), e um dispositivo separador (9) acionado por uma alavanca manual (10), riscando-se uma linha na peca quando a ferramenta de corte (7) entra em contato com a peca, e o carro (2) e deslocado ao longo dos guias (3, 4) e as pecas sao separadas pela linha previamente riscada ao ser acionada a alavanca manual (10) do dispositivo sepa- rador (9), caracterizada pelo fato de que o dispositivo separador (9) compreende um par de bracos (11, 12)"articu- lados em uma carcaca comum (13), um braco superior (12) formado por duas alavancas (12a, 12b), cujas extremidades ficam situadas em cima da superficie de apoio (1) da peca, e um braco inferior (11) situado debaixo da dita superfi- cie, cuja extremidade fica situada debaixo da superficie da peca, sendo que o braco inferior (11) e deslocado por um plano que coincide substancialmente com o plano perpendicular a superficie de apoio (1), e o dito dispositivo forma um bloco independente montado sobre a superficie de apoio (1) por dispositivos de fixacao imo- veis.

Machine translation: [Source: Claim 1] 1. Machine for cutting and separation of parts, especially ceramic parts, which comprises a su-perficie (1) of the peca, a car cutter (2) sliding along guides (3, 4) solidarios brackets (5, 6) and provided with a tool (7) mounted on a head (8) articulated in the car (2) cutter and deslocavel by a substantially perpendicular plan the support surface (1), and a separator device (9) powered by a hand lever (10), by scratching a line on sin when the cutting tool (7) comes into contact with the piece, and the car (2) and shifted over the tabs (3, 4) and the parts are separated by the previously scratched line to be thrown the hand lever (10) sepa-device plug (9) characterized by the fact that the separator device (9) comprises a pair of arms (11, 12) "timing of subsequent jour-sides in a common skeleton (13), upper arm (12) formed by two levers (12a, 12b), whose ends are located on top of the surface (1) of the piece, and a lower arm (11) located under the surface-cie said, whose end is located under the surface of the peca the lower arm (11) and offset by a plan that coincides substantially with the plane perpendicular to the surface (1), and the said device forms an independent block mounted on the support surface (1) imo-fixation devices.

Classifications:
International (IPC 8-9): B26D1/147 (Advanced/Invention);
B26D1/01 (Core/Invention)
International (IPC 1-7): B26D1/147



Family:

Publication number	Publication date	Application number	Application date
BRPI9401179 A	19951017	BR1994PI01179	19940316

Priority:

BR1994PI01179 19940316

Probable Assignee: BOADA GERMANS SA

Assignee(s): (std)**:** BOADA GERMANS SA

Assignee(s): GERMANS BOADA S A

Inventor(s): (std)**:** TORRENTS I COMAS JOSEP

Inventor(s): I COMAS JOSEP TORRENTS

196) Family number: 61544557 (WO16013985A1)

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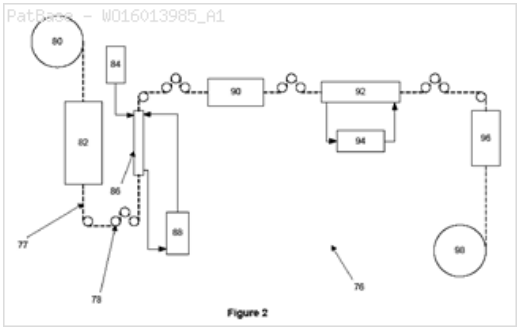
Title: A WIRE COATING APPARATUS, SYSTEM AND METHOD

Abstract: A wire coating device comprising: a chamber having an electrolytic fluid therein, said chamber arranged to allow the passage of a wire through said chamber; a magnetising device for applying a magnetic field to said wire; at least one anodic electrode within said chamber; a cathodic electrical connection in electrical communication with said wire; a grit supply for introducing a supply of metal coated grit into the chamber; wherein the wire is arranged to magnetically attract the metal coated grit, with the anodic electrode and cathodic wire arranged to electrolytically apply a metal coating to said wire to encase said metal coated grit.

Classifications:

International (IPC 8-9): B21F23/00 B24D11/00 B26D1/547 B65H57/14 B65H59/38 C25D15/02 C25D5/00 C25D7/06 (Advanced/Invention)

CPC: B26D1/547 B65H57/04 B65H59/36 B65H2701/36 B65H59/387 C25D3/12 C25D5/12 C25D5/34 C25D5/54 C25D7/0607 C25D15/00 C25D21/18



Family:

Publication number	Publication date	Application number	Application date
CN107208302 A	20170926	CN201580051347	20150723
SG10201900612R A1	20190227	SG20191000612	20150723
SG11201700371T A1	20170227	SG20171100371	20150723
WO16013985 A1	20160128	WO2015SG50232	20150723

Priority:

SG20141004331 20140723 SG20171100371 20150723 WO2015SG50232 20150723

Probable Assignee: JCS GROUP PTE LTD

Assignee(s): (std)**:** JCS GROUP PTE LTD

Inventor(s): (std)**:** KRUEGER TREY ; NIJHOF EDWIN ; YEO JASON ; YEO JASON HOCK HUAT

Agent(s): MARKS AND CLERK SINGAPORE LLP; ENGLISH MATTHEW

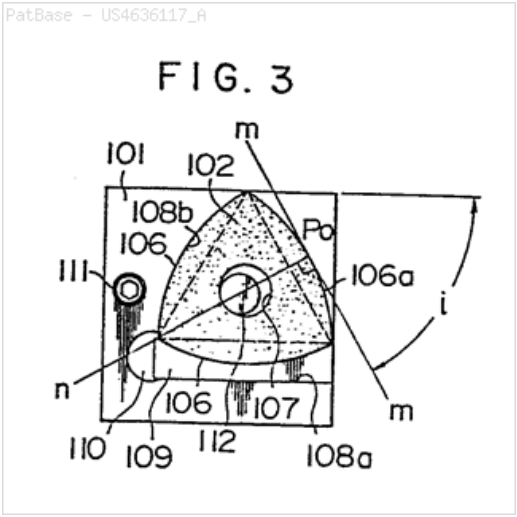
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

197) Family number: 5377559 (US4636117A)

Title: CUTTING TOOL

Abstract: An oblique edged cutting tool comprises a holder at the front end of which is formed an inclined surface on which a flat tip is detachably mounted by means of an attaching member. The tip to be used is of an indexable throw-away type having an outer configuration radially symmetrical about its geometric center and the tip is provided with a straight or curved cutting edge on the outer periphery thereof. The tip is attached to the holder of the oblique edged cutting tool so that the upper and lower flat surface of the tip is positioned in parallel or normal to a surface of a work to be machined.

Classifications:
International (IPC 8-9): B23B27/14 B23B27/16 (Advanced/Invention); B23B27/14 B23B27/16 (Core/Invention)
International (IPC 1-7): B23B1/00 B23B27/00 B23B27/16 B23D27/16 B26D1/00
CPC: Y10T82/10 Y10T407/1964 Y10T407/2276 Y10T407/23 B23B27/1622 B23B2200/0461 B23B2200/0476 B23B2200/049 B23B2200/0495 B23B2270/14
European: B23B27/16C4 L23B200/04G L23B200/04I1 L23B200/04L L23B200/04L1 L23B270/14
US: 407/104 407/113 407/62 82/1.11 82/1C



Family:

Publication number	Publication date	Application number	Application date
DE3571212 D1	19890803	DE19853571212	19850409
EP0160850 A1	19851113	EP19850104243	19850409
EP0160850 B1	19890628	EP19850104243	19850409
JP1727701 C3	19930119	JP19840073570	19840412
JP4000761 B4	19920108	JP19840073570	19840412
JP60217005 A2	19851030	JP19840073570	19840412
KR19850007390 A	19851204	KR19850002291	19850404
KR880001405 B1	19880801	KR19850002291	19850404
US4636117 A	19870113	US19840657126	19841003
US4692070 A	19870908	US19860900410	19860826

Priority:
JP19840073570 19840412 US19840657126 19841003

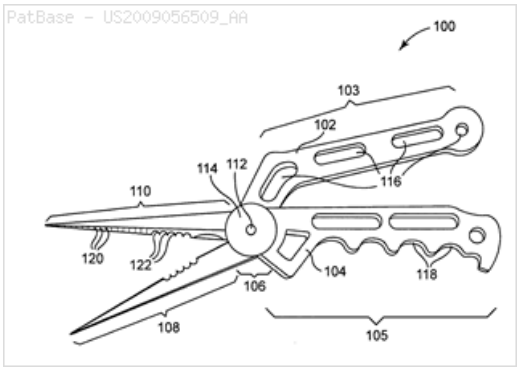
Probable Assignee: TOSHIBA KK
Assignee(s): (std): TOSHIBA CO LTD ; TOSHIBA KK
Assignee(s): KABUSHIKI KAISHA TOSHIBA ; TOKYO SHIBAURA ELECTRIC CO
Inventor(s): (std): SHIKADA HIROSHI ; SHIKATA HIROSHI ; SIGADA HIROSI
Designated states: CH DE FR GB IT LI SE

198) Family number: 42974561 (US2009056509A)

Title: PLIERS MADE OF AN IN SITU COMPOSITE OF BULK-SOLIDIFYING AMORPHOUS ALLOY

Abstract: Pliers comprising a composite material comprising: individual regions of a ductile metal phase distributed in a substantially continuous amorphous metal alloy matrix are disclosed. Pliers comprising a first lever arm and a second lever arm that is complementary to the first lever arm, wherein the two arms are pivotally attached, and at least a portion of at least one of the two arms comprises the composite material are disclosed. A method of forming pliers is disclosed.

Classifications:
International (IPC 8-9): B21K5/18 B22D21/00 B25B7/00 C22C45/10 (Advanced/Invention); B21K5/00 B22D21/00 B25B7/00 C22C45/00 (Core/Invention)
CPC: A01K97/00 B25B7/00 C22C16/00 C22C45/10
European: A01K97/00 B25B7/00 C22C16/00 C22C45/10
US: 148/403 148/538 76/119 81/342 81/427.5



Family:

Publication number	Publication date	Application number	Application date
US2009056509 AA	20090305	US20080218210	20080711

Priority:

US20070959127P 20070711 US20080218210 20080711

Probable Assignee: ANDERSON MARK C

Assignee(s): (std)**:** ANDERSON MARK C

Inventor(s): (std)**:** ANDERSON MARK C

Agent(s): KAGAN BINDER PLLC

199) Family number: 71534563 (EP3388214A1)

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Title: NIPPERS FOR CUTTING SLABS OR TILES PINCES POUR DECOUPER DES DALLES OU DES TUILES

Abstract: Engraving nippers for tiles or slabs made of hard material are disclosed, comprising a pair of mutually hinged lever pieces (1a, 1b), provided on two opposite sides of an hinge axis (2) respectively with a handle portion (1a', 1b') and an end head (1a", 1b") carrying cutting elements in the form of cutting wheels (4a, 4b) with a perimeter cutting edge, said wheels (4a, 4b) being fixed parallel to a fastening land which is perpendicular to a lying plane of said pair of lever pieces (1a, 1b), wherein said end heads (1a", 1b") are L-shaped, so as to define said fastening lands arranged cantilevered towards a side of said lying plane, and said end heads (1a", 1b") have opposing projections (5a, 5b) which extend according to a direction joining centres of said wheels (4a, 4b), up to a mutual distance shortly greater than the distance between said cutting edges of the wheels (4a, 4b).

Classifications:

International (IPC 8-9): B26D1/00 B26D1/24 B26D3/08 B28D1/22 B28D7/00 B28D7/04 (Advanced/Invention)

CPC: B26D3/08 B26D1/24 B26D2001/002 B28D1/22 B28D1/226 B28D7/00 B28D7/04

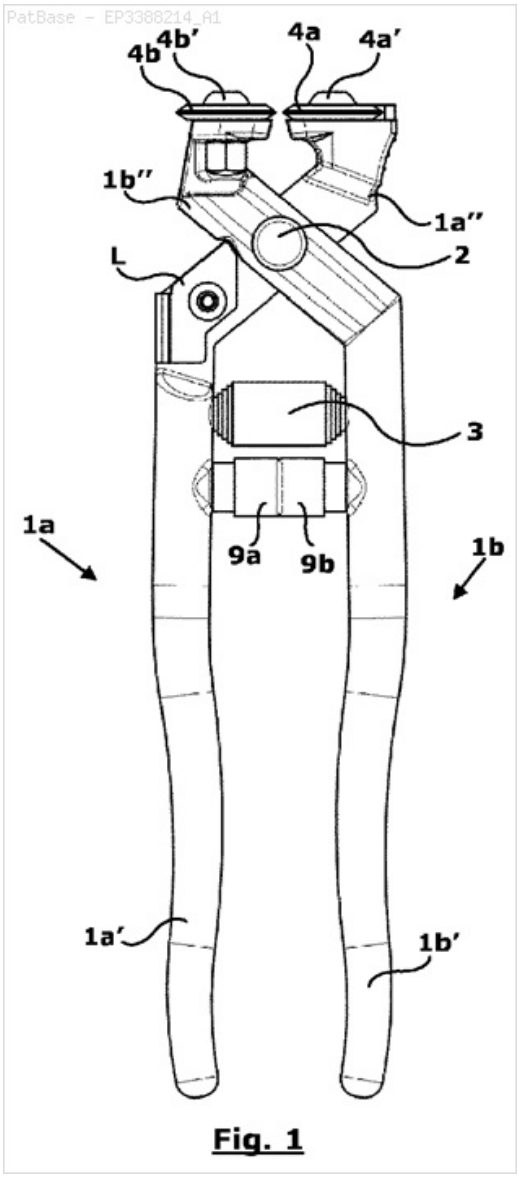


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
CN108724479 A	20181102	CN201810325440	20180412
EP3388214 A1	20181017	EP20180166326	20180409
IT201700041610 A1	20181013	IT201710000041610	20170413

Priority:

IT201710000041610 20170413

Probable Assignee: BREVETTI MONTOLIT S P A

Assignee(s): (std)**:** BREVETTI MONTOLIT S P A

Assignee(s): BREVETTI MONTOLIT SPA

Inventor(s): (std)**:** MONTOLI VINCENZO ; CASARTELLI LUIGI

Agent(s): FAGGIONI CARLO MARIA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

200) Family number: 29528565 (DE3205899A1)

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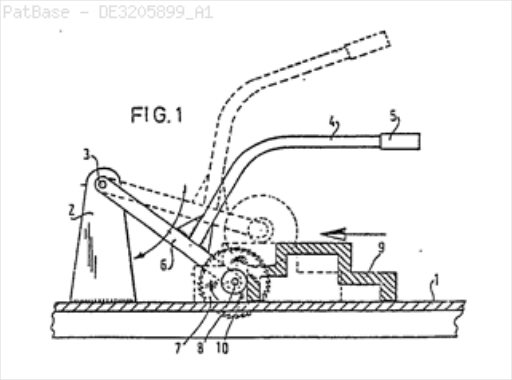
Title: Machine for cutting through or making a groove in the surface of a transversely profiled workpiece

Abstract: The machine for cutting through or making a groove in the surface of a workpiece, having a cross-section in the form of a smoothly bent strip and/or a strip bent in an angular manner or a cross-section of which only the outline is locally bent smoothly or bent in an angular manner, in a transverse or oblique direction relative to the longitudinal axis of the workpiece has a rotating cutting tool, e.g. a circular saw, a grinding disc or a milling cutter. The machine has a fixed table, means for driving the tool, a rotatable holder for the tool, which holder is arranged to be movable with regard to the table, as well as means for the relative movement of the tool and the workpiece. The tool holder is arranged on a support in such a way that it can be rotated about the axis of rotation of the tool. The support can be moved independently with regard to the table even during operation in at least two directions directed at right angles to one another and lying in a plane intersecting the longitudinal axis of the workpiece. There is at least one member for scanning the profile of the workpiece. Furthermore, there are means, controlled by this scanning member, for moving the tool through the workpiece at a certain depth from the profiled surface.

Classifications:

International (IPC 8-9): B23C3/34 B23D45/00 B23D45/04 B23D47/08 B23Q15/013 B23Q35/10 B24B27/06 B26F1/38 B27B5/20

B27B5/32 B27F1/02 (Advanced/Invention);
B23C3/00 B23D45/00 B23D47/00 B23Q15/007 B23Q35/00 B24B27/06 B26F1/38 B27B5/00 B27F1/00 (Core/Invention)
International (IPC 1-7): B23C3/34 B23D45/04 B24B27/06 B26F1/38 B27B5/20 B27F1/02 B29C17/10
CPC: B23D45/003 B23D45/042 B23D47/08 B23Q15/013 B23Q35/104 B27B5/32
European: B23D45/00B B23D45/04A B23D47/08 B23Q15/013 B23Q35/10B2C B27B5/32



Family:

Publication number	Publication date	Application number	Application date
DE3205899 A1	19830915	DE19823205899	19820218
DE3205899 C2	19851031	DE19823205899	19820218
DE8121986 U1	19811210	DE19810021986U	19810727

Priority:
DE19810021986U 19810727 DE19823205899 19820218

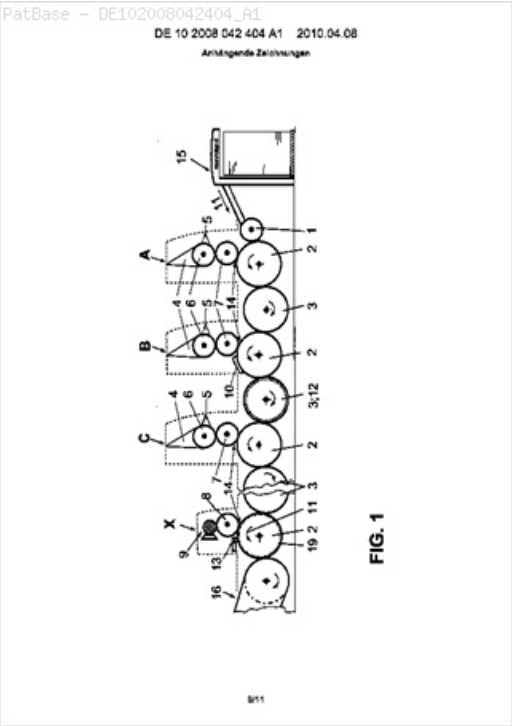
Probable Assignee: KESSEL JOHANNES G VAN
Assignee(s): (std): KESSEL JOHANNES G VAN
Assignee(s): KESSEL JOHANNES G VAN 7161 NEEDE NL ; KESSEL JOHANNES G VAN NEEDE NL
Inventor(s): (std): KESSEL JOHANNES G VAN
Inventor(s): KESSEL JOHANNES G VAN NEEDE NL ; G VAN KESSEL JOHANNES

201) Family number: 44859568 (DE102008042404B4)

Title: Druck- oder Beschichtungsmaschine mit einer Einrichtung zum Laengsschneiden von Bogenmaterial

Abstract: Source: DE102008042404B4 [DE] Druck- oder Beschichtungsmaschine mit einer nach einem Druck-/Lackspalt angeordneten Einrichtung zum Laengsschneiden von Bogenmaterial umfassend wenigstens einen, einen Zylinderkanal aufweisenden, das Bogenmaterial transportierenden Bogenfuehrungszylinder und eine in einer Vertiefung des Bogenfuehrungszylinders angeordnete Schneidunterlage, wobei die Schneidunterlage mit einem dem Bogenfuehrungszylinder zugeordneten Schneidwerkzeug in Wirkverbindung bringbar ist, dadurch gekennzeichnet, dass die Vertiefung durch wenigstens eine in Umfangsrichtung in die Mantelflaeche des Bogenfuehrungszylinders (2) integrierte Nut (19) gebildet ist und in jeder Nut (19) eine Schneidunterlage (18) angeordnet ist, dass wenigstens eine Funktionsflaeche der Nut (19) eine Schicht (24) aus einem Beschichtungswerkstoff aufweist, dass die Oberflaeche jeder Schneidunterlage (18) zur Mantelflaeche des Bogenfuehrungszylinders (2) fluchtend angeordnet ist und dass bei einem Bogenfuehrungszylinder (2) mit einem Zylinderkanal (22) die Nut (19) in diesem Zylinderkanal (22) beginnt und endet oder dass bei einem Bogenfuehrungszylinder (2) mit mehreren Zylinderkanaelen (22) jede Nut (19) in einem Zylinderkanal (22) beginnt und in einem nachfolgenden Zylinderkanal (22) endet.

Classifications:
International (IPC 8-9): B26D1/22 B26D7/20 B41F13/56 B41F13/58 (Advanced/Invention)
CPC: B26D1/225 B26D7/20 B26D2007/202 B41F13/58 B65H35/02 B65H2801/21
European: B26D1/22B B26D7/20 B41F13/58 B65H35/02 L26D7/20A L65H801/21



Family:

Publication number	Publication date	Application number	Application date
DE102008042404 A1	20100408	DE200810042404	20080926

DE102008042404 B4	20150603	DE200810042404	20080926

Priority:

DE200810042404 20080926

Probable Assignee: MANROLAND AG

Assignee(s): (std): MANROLAND AG ; MANROLAND SHEETFED GMBH

Inventor(s): (std): GOETZ THOMAS ; MOORKAMP CARL PHILIPP ; SCHUETZ HANS WILLY

202) Family number: 56296578 (US2014114327A)

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Title: SURGEON FEEDBACK SENSING AND DISPLAY METHODS

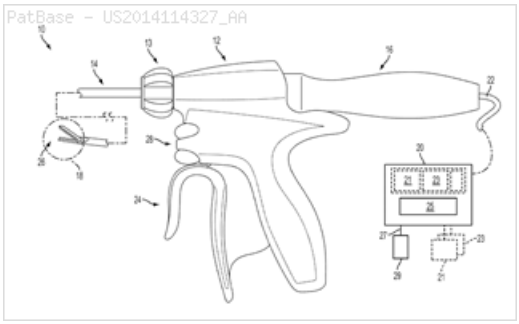
Abstract: Various embodiments described herein are directed to surgical instruments with visual feedback. In one embodiment, a surgical instrument with visual feedback comprises an end effector. The end effector has a first jaw member and a second jaw member. At least one sensor is coupled to the end effector. The at least one sensor is configured convert at least one state of the end effector to a feedback signal. The feedback signal is corresponding to the at least one state of the end effector. The feedback signal may be transmitted to a display to render a visual representation of the at least one state of the end effector. The surgical instrument may further comprise an instrument mounting portion to mount to a robotic surgical system. The instrument mounting portion comprises an interface to mechanically and electrically interface to the surgical instrument.

Classifications:

International (IPC 8-9): A61B17/29 A61B17/32 A61B18/00 A61B18/04 A61B18/14 A61B19/00 A61B34/00 A61B34/30 A61B34/37 B25J3/00 (Advanced/Invention); A61B17/00 A61B34/10 A61B90/00 A61B90/50 (Advanced/Non-invention)

CPC: A61B17/320092 A61B18/1442 A61B18/1445 A61B34/25 A61B34/30 A61B90/06 A61B90/37 A61B2017/00026 A61B2018/1452 A61B2018/1455 A61B2034/107 A61B2090/032 A61B2090/064 A61B2090/065 A61B2090/0807 A61B2090/502

US: 606/130



Family:

Publication number	Publication date	Application number	Application date
BR112015009024 A2	20170704	BR20151109024	20131009
CN104736090 A	20150624	CN201380054947	20131009
EP2908757 A2	20150826	EP20130782894	20131009
IN03208DN2015 A	20160603	IN2015DN03208	20150416
JP2016502416 T2	20160128	JP20150537733T	20131009
JP6328647 B2	20180523	JP20150537733T	20131009
US2014114327 AA	20140424	US20120657315	20121022
US10201365 BB	20190212	US20120657315	20121022
WO14066042 A2	20140501	WO2013US64022	20131009
WO14066042 A3	20140807	WO2013US64022	20131009

Priority:

US20120657315 20121022 WO2013US64022 20131009

Probable Assignee: ETHICON LLC

Assignee(s): (std): ETHICON ENDO SURGERY INC ; ETHICON LLC

Assignee(s): ETHICON ENDO SURGERY LLC

Inventor(s): (std): GREGORY A TREES ; GREGORY W JOHNSON ; JOHNSON GREGORY W ; JONATHAN T BATROSS ; KRISTEN T SHOGER ; MEGAN A O CONNOR ; MEGAN A OCONNOR ; MICHAEL J ANDREYKO ; MOLITOR NICHOLAS G ; NICHOLAS G MOLITOR ; NORVELL DAVID K ; O CONNOR MEGAN A ; RANDOLPH STEWART ; SHAWN C SNYDER ; SHOGER KRISTEN T ; SNYDER SHAWN C ; STEWART RANDOLPH ; TREES GREGORY A ; ANDREYKO MICHAEL J ; BATROSS JONATHAN T ; BOUDREAUX CHAD P ; CHAD P BOUDREAUX ; DAVID K NORVELL

Inventor(s): ETHICON ENDO SURGERY INC

Agent(s): CARPMAELS AND RANSFORD LLP; KATO MASANOBU; JOHNSON PHILIP S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

203) Family number: 19183582 (GB2021036A)

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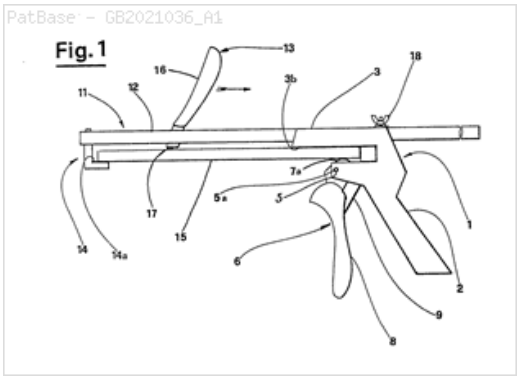
Title: A Tool for cutting tiles

Abstract: A tool (1) for cutting tiles comprises means for holding a tile and progressively producing breakage of the tile (15) along a predetermined direction with respect to the tile (15). These means comprise three holders, two of which holders (3) are for location on one surface of the tile and the other on the opposed surface of the tile, and a guide (11). The latter other holder comprises the blade (7a) of a knife which is rotatable with respect to the said two holders (3) and which is operated by means of a lever (6) pivoted to a handle (2) of the tool (1) to which handle (2) the two holders (3) are connected. The guide (11) is connected to the two holders (3) and is able to guide the movement of a cutter (13) for incising said one surface of the tile (15). A support (14) for one edge of the tile (15) is provided on the guide (11) at an adjustable distance from said two holders (3) so that different sizes of tile (15) can be accommodated.

Classifications:

International (IPC 8-9): B28D1/22 (Advanced/Invention); B28D1/22 (Core/Invention)

International (IPC 1-7): B26B B28D1/22
CPC: B28D1/225
European: B28D1/22D



Family:

Publication number	Publication date	Application number	Application date
DE7908055 U1	19790705	DE19790008055U	19790322
GB2021036 A1	19791128	GB19790016650	19790514
IT1103961 A	19851014	IT19780040078	19780517
IT7840078 A0	19780517	IT19780040078	19780517
JP55044889 A2	19800329	JP19790059218	19790516

Priority:
IT19780040078 19780517

Probable Assignee: MIRCO RAIMONDI
Assignee(s): (std): DEITA REIMONDEI MIRUKO ; MIRCO RAIMONDI ; MIRCO RAIMONDI FA ; RAIMONDI MIRCO
Assignee(s): MIRCO RAIMONDI MODENA ITALIEN FA ; FA MIRCO RAIMONDI MODENA ITALIEN
Inventor(s): (std): REIMONDEI MIRUKO

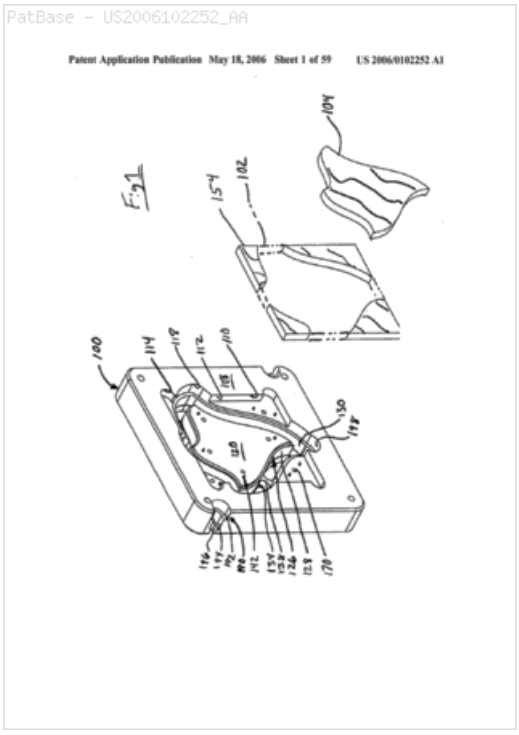
204) Family number: 33002586 (US2006102252A)

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Title: TILES AND APPARATUS, SYSTEM AND METHOD FOR FABRICATING TILES AND TILE PATTERNS

Abstract: A router template for fabricating a contoured tile from a workpiece is provided. The router template includes a body that defines a cavity in which a nest is formed for retaining a workpiece during a cutting operation. A bearing path is defined within the body that engages a bearing of the router bit to guide the workpiece relative to the router bit. A cutting path is formed within the body to provide clearance within the body for a rotary cutting portion of the router bit. The cutting path and bearing path are aligned with each other and correspond to the desired size and contour of the tile. A method of cutting a contoured tile by following a template is also disclosed.

Classifications:
International (IPC 8-9): B26D7/18 B27C5/00 B27C9/00 B27M1/08 B27M3/00 (Advanced/Invention);
B27C5/00 B27C9/00 B27M1/00 B27M3/00 (Core/Invention)
CPC: Y10T83/889 B44C1/26 B27C5/06 B27M3/04 B44C3/12
European: B27C5/06 B27M3/04 B27M3/06 B44C1/26 B44C3/12
US: 144/144.51 144/144.510S 144/145.1 144/286.5 144/372 33/562 83/648 83/648P



Family:

Publication number	Publication date	Application number	Application date
US2006102252 AA	20060518	US20050274986	20051116
US2010307310 AA	20101209	US20100784824	20100521
US7721776 BB	20100525	US20050274986	20051116

Priority:
US20040628426P 20041116 US20050274986 20051116 US20100784824 20100521

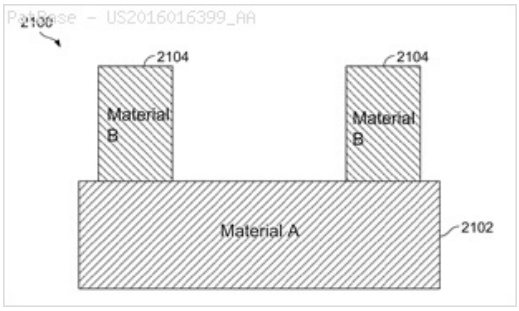
Probable Assignee: JUSTIN LOUIS K

Assignee(s): (std)**:** JUSTIN LOUIS K
Inventor(s): (std)**:** JUSTIN LOUIS K
Inventor(s): JUSTIN LOUIS
Agent(s): BROOKS KUSHMAN PC

205) Family number: 61451589 (US2016016399A)

Title: APPARATUS AND METHODS FOR MICRO-TRANSFER-PRINTING

Abstract: In an aspect, a system and method for assembling a semiconductor device on a receiving surface of a destination substrate is disclosed. In another aspect, a system and method for assembling a semiconductor device on a destination substrate with topographic features is disclosed. In another aspect, a gravity-assisted separation system and method for printing semiconductor device is disclosed. In another aspect, various features of a transfer device for printing semiconductor devices are disclosed.



Classifications:
International (IPC 8-9): B25J15/00 B41F16/00 B41K3/04 B41K3/12 H01L21/02 H01L21/30 H01L21/3065 H01L21/467 H01L21/48 H01L21/52 H01L21/56 H01L21/58 H01L21/67 H01L21/683 H01L21/98 H01L23/00 H01L23/29 H01L23/31 H01L25/00 H01L27/12 H01L31/18 (Advanced/Invention)
CPC: H01L21/52 H01L21/568 H01L21/683 H01L21/6835 H01L21/565 H01L21/67103 H01L2221/68381 H01L2221/68318 H01L2221/68368 H01L2221/68377 H01L2924/10253 H01L2924/10329 H01L2924/1032 H01L2924/10335 H01L2924/10337 H01L2924/10336 H01L2924/10328 H01L2924/10332 H01L2924/10338 H01L2924/1034 H01L23/3171 H01L24/75 H01L25/50 H01L31/1892 H01L2224/83894 H01L2221/68354 B41F16/0046 B41F16/0073 H01L2224/32225 H01L2224/32245 H01L2224/75315 H01L2224/7598 H01L2224/83001 H01L2224/83011 H01L2224/83013 H01L2224/83024 H01L2224/832 H01L2224/83895 H01L23/293 B25J15/00 B41F16/00 H01L24/83 H01L21/3065 B41F16/006 B41K3/04 B41K3/12 H01L2224/83203 H01L2224/97 H01L2224/95001 H01L24/97 H01L2224/2781
US: 1/1 101/217 101/287 294/213 438/106 438/121 438/124 438/125 438/126 438/127

Family:

Publication number	Publication date	Application number	Application date
CN106796911 A	20170531	CN201580039312	20150720
EP3170197 A2	20170524	EP20150747992	20150720
IN201717004332 A	20170428	IN201717004332	20170206
JP2017524250 T2	20170824	JP20170502984T	20150720
JP6453437 B2	20190116	JP20170502984T	20150720
KR20170063528 A	20170608	KR20177004506	20150720
TW201612991 A	20160401	TW20150123504	20150720
US2016016399 AA	20160121	US20150804047	20150720
US2016020120 AA	20160121	US20150803997	20150720
US2016020127 AA	20160121	US20150804077	20150720
US2016020130 AA	20160121	US20150803980	20150720
US2016020131 AA	20160121	US20150804031	20150720
US2017103964 AA	20170413	US20160387389	20161221
US2017207193 AA	20170720	US20170417780	20170127
US2018001614 AA	20180104	US20170705755	20170915
US9358775 BB	20160607	US20150803980	20150720
US9434150 BB	20160906	US20150803997	20150720
US9550353 BB	20170124	US20150804047	20150720
US10252514 BB	20190409	US20160387389	20161221
WO16012409 A2	20160128	WO2015EP66566	20150720
WO16012409 A3	20160324	WO2015EP66566	20150720

Priority:

US20140026694P 20140720 US20140027166P 20140721 US20150803980 20150720
US20150804047 20150720 US20150803997 20150720 US20150804077 20150720
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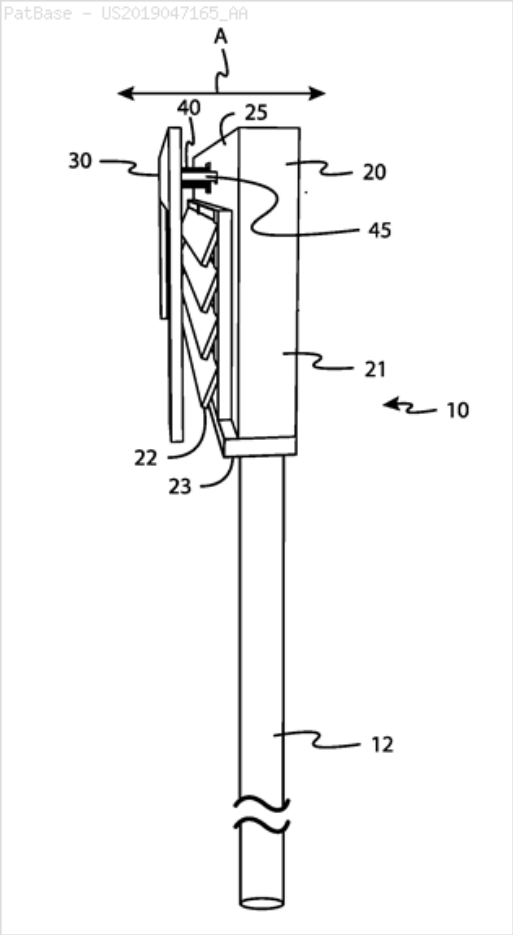
Probable Assignee: X CELEPRINT LTD
Assignee(s): (std)**:** CELEPRINT LTD X ; X CELEPRINT LTD
Inventor(s): (std)**:** BOWER CHRISTOPHER ; MEITL MATTHEW ; GOMEZ DAVID ; KNEEBURG DAVID ; BONAFEDE SALVATORE ; BOWER CHRISTOPHER ANDREW ; COK RONALD S
Agent(s): KIRKHAM NICHOLAS ANDREW; WILLIAM R; CHOATE HALL AND STEWART LLP; WILLIAM; HAULBROOK WILLIAM R; SCHMITT MICHAEL D; KIRKHAM NICHOLAS ET AL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

206) Family number: 66646590 (US2019047165A)

Title: ADJUSTABLE BODY SHAVER, SYSTEM AND METHOD

Abstract: The present application is directed to a hand held wet body shaver. The body shaver includes a razor assembly with one or more cutting edges. The razor assembly is adjustable amongst a plurality of fixed settings, each setting dictating the usable length of the one or more cutting edges. The razor assembly is operationally configured maintain a desired alignment amongst its component parts at each fixed setting. The razor assembly is effective for shaving and trimming hair

to various desired lengths.
Classifications:
International (IPC 8-9): B26B21/22 B26B21/40 B26B21/42 (Advanced/Invention)
CPC: B26B21/4081 B26B21/222 B26B21/42 B26B21/4062



Family:

Publication number	Publication date	Application number	Application date
CA3014290 AA	20180810	CA20173014290	20170210
EP3414062 A1	20181219	EP20170712819	20170210
US2019047165 AA	20190214	US20170077412	20170210
WO17137849 A1	20170817	WO2017IB00219	20170210

Priority:
US20160294429P 20160212 US20170077412 20170210 WO2017IB00219 20170210

Probable Assignee: GEGG CHRISTOPHER JOSEPH

Assignee(s): (std): GEGG CHRISTOPHER JOSEPH ; GEGG PETER ALEXANDER

Inventor(s): (std): GEGG PETER ALEXANDER ; GEGG CHRISTOPHER JOSEPH

Agent(s): SMITHS IP; POSKETT OLIVER JAMES

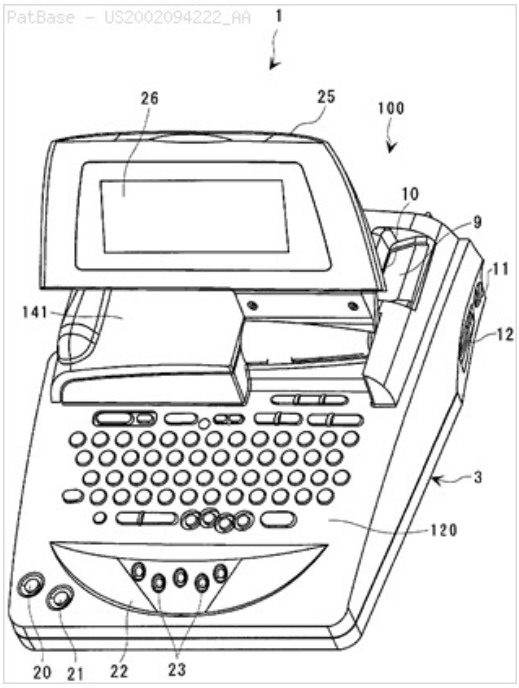
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207) Family number: 28228592 (US2002094222A)

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Title: TAPE PRINTING APPARATUS

Abstract: There is provided a tape printing apparatus which is capable of positively discharging a cut-off tape strip of a tape material out of the apparatus by forcibly discharging the same, thereby preventing jamming and double cutting of the tape material. A full-cutting device for cutting a printed strip off the tape material is arranged at a location downstream of a printing section in a tape-feeding direction. A half-cutting device carries out half-cutting of the tape material. A tape discharge device forcibly discharges the cut-off tape strip out of the apparatus via a tape exit.
Classifications:
International (IPC 8-9): B26D1/30 B26D7/32 B41J B41J11/66 B41J11/70 B41J15/00 B41J15/04 B41J3/36 B41J3/407 B65H20/02 B65H23/28 B65H27/00 B65H29/20 B65H35/06 (Advanced/Invention); B41J11/66 (Advanced/Non-invention); B26D1/01 B26D7/00 B41J11/66 B41J11/70 B41J15/04 B41J3/36 B41J3/407 B65H20/02 B65H23/04 B65H27/00 B65H29/20 B65H35/06 (Core/Invention)
International (IPC 1-7): B26D1/30 B26D7/32 B41J B41J11/66 B41J11/68 B41J11/70 B41J15/00 B41J15/04 B41J3/36 B65H20/02 B65H23/28 B65H27/00 B65H29/20 B65H35/06
CPC: Y10T83/0207 B41J11/703 B41J3/4075 B41J11/666
European: B41J11/66P B41J11/70B B41J3/407L
US: 101/93.07 400/615.2 400/621 83/862



Family:

Publication number	Publication date	Application number	Application date
CN1190325 C	20050223	CN20011042732	20010929
CN1348867 A	20020515	CN20011042732	20010929
HK1046390 A1	20050909	HK20020107919	20021031
HK1046390 B	20050909	HK20020107919	20021031
JP2002104716 A2	20020410	JP20000297849	20000929
JP2002167092 A2	20020611	JP20000364658	20001130
JP4405067 B2	20100127	JP20000297849	20000929
KR100395830 B1	20030827	KR20010060399	20010928
KR20020025794 A	20020404	KR20010060399	20010928
TW520326 B	20030211	TW20010124203	20010928
US2002094222 AA	20020718	US20010960847	20010921
US6705784 BB	20040316	US20010960847	20010921

Priority:

JP20000297849 20000929 JP20000364658 20001130

Probable Assignee: SEIKO EPSON CORP

Assignee(s): (std)**:** KING JIM CO LTD ; SEIKO EPSON CORP

Assignee(s): KING JIM CO ; KING JIM CO LTD 10 18 HIGASHI KANDA 2 CHOME CHIYODA KU TOKYO 101 0031 ; SEIKO EPSON 4 1 NISHI SHINJUKU 2 CHOMESHINJUKU

Inventor(s): (std)**:** HASHIMOTO AKIRA ; HASHIMOTO SATOSHI ; HIDEKI SAKANO ; KOJIMA KO ; KOJIMA YASUSHI ; NAKAMURA TOMOKI ; NAKAMURA TOMONORI ; SAKANO HIDEKI ; SODEYAMA HIDEO ; UNNO TERUHIKO ; UNNO TERUHIKO AND ; YOSHIKIYO YOSHIYA ; AKI HASHIMOTO ; FURUYA YOSHIKIYO

Inventor(s): HASHIMOTO AKI ; YOSHIYA YOSHIKIYO ; YOSHIKIYO FURUYA ; TOMOKI NAKAMURA ; TERUHIKO UNNO ; KO KOJIMA ; HIDEO SODEYAMA ; AKIRA HASHIMOTO

Agent(s): CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD WANCHAI

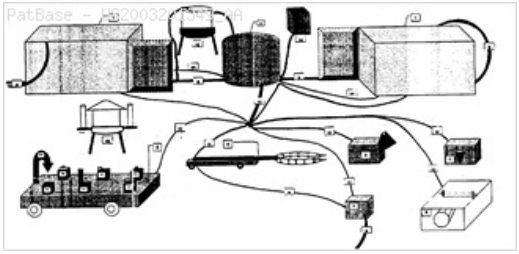
208) Family number: 29418593 (US2003201349A)

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Title: FOREST REJUVENATION AND PRESERVATION

Abstract: A method of rejuvenating and preserving a forest by transforming wood waste. Tree species are identified in a forest area. Equipment is then selected or modified based on the identified tree species. Wood waste of the identified tree species is gathered and transformed into useful wood derived end products with the selected or modified equipment. The wood waste may be transformed into wood charcoal and used as a fuel in a furnace to heat a boiler to produce steam. The steam is used to drive a turbine that runs an electric generator to produce electricity to run equipment that transforms the wood waste.

Classifications:
International (IPC 8-9): A01G23/00 A01G23/02 A01G23/08 A01G23/099 A01G3/08 (Advanced/Invention)
International (IPC 1-7): A01G3/08 A01N B02C17/00 B02C17/02 B24B1/00 B26F3/00 B27L1/00 G06F17/60 G06G7/48
CPC: A01G3/08 A01G23/00 A01G23/08 A01G23/099 G06Q40/08
European: A01G23/00 A01G23/08 A01G23/099 A01G3/08 G06Q40/08
US: 144/335 144/4.1 144/41 241/24.2 241/24.200P 30/121 30/121P 705/4 705/4P



Family:

Publication number	Publication date	Application number	Application date
AU2003225166 AA	20031110	AU20030225166	20030425

AU2003225166 AH	20031110	AU20030225166	20030425
AU2003231103 AA	20031110	AU20030231103	20030425
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AU2003231105 AA	20031110	AU20030231105	20030425
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US2003201349 AA	20031030	US20030423645	20030425
US2004003500 AA	20040108	US20030423682	20030425
US2004143463 AA	20040722	US20030423644	20030425
US7320348 BB	20080122	US20030423645	20030425
WO03090519 A2	20031106	WO2003US12866	20030425
WO03090519 A3	20031218	WO2003US12866	20030425
WO03090519 C1	20040212	WO2003US12866	20030425
WO03090528 A2	20031106	WO2003US12867	20030425
WO03090528 A3	20061221	WO2003US12867	20030425
WO03091851 A2	20031106	WO2003US12861	20030425
WO03091851 A3	20040408	WO2003US12861	20030425

Priority:

US20020376294P 20020426 US20030423644 20030425 US20030423645 20030425
WO2003US12867 20030425 US20030423682 20030425 WO2003US12861 20030425
WO2003US12866 20030425

Probable Assignee: ECOEM LLC

Assignee(s): (std)**:** ECOEM LLC ; MURCIA PHILIPPE R

Assignee(s): ECOEN LLC ; HESS ROBERT J

Inventor(s): (std)**:** HESS ROBERT J ; ROBERT J HESS ; PHILIPPE R MURCIA ; MURCIA PHILIPPE R

Agent(s): HESS PATENT LAW FIRM PC; HESS ROBERT J; ROBERT J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

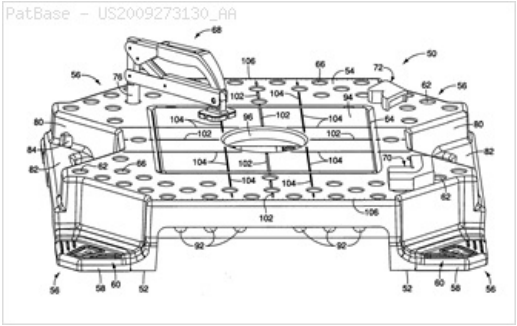
209) Family number: 43953594 (US2009273130A)

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Title: TILE HOLDING FIXTURE ASSEMBLY

Abstract: Embodiments of the present invention are directed to a fixture assembly that is capable of holding work pieces such tiles of various sizes in various positions in a manner which enables freehand cutting. Various embodiments include a main fixture having a working top surface area that includes strategically placed cylindrical openings that are configured to receive easily manipulated tile holding clamps, various dogs that can be removably secured to the fixture in order to place tiles in a desirable position to be held during a cutting operations. The fixture is light weight and is easily transportable to a jobsite and has the capability of storing the clamps, dogs, marking instruments and the like.

Classifications:
International (IPC 8-9): B23Q3/00 B25B1/00 B25B11/00 B25H1/08 B28D7/04 (Advanced/Invention);
B28D7/04 (Advanced/Non-invention);
B25B11/00 B25H1/00 B28D7/00 (Core/Invention);
B28D7/00 (Core/Non-invention)
CPC: Y10T29/53961 B28D7/04 B25B5/127 B25H1/08
European: B25B5/12D B25H1/08 B28D7/04
US: 125/35 125/35S 269/16 269/16P 269/303 269/303S 269/329 269/329S 269/53 269/54.5 269/56 269/56S 269/97 29/281.1



Family:

Publication number	Publication date	Application number	Application date
DE602009033938 D1	20151112	DE200960033938T	20090430
EP2288482 A1	20110302	EP20090739770	20090430
EP2288482 B1	20150930	EP20090739770	20090430
US2009273130 AA	20091105	US20090433269	20090430
US8220786 BB	20120717	US20090433269	20090430
WO09134968 A1	20091105	WO2009US42235	20090430

Priority:

US20080126219P 20080502 EP20090739770 20090430 US20090433269 20090430
WO2009US42235 20090430

Probable Assignee: CREDO TECHNOLOGY CORP

Assignee(s): (std)**:** DIIULIO DALE S ; MICOLEY SCOTT ; DENLEY PETER ; DOPPELT LOREN ; LIU JIE ; CREDO TECH CORP ; DILULIO DALE S ; ARMSTRONG SAM ; BAKER TIMOTHY ; BOSCH GMBH ROBERT ; BRADBERY RONALD

Assignee(s): CREDO TECHNOLOGY CORP ; ROBERT BOSCH GMBH

Inventor(s): (std)**:** MICOLEY SCOTT ; LIU JIE ; DOPPELT LOREN ; DILULIO DALE S ; DIIULIO DALE S ; DENLEY PETER ; BRADBERY RONALD ; BAKER TIMOTHY ; ARMSTRONG SAM

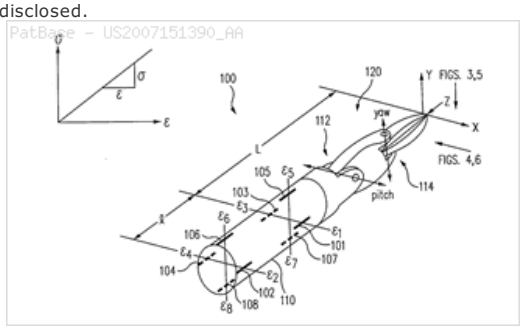
Agent(s): ISARPATENT PATENTANWAELTE BEHNISCH BARTH CHARLES HASSA PECKMANN AND PARTNER MBB; BARTH STEPHAN MANUEL; ISARPATENT; GREER BURNS AND CRAIN; GREER BURNS AND CRAIN LTD; GREER ROGER D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

210) Family number: 34708595 (US2007151390A)

Title: FORCE AND TORQUE SENSING FOR SURGICAL INSTRUMENTS

Abstract: An apparatus, system, and method for improving force and torque sensing and feedback to the surgeon performing a telerobotic surgery are provided. Groups of axially oriented strain gauges are positioned on a distal end of an instrument shaft proximate a moveable wrist of a robotic surgical instrument to sense forces and torques at the distal tip of the instrument. Advantageously, errors due to changes in the configuration of the tip or steady state temperature variations are eliminated. Other advantageous configurations and methods are disclosed.



Classifications:

International (IPC 8-9): A61B1/00 A61B1/002 A61B1/005 A61B1/008 A61B1/01 A61B1/018 A61B1/04 A61B1/045 A61B1/05 A61B1/06 A61B1/313 A61B1/32 A61B17/00 A61B17/02 A61B17/28 A61B17/29 A61B17/295 A61B17/32 A61B17/3209 A61B17/34 A61B17/94 A61B18/00 A61B19/00 A61B34/00 A61B34/10 A61B34/20 A61B34/30 A61B34/32 A61B34/35 A61B34/37 A61B5/00 A61B5/05 A61B5/06 A61B5/151 A61B8/00 A61B8/12 A61B90/00 A61B90/10 A61B90/14 A61B90/30 A61B90/50 A61B90/98 A61F11/00 A61M25/00 B23P11/00 B23P17/04 B25J13/02 B25J13/06 B25J13/08 B25J15/00 B25J17/00 B25J17/02 B25J18/00 B25J18/02 B25J18/06 B25J19/02 B25J19/04 B25J19/06 B25J3/00 B25J9/06 B25J9/10 B25J9/16 G01D7/00 G01L1/00 G01L1/22 G01L1/24 G05B19/04 G05B19/18 G05B19/19 G05B19/42 G06F17/00 G06F19/00 G06F3/048 G06K9/00 G06T11/40 G06T11/60 G06T17/00 G06T19/00 G06T7/00 G09B23/28 (Advanced/Invention);
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Priority:

US20050093372 20050330 US20050755157P 20051230 US20050755108P 20051230
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US20130095011 20131203 US20130107692 20131216 US20130107791 20131216
US20140173681 20140205

Probable Assignee: INTUITIVE SURGICAL OPERATIONS INC

Assignee(s): (std): BLUMENKRANZ STEPHEN J ; COOPER THOMAS G ; DIMAIO SIMON ; DIOLAITI NICOLA ; DUVAL EUGENE F ; INTUITIVE SURGICAL INC ; INTUITIVE SURGICA INC ; INTUITIVE SURGICAL OPERATIONS ; GOMEZ DANIEL ; GOMEZ DANIEL H ; HALABE DANIEL J ; HOFFMAN BRIAN D ; HASSER CHRISTOPHER J ; LARKIN DAVID Q ; INTULTIVE SURGICAL INC ; ROGERS THEODORE W ; LOCKYER BRETT J ; SCHENA BRUCE ; MCGROGAN ANTHONY K ; ROSA DAVID J ; MOHR CATHERINE J ; MOHR CATHERINE ; KUMAR RAJESH ; MOHR PAUL W ; LILAGAN PAUL ; MUSTAFA TABISH ; LILAGAN PAUL E ; MITRA PROBAL ; MUSTUFA TABISH ; MINTZ DAVID STEPHEN ; NIXON THOMAS ROBERT ; ITKOWITZ BRANDON D ; SHAFER DAVID C ; WILLIAMS MATTHEW R ; SCHENA BRUCE MICHAEL ; SCHENA BRUCE M ; TOGNACCINI MARC E ; ZHAO TAO ; ZHAO WENYI

Assignee(s): INTUITIVE SURGICAL OPERATIONS, INC.

Inventor(s): (std): WILLIAMS MATTHEW G ; WILLIAMS MATTHEW R ; DIMAIO SIMON P ; ZHAO WENYI ; ZHAO TAO ; TOGNACCINI MARC E ; SCHENA BRUCE MICHAEL ; ROGERS THEODORE W ; PROBAL MITRA ; MUSTUFA TABISH ; MOHR PAUL W ; MITRA PROBAL ; LILAGAN PAUL E ; LILAGAN PAUL ; LARKIN DVID Q ; ITKOWITZ BRANDON D ; HOFFMAN BRIAN D ; HASSER CHRISTOPHER J ; HALABE DANIEL J ; GOMEZ DANIEL H ; GOMEZ DANIEL ; DIMAIO SIMON ; DANIEL J HALABE ; DANIEL GOMEZ ; CATHERINE J MOHR ; BRIAN DAVID HOFFMAN ; WENYI ZHAO ; TAO ZHAO ; TABISH MUSTAFA ; SIMON DIMAIO ; RAJESH KUMAR ; NICOLA DIOLAITI ; LOCKYER BRETT J ; LAKIN DAVID Q ; DUVAL EUGENE F ; HOFFMAN BRIAN DAVID ; KUMAR RAJESH ; LARKIN DAVID ; LARKIN DAVID Q ; MCGROGAN ANTHONY ; MCGROGAN ANTHONY K ; MINTZ DAVID ; MINTZ DAVID STEPHEN ; MOHR CATHERINE ; MOHR CATHERINE J ; MUSTAFA TABISH ; NIXON THOMAS ; NIXON THOMAS ROBERT ; ANTHONY MCGROGAN ; BLUMENKRANZ STEPHEN J ; ROSA DAVID J ; SCHENA BRUCE ; SCHENA BRUCE M ; COOPER THOMAS G ; DIOLAITI NICOLA ; SHAFER DAVID C

Inventor(s): WILLIAMS MATTHEW ; DUVAL EUGENE ; SHAFER DAVID ; COOPER THOMAS ; BLUMENKRANZ STEPHEN ; ROSA DAVID

Agent(s): MACDOUGALL ALAN JOHN SHAW; MACDOUGALL ALAN JOHN SHAW ET AL; YAMAKAWA MASAKI; FRANK NGUYEN, INTUITIVE SURGICAL; FRANK NGUYEN INTUITIVE SURGICAL; PATENT DEPT, INTUITIVE SURGICAL INC; PATENT DEPT INTUITIVE SURGICAL INC; MACPHERSON KWOK CHEN AND HEID LLP; INTELLECTUAL PROPERTY DEPT INTUTIVE SURGICAL INC; PATENT DEPT INTUITIVE SURGICAL OPERATIONS INC; PATENT DEPT INTUITIVE SURGICAL OPERATIONS; NGUYEN FRANK; NGUYEN FRANK ET AL; ALLENBY CHRISTOPHER B ET AL

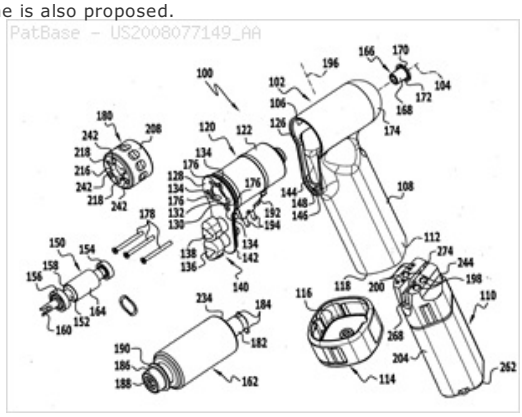
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211) Family number: 41015597 (US2008077149A)

Title: SURGICAL MACHINE AND METHOD FOR CONTROLLING AND/OR REGULATING A SURGICAL MACHINE

Abstract: In order to so improve a surgical machine comprising a housing and a surgical drive that maintenance of the machine is simplified, it is proposed that the drive and the housing be directly on indirectly connectable in a detachable manner. A method for controlling and/or regulating a surgical machine is also proposed.

Classifications:
International (IPC 8-9): A61B17/00 A61B17/14 A61B17/16 A61B90/00 B25F5/00 B25F5/02 (Advanced/Invention); A61B17/14 A61B17/16 B25F5/00 (Core/Invention)
CPC: Y10S388/907 A61B17/1626 A61B17/1628 A61B17/1613 A61B2090/0813
European: A61B17/16D K61B19/48J
US: 335/219 388/907 606/178 606/178S 606/80 606/80P 606/82 606/82S



Family:

Publication number	Publication date	Application number	Application date
EP1871242 A1	20080102	EP20050735007	20050416
EP1871242 B1	20170927	EP20050735007	20050416
JP2008537901 T2	20081002	JP20080505739T	20050416
JP4892546 B2	20120307	JP20080505739T	20050416
TR201716874 T4	20171221	TR20170016874T	20050416
US2008077149 AA	20080327	US20070974182	20071010
US8029510 BB	20111004	US20070974182	20071010
WO06111173 A1	20061026	WO2005EP04059	20050416

Priority:
EP20050735007 20050416 WO2005EP04059 20050416 US20070974182 20071010

Probable Assignee: AESCULAP AG

Assignee(s): (std): AESCULAP AG ; AESCULAP AG AND CO KG ; AESCULAP AND CO AG KG ; KLEINWAECHTER TIMO ; MACHILL MARTIN ; SCHNEIDER JUERGEN ; KAHLER THOMAS ; HOEGERLE ROLAND ALOIS ; SCHAZ UWE ; KONRATH HARALD ; AESCULAP WERKE AG

Inventor(s): (std): HOEGERLE ROLAND A ; HOEGERLE ROLAND ALOIS ; KAHLER THOMAS ; KLEINWAECHTER TIMO ; KONRATH HARALD ; MACHILL MARTIN ; SCHAZ UWE ; SCHNEIDER JUERGEN

Inventor(s): THOMAS KAHLER ; TIMO KLEINWAECHTER ; UWE SCHAZ ; MARTIN MACHILL ; JUERGEN SCHNEIDER ; ALOIS ROLAND HOEGERLE ; HARALD KONRATH ; HOEGERLE ROLAND

Agent(s): HOEGER STELLRECHT AND PARTNER PATENTANWAELTE; HOEGER STELLRECHT AND PARTNER PATENTANWAELTE MBB; HALISE BETUEL ATABAY VARLIK; LIPSITZ AND MCALLISTER LLC

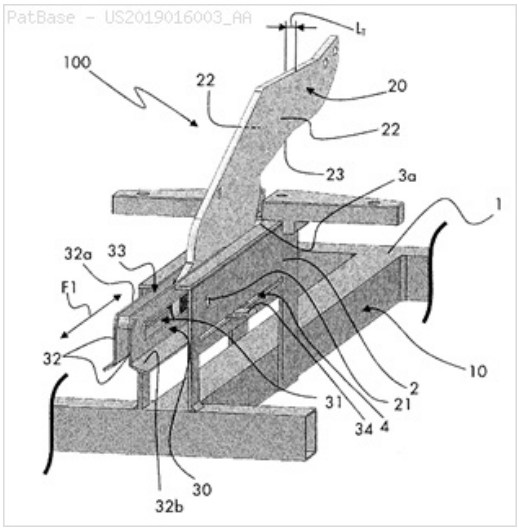
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212) Family number: 72869598 (US2019016003A)

Title: TOOLD FOR CUTTING PANELS, IN PARTICULAR MADE OF RECONSTITUTED MATERIAL

Abstract: A tool for cutting a panel made of reconstituted material comprises a fixed support on which a blade is mounted so as to be able to pivot by means of a pivot. A slot is provided which is designed to receive at least part of the blade during cutting. A movable support is mounted so as to be able to move about the rotation pin (**21**), between an engagement position in which the movable support is arranged along the longitudinal edges of the slot of the fixed support, and a retracted position in which the movable support is arranged spaced apart from the longitudinal edges of the slot of the fixed support. The movable support comprises a slot of width smaller than the width of the slot of the fixed support and greater than the width (Lt) of the blade.

Classifications:
International (IPC 8-9): B23D17/08 B23D33/02 B26D1/30 B26D7/00 B26D7/01 B26D7/08 B26D7/26 B28D1/22 (Advanced/Invention); B26D7/01 (Advanced/Non-invention)
CPC: B26D1/30 B26D7/01 B26D2001/0066 B23D33/02 B23D17/08 B26D7/0006 B26D7/08



Family:

Publication number	Publication date	Application number	Application date
CN109249454 A	20190122	CN201810767652	20180713
EP3466623 A1	20190410	EP20180182219	20180706
FR3068905 A1	20190118	FR20170056721	20170716
TW201908084 A	20190301	TW20180124127	20180712
US2019016003 AA	20190117	US20180032110	20180711

Priority:

FR20170056721 20170716

Probable Assignee: PIERRE GREHAL ET CIE ETS SA

Assignee(s): (std)**:** PIERRE GREHAL ET CIE ETS SA

Inventor(s): (std)**:** MARCON LIONEL

Inventor(s): LIONEL MARCON

Agent(s): RATABOUL XAVIER; BE LEADER INNOVATION

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

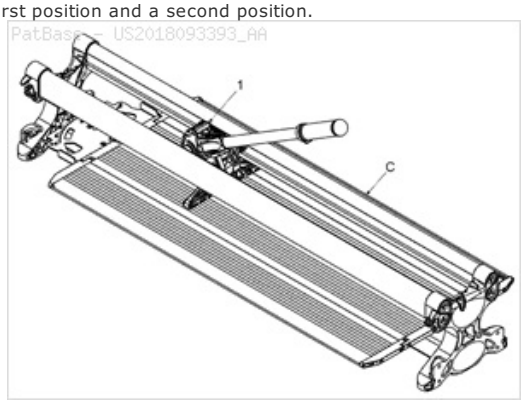
213) Family number: 63604601 (US2018093393A)

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Title: CUTTING AND SEPARATION HEAD FOR MANUAL CERAMICS CUTTERS

Abstract: A cutting and separation head for manual ceramic cutters, including a body that carries a grip handle and a cutting tool, mounted on movable supports on longitudinal guides of the cutter, and able to rotate with respect to a first transverse rotary shaft; a separator provided with a foot, a class 1 lever, and a first coupling element in the separator that is couplable to a second coupling element in the body of the head; and a cam for releasing the first and second coupling elements, the cam being mounted on the body and relatively rotatable between a first position and a second position.

Classifications:
International (IPC 8-9): B26F3/00 B28D1/22
B28D5/00 (Advanced/Invention)
CPC: B28D1/225



Family:

Publication number	Publication date	Application number	Application date
BR112017019611 A2	20180522	BR20171119611	20160217
CA2976738 AA	20170815	CA20162976738	20160217
CN107428028 A	20171201	CN201680016773	20160217
CN107428028 B	20190301	CN201680016773	20160217
EP3272484 A1	20180124	EP20160767791	20160217
EP3272484 A4	20181212	EP20160767791	20160217
ES2583358 AA	20160920	ES20150000225	20150320
ES2583358 BA	20170629	ES20150000225	20150320
IN201717035178 A	20171124	IN201717035178	20171004
JP2018508387 T2	20180329	JP20170549208T	20160217
JP6411671 B2	20181024	JP20170549208T	20160217
MX2017010649 A1	20180413	MX20170010649	20160217

US2018093393 AA	20180405	US20160559721	20160217
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WO16151162 A1	20160929	WO2016ES70099	20160217

Priority:

ES20150000225 20150320 WO2016ES70099 20160217

Probable Assignee: GERMANS BOADA SA

Assignee(s): (std)**:** BOADA GERMANS SA

Assignee(s): GERMANS BOADA S A ; GERMANS BOADA SA ; SOLER BALCELLS JORDI

Inventor(s): (std)**:** JORDI SOLER BALCELLS ; SOLER BALCELLS JORDI

Inventor(s): SOLER BALCELLS ; JORDI

Agent(s): RICHES MCKENZIE AND HERBERT LLP; MALDONADO JORDAN JULIA; FUKAMI PATENT OFFICE PC; MAIER AND MAIER PLLC; CARBONELL CALLICO JOSEP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

214) Family number: 19712601 (GB793932A)

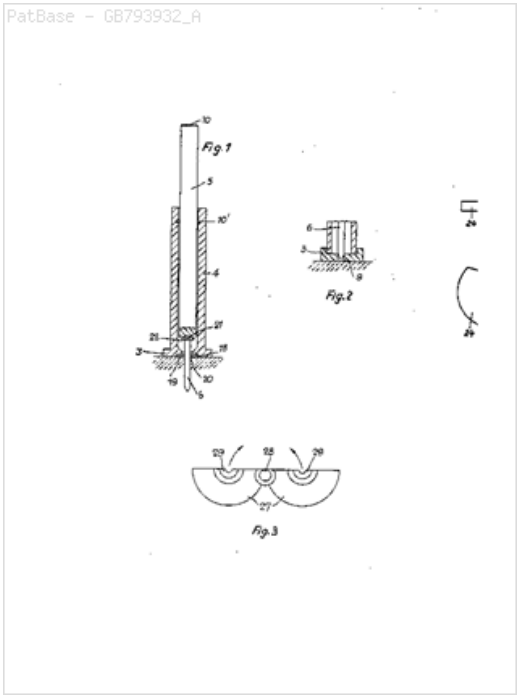
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Title: Improvements relating to a method of and a tool for driving in pins, nails, studs, or other anchoring pins

Abstract: 793,932. Nailing. ANSTALT FUR MONTAGE-TECHNIK. April 28, 1954 [May 8, 1953: Aug. 31. 1953; Nov. 2. 1953; April 15, 1954], No. 12336/54. Class 89(3) In a tool having a nail driving punch slidable in a hand held sleeve, the nail, whilst being driven, is held against lateral deflection by two spaced guides, one of which acts on the shank of the nail adjacent the workpiece into which the nail is being driven, and the other of which comprises a shaped surface on the nail-engaging end of the punch which co-operates with a correspondingly shaped surface on the rear end of the nail in such a manner that the rear end of the nail is centred with respect to the punch. The centring surfaces on the punch and rear end of the nail may comprise a recess in one of these members which receives a correspondingly shaped projection or appendage on the other of these members. Such surfaces preferably are a surface of revolution about the longitudinal axis of the punch or nail, which surface slopes towards that axis, for example, the surface of a cone or part of a sphere. The guide adjacent the workpiece may have a laterally movable part to facilitate the insertion of a headed nail and the removal of the tool after driving a headed nail. The end of the sleeve engaging the workpiece is provided with an enlarged base plate to prevent tilting of the tool. In Fig. 1, a part spherical centring recess 21 in the punch 5 receives the head 22 of a nail 6, the upper surface of the head being of part spherical shape to correspond with the recess 21. The shank of the nail 6 is guided by a washer 19 received in a recess 18 in the bottom surface of the base plate 3. A friction element 10^1, which may be a spring ring received in an annular groove in the inner wall of the sleeve, prevents recoiling of the punch after the hammer blows. The lower guide may be formed in two relatively movable parts 24, Fig. 4, each having a shaped part which enters a conical recess 25 in the bottom of the sleeve 4. Modified constructions of lower guide members formed in two parts with projections to engage in a conical recess 25 in the sleeve 4 are described with reference to Figs. 3 and 5 (not shown). In the embodiment shown in Figs. 7 and 8, a sleeve 34 having a radial slot 40 at its lower end is rotatably mounted within the handle 32 and can be rotated into the position shown in Fig. 7 in which the slot 40 is aligned with a slot 39 in the handle 32 and base 33 so that a headed nail can be inserted into, or removed from, the tool. The slot 40 has a constriction, Fig. 9, (not shown), which receives the shank of the nail. When the sleeve 34 is rotated to the position shown in Fig. 8 guiding of the shank of the nail is effected. A spring clip 47 locates the sleeve in its two positions. In the embodiment of Fig. 12, the lower guide is comprised by opposed grooves 55, 54 in the base plate 33 and in the lower end of a pivoted catch 48 which is urged inwardly when the tool is held by the operator. In the construction of Fig. 16 the lower recessed ends of centrally pivoted levers 62 are caused to open by upward displacement of a ring 64. When the ring is moved downwardly to the position in Fig. 15 (not shown) the recessed lower ends of the levers 62 come together to form the lower guide. In Fig. 16, the handle is covered by a rubber tube 50^1. The nails used with the tool may have slightly tapered shanks as described and claimed in Specification 793,933 [Group XXV]. Specification 589,219 also is referred to.

Classifications:

International (IPC 8-9): B25C1/02 (Advanced/Invention); B25C1/00 (Core/Invention)
International (IPC 1-7): B25C1/02
CPC: B25C1/02
European: B25C1/02



Family:

Publication number	Publication date	Application number	Application date
BE528658 A	00000000		00000000
CH313626 A	19560430		19540504

FR1100233 A	19550919		19540506
GB793932 A	19580423	GB19540012336	19540428

Probable Assignee: FUR MONTAGE TECHNIK ANSTALT

Assignee(s): (std): ANSTALT F MONTAGE TECHNIK ; ANSTALT FUER MONTAGE TECHNIK ; FUR MONTAGE TECHNIK ANSTALT

Assignee(s): ANSTALT FUR MONTAGE TECHNIK

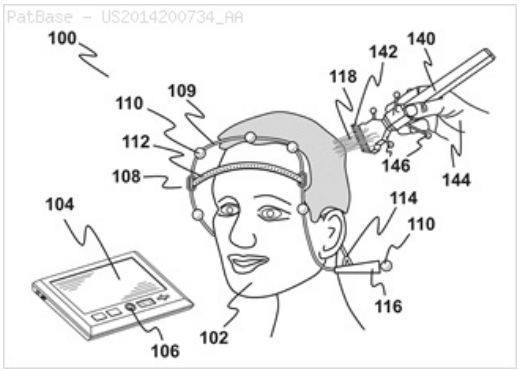
Inventor(s): (std): HILTI MARTIN DIPL ING

215) Family number: 56895603 (US2014200734A)

Title: POSITIONING DEVICE FOR AUTOMATED HAIR CUTTING SYSTEM

Abstract: Disclosed herein are various embodiments of positioning devices and methods for use with an automated hair cutting system. The positioning devices comprise a frame, the frame comprising at least a front frame and one or more side frames; and a plurality of positioning interfaces, the positioning interfaces configured to at least one of transmit signals and receive signals, said signals for at least partially determining at least one of position and orientation of a hair cutting device, the plurality of positioning interfaces positioned at various intervals about the frame. The front frame comprises at least one structural feature designed to contact at least one feature of a user's face, and wherein said front frame extends at least partially across said user's face.

Classifications:
International (IPC 8-9): A45D24/36 B26B19/38 B26B21/40 B26B29/06 G05B15/02 G06F19/00 (Advanced/Invention); A45D7/00 (Advanced/Non-invention)
CPC: B26B29/06 B26B19/3826 B26B19/388 G05B15/02 A45D24/36 A45D2007/007 B26B21/4081
US: 132/200 132/214 700/302



Family:

Publication number	Publication date	Application number	Application date
US2014200734 AA	20140717	US20140156817	20140116
US2015040934 AA	20150212	US20140525998	20141028
US9778631 BB	20171003	US20140156817	20140116
US9993058 BB	20180612	US20140525998	20141028

Priority:

US20130753072P 20130116 US20130820015P 20130506 US20130843094P 20130705
US20130901093P 20131107 US20140156817 20140116 US20140525998 20141028

Probable Assignee: VERTICE INC

Assignee(s): (std): KRENIK MATTHEW W

Assignee(s): VERTICE INC

Inventor(s): (std): KRENIK MATTHEW W

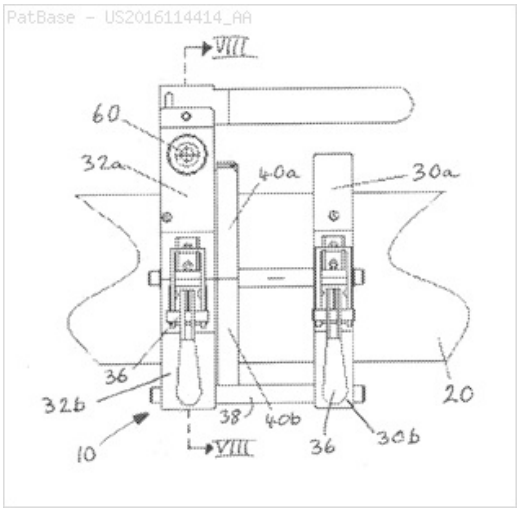
Agent(s): RICHARD G; ELDREDGE LAW FIRM

216) Family number: 50551605 (US2016114414A)

Title: PIPE CUTTING APPARATUS

Abstract: A pipe cutting apparatus (10), especially for cutting or machining a plastics, resin or soft-metallic pipe (20), comprises a frame (30a, 30b; 32a, 32b) for receiving the pipe (20) to be cut, and cutting means (102) rotatable by externally powered drive means (60) with respect to the pipe (20) to perform a cut, wherein the cutting means (102) comprises a cutting tool (102) carried on a pivotally mounted tool holder (100) and biased into cutting relationship with the outer surface of the pipe (20) by biasing means such as a coil spring (104). The tool holder (100) on which the cutting tool (102) is mounted preferably further comprises means (106) for limiting the maximum depth of a single given cut able to be performed in a single pass by the cutting tool (102) as it is rotated with respect to the pipe (20) held in the frame, as well as limiting means (108) for defining the maximum depth of a plurality of cuts able to be performed by that plurality of cuts of the cutting tool (102) as it is rotated through that plurality of cutting revolutions with respect to the pipe (20) held in the frame. Examples of pipe cutting or machining operations the apparatus may be used for include: complete cutting-through of the pipe wall, eg. by a transverse cut; partial cutting-through of an outer surface or wall of the pipe; stripping of one or more outer layers from the outer surface of the pipe, to allow the pipe to be joined to another by butt-fusion; removal of irregularities from the outer surface of the pipe, for providing a cut end of the pipe with a clean, smooth outer surface of substantially uniform diameter to allow the pipe to be joined to another by electro-fusion; bevelling, chamfering or other shaping of the edge(s) of a cut pipe end, mouth or lip.

Classifications:
International (IPC 8-9): B23B5/16 B23D21/04 B26D3/16 (Advanced/Invention)
CPC: B23B5/161 B26D3/16 B23B5/163 B23B2215/72 B23B2220/04 B23D21/04
US: 82/1.11 82/99.1



Family:

Publication number	Publication date	Application number	Application date
EA027005 B1	20170630	EA20140090984	20121114
EA201490984 A1	20140829	EA20140090984	20121114
EP2780129 A1	20140924	EP20120806070	20121114
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GB2496661 A1	20130522	GB20110019943	20111118
GB2496661 B2	20160615	GB20110019943	20111118
US2016114414 AA	20160428	US20120359092	20121114
US9636760 BB	20170502	US20120359092	20121114
WO13072652 A1	20130523	WO2012GB00837	20121114

Priority:

GB20110019943 20111118 WO2012GB00837 20121114

Probable Assignee: SHEPHERD BENJAMIN R W

Assignee(s): (std)**:** BENJAMIN ROLAND WALTER FERMOR SHEPHERD ; SHEPHERD BENJAMIN R W ; SHEPHERD BENJAMIN ROLAND WALTER FERMOR ; SHEPHERD PETA ANNE

Inventor(s): (std)**:** SHEPHERD BENJAMIN ROLAND WALTER FERMOR ; BENJAMIN ROLAND WALTER FERMOR SHEPHERD ; SHEPHERD PETA ANNE

Agent(s): LINN SAMUEL JONATHAN; TAYLOR RUSSELL AND RUSSELL PC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

217) Family number: 9487607 (US5156701A)

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Title: TOTAL CONTAINMENT WELDING OF PLASTIC TUBES

Abstract: Plastic tubes are welded together by placing each tube in a nest which includes a pair of grooves and an anvil centrally located between the grooves. Each tube is positioned in the grooves around the anvil for being juxtaposed the other tube. A wafer of movably mounted to move to the gap between the anvils so as to heat the ends of the tubes and melt the tubes without actually cutting through the tubes. The melted ends are then joined together so that the two tubes are thereby connected with one section of each tube being in flow communication with a corresponding section of the other tube.

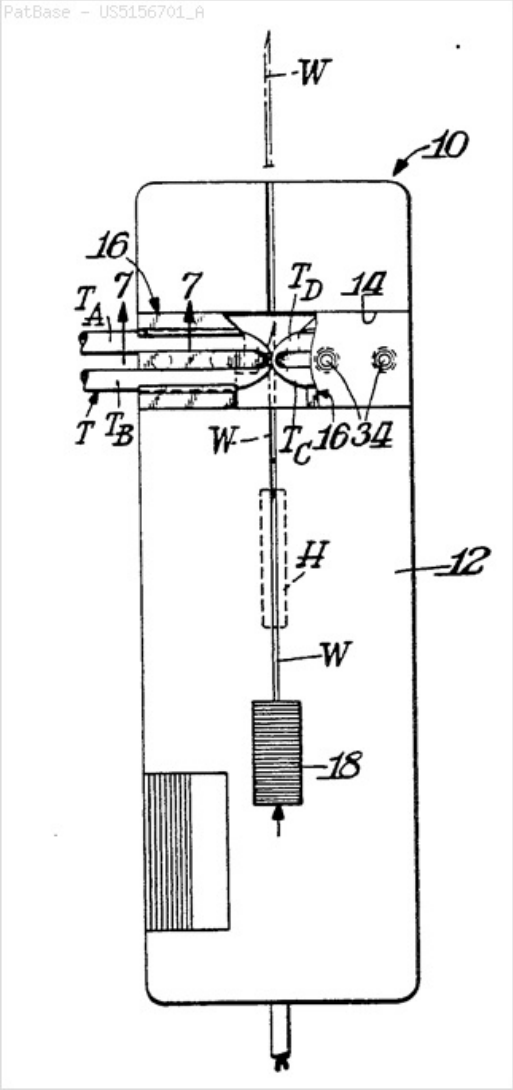
Classifications:

International (IPC 8-9): A61M1/14 A61M1/28 A61M25/00 A61M39/00 A61M39/02 A61M5/00 B01L11/00 B03C3/38 B26F3/08 B29C57/10 B29C65/00 B29C65/18 B29C65/20 B29C65/30 B29C65/74 B29C65/78 B29C65/82 B29C71/00 B65B31/04 B65B51/10 B65B7/14 F16L47/02 H01T23/00 (Advanced/Invention);
A61M39/02 B29L22/00 B29L23/00 (Advanced/Non-invention);
A61M1/14 A61M1/28 A61M39/00 A61M39/02 B29C57/00 B29C65/00 B29C65/18 B29C65/78 (Core/Invention);
A61M39/02 (Core/Non-invention)

International (IPC 1-7): A61M1/14 A61M1/28 A61M25/00 A61M39/00 A61M39/02 A61M5/00 B01L11/00 B03C3/38 B23K1/00 B23K37/02 B26F3/08 B29C35/02 B29C57/00 B29C57/10 B29C65/02 B29C65/04 B29C65/18 B29C65/20 B29C65/30 B29C65/74 B29C65/78 B29C65/82 B29C71/00 B29L22/00 B29L23/00 B29L23/22 B32B31/00 B32B31/02 B32B31/18 B32B31/26 B65B31/04 B65B51/10 B65B7/14 F16L47/02 G01N33/50 G01N37/00 H01T23/00

CPC: B29C65/8215 B29C65/823 B29C65/8246 B29C65/82 B29C65/203 B29C66/8226 B29K2027/06 B29C66/002 H01T23/00 B29C65/2076 B29C65/2061 B29C65/7802 B29C65/2046 B29L2023/006 B29L2023/22 A61M39/146 B29C57/10 B29C65/7451 B29C65/749 B29C66/032 B29C66/0324 B29C66/326 B29C66/3282 B29C66/4312 B29C66/71 B29C66/80 B29C66/857 B29C66/8762 B29L2023/005 B29L2023/007 B29L2031/753 B29C66/5221 B29C66/91231 B29C66/91421 B29C66/919 Y10T156/14 Y10T156/1005 Y10T156/1051 Y10T156/1054 Y10T156/1313 Y10T156/1326 Y10T156/1378 B29C66/942 B29C66/944 Y10T156/1066 B29C66/954 B29C66/934 B29C65/2015 B29C66/3494 B29C65/7841 B29C66/43 B29C66/137 B29C66/1122 B29C66/1142 B29C66/0018

European: A61M39/14D B29C57/10 B29C65/20 B29C65/20D B29C65/7451 B29C65/78D B29C65/82 B29C66/002 B29C66/032 B29C66/0324 B29C66/1122 B29C66/1142 B29C66/326 B29C66/3282 B29C66/43 B29C66/4312 B29C66/522 B29C66/5221 B29C66/80 B29C66/8762 B29C66/90 H01T23/00 L29C65/20 L29C65/749 L29C66/1142 L29C66/5221 L29C66/71 L29C66/8226 L29C66/91 L29C66/919 L29C66/94 L29K27/06 L29L23/00H L29L23/00H2 L29L23/00H4 L29L23/22 L29L31/753
US: 116/217 156/158 156/159 156/198 156/227 156/251 156/258 156/304.2 156/304.5 156/304.6 156/350 156/352 156/359 156/499 156/503 156/507 156/508 156/515 156/518 156/530 156/535 156/64 269/157 374/160 73/49.3 73/52



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19900569855 19900820 US19900604976 19901029 US19900604967 19901029
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Assignee(s): DENCO INC A CORP OF DELAWARE ; DENCO INC A DE CORP ; DENCO INC A OF DE CORP ; BEIRD ROBERT J ; DENKO INC ; GENESIS BPS LLC ; DENCO INC WILMINGTON ; SHAPOSKA JOHN B ; SPENCER DUDLEY W

Inventor(s): (std): DATSUDOREI DABURIYUUSHII SUPEN ; SPENCER DUDLEY W C DR ; BEIRD ROBERT J ; DATSUDOREI DABURIYUU SUPENSAA ; BUARUDEISU AIBUANSONZU ; AIBUAASU BUII AIBUANSONZU ; AIBUAASU AIBUANSONZU ; BUAARUDEISU AIBUANSONZU ; DATSUDORII DABURIYU SHII SUPEN ; DADORII DABURIYUU SHII SUPENSA ; SPENCER DUDLEY W C ; DADORII DABURIYUU SUPENSAA ; IVANSONS IVARS ; ROBAATO JIEI BEIRU ; JIYON BII SHIYAPOSUKA ; SPENCER DUDLEY W ; SHAPOSKA JOHN B ; IVANSONS VALDIS ; IVANSONS IVARS V ; IVANSONS IVAN V ; SHAPOSKA JOHN ; AIBUAASU BUI AIBUANSONZU

Inventor(s): DADORII DABURIYUU SHII SUPENSAA ; SPENCER DUDLEY WC ; DUDLEY WC SPENCER ; DUDLEY W SPENCER ; JOHN B SHAPOSKA ; ROBERT J BEIRD ; DUDLEY W C SPENCER ; DATSUDORII DABURIYU SHII SUPENSAA ; BUARUDEISU IBUANSONZU ; AIBARUSU BUI IBUANSONZU ; IVARS IVANSONS ; VALDIS IVANSONS ; IVAN V IVANSONS ; DATSUDOREI DABURIYUUSHII SUPENSAA

Agent(s): BORDEN LADNER GERVAIS LLP; SUGIMURA KOSAKU

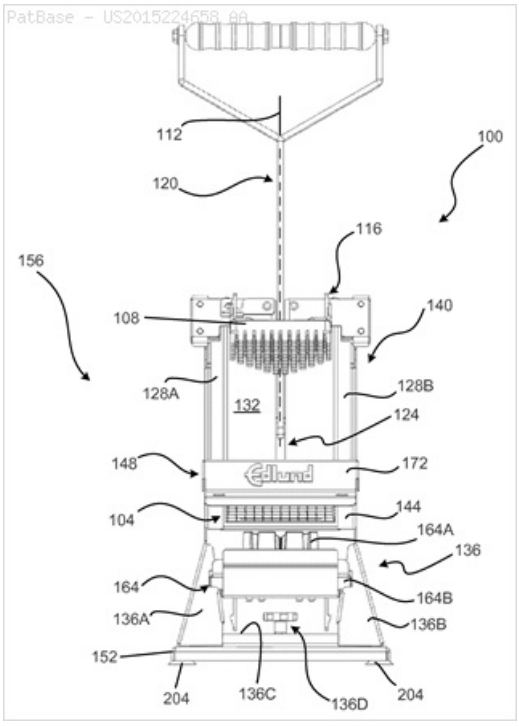
Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

218) Family number: 60049608 (US2015224658A)

Title: JULIENNING/DICING FOOD PUSHER HAVING EASY-CLEAN CONFIGURATION

Abstract: Julienning/dicing food pushers having backings that include strategically located wash openings that promote efficient cleaning of the pushers. Each food product pusher is designed and configured for use with a thrust-type food product cutting apparatus and includes crisscrossing blade-receiving channels that receive blades of a blade grid during a cutting operation. The crisscrossing channels form intersections and define food pusher fingers that extend into food openings within the corresponding blade grid. The pusher fingers are supported by a backing that includes wash openings that expose, from the backside of the food product pusher, the channel intersections and portions of the channels beyond the intersections. These wash openings are particularly effective in cleaning the channels of compacted remnants of food products cut during cutting operations.

Classifications:
International (IPC 8-9): B26D1/00 B26D1/03 B26D1/06 B26D3/20 B26D3/26 B26D7/00 (Advanced/Invention)
CPC: B26D1/03 B26D2001/0066 B26D3/20 B26D7/0006 B26D1/06 B26D1/0006 B26D3/26 Y10T83/2213 Y10T83/8748 Y10T83/8756 Y10T83/885 Y10T83/943 Y10T83/9493
US: 83/164 83/563 83/569 83/633 83/687 83/856



Family:

Publication number	Publication date	Application number	Application date
US2015224658 AA	20150813	US20150618425	20150210
US2015224659 AA	20150813	US20150618445	20150210
US2015224661 AA	20150813	US20150618465	20150210
US2015224662 AA	20150813	US20150618487	20150210
US2015224663 AA	20150813	US20150618513	20150210
US2018169880 AA	20180621	US20180878011	20180123

Priority:

US20140937903P 20140210 US20150618425 20150210 US20150618445 20150210 US20150618465 20150210 US20150618487 20150210 US20150618513 20150210 US20180878011 20180123

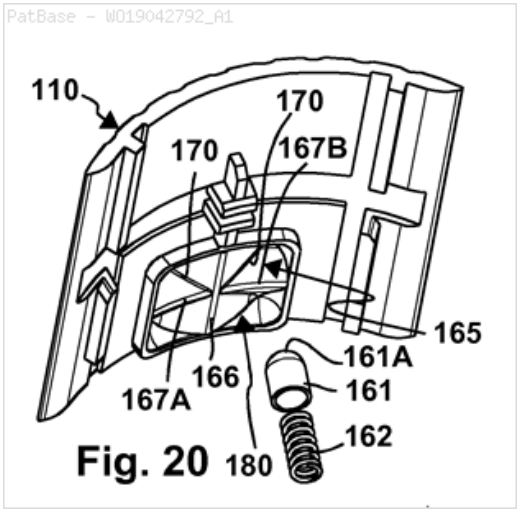
Probable Assignee: EDLUND CO LLC
Assignee(s): (std): EDLUND CO LLC
Inventor(s): (std): WHITNEY RYAN S

219) Family number: 73336611 (WO19042792A1)

Title: HAND-HELD POWER TOOL

Abstract: The invention relates to a hand-held power tool comprising a drive motor, a transmission (40) and a tool-receiving element, a motor output of the drive motor being coupled to a transmission drive (41) of the transmission (40) in a rotating manner and a transmission output (42) of the transmission (40) being coupled to the tool-receiving element in a rotating manner, the hand-held power tool (10) comprising an actuating device (100) for moving the transmission (40) between the gearshift positions (S1, S2, S3, S4) thereof, the actuating device (100) comprising a manually actuatable actuating member (110) mounted such that it can move between actuating positions (B1, B2, B3, B4) in relation to a machine housing (11) of the hand-held power tool (10), said actuating member (110) being coupled to the at least one shift transmission element (101, 102) for controlling the gearshift positions (S1, S2, S3, S4). In order to lock the actuating member (110) in the actuating positions, the actuating device comprises a locking arrangement (160) comprising locking recesses (164) arranged on a locking structure (180) and associated with actuating positions of the actuating member (110), in addition to a locking member (161) for engaging in the locking recesses. The locking structure comprises a control surface arrangement (165) with sliding surfaces (168, 169) along which the locking member can slide and which extend from at least two locking recesses to a vertex (166, 167) arranged between the locking slots and protruding above the locking recesses (164), the locking member being unstable on the vertex such that the locking member is guided past the vertex into one of the locking recesses (164) next to the vertex.

Classifications:
International (IPC 8-9): B25F5/00 (Advanced/Invention)
CPC: B25F5/001



Family:

Publication number	Publication date	Application number	Application date
DE102018111792 A1	20190228	DE201810111792	20180516
WO19042792 A1	20190307	WO2018EP72318	20180817

Priority:

DE201720006789U 20170829 DE201810111792 20180516

Probable Assignee: FESTOOL GMBH

Assignee(s): (std): FESTOOL GMBH

Inventor(s): (std): HUGGENBERGER PHILIPP

Agent(s): PATENTANWAELTE BREGENZER U REULE PARTNERSCHAFTSGESELLSCHAFT MBB

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

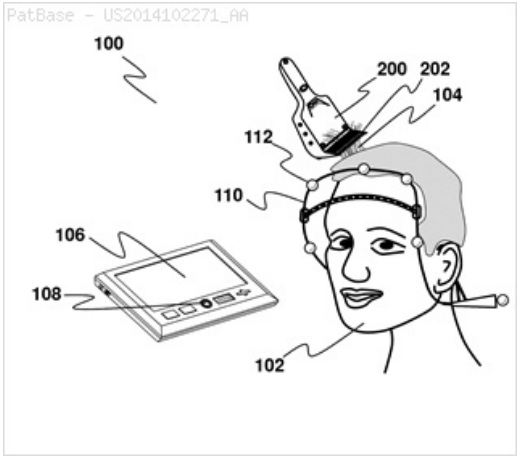
220) Family number: 56248615 (US2014102271A)

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Title: CUTTER HEAD FOR AUTOMATED HAIR CUTTING SYSTEM

Abstract: A cutter head for use with automated hair cutting systems are provided. The cutter head comprises a coupling apparatus for attaching the cutter head to an automated hair cutting device; a top comb comprising a plurality of top cutting members; a bottom comb comprising a plurality of bottom cutting members; and a control apparatus having a plurality of control modes for controlling movement of the top and bottom cutting members.

Classifications:
International (IPC 8-9): B26B19/00 B26B19/38 B26B19/42 B26B21/40 (Advanced/Invention)
CPC: Y10T29/49826 B26B19/388 Y10T83/04 Y10T83/0448 Y10T83/148 B26B19/42 Y10T83/141 B26B19/38 B26B19/3806 B26B19/3846 B26B21/4081
US: 29/428 30/123 30/200 30/30 83/13 83/23 83/72 83/74



Family:

Publication number	Publication date	Application number	Application date
US2014102271 AA	20140417	US20130051201	20131010
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US2015059187 AA	20150305	US20140534411	20141106
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Priority:

US20120713724P 20121015 US20120728851P 20121121 US20120747775P 20121231
US20130780086P 20130313 US20130051201 20131010 US20130901093P 20131107
US20130086497 20131121 US20130143469 20131230 US20140925567P 20140109
US20140534411 20141106 US20170597918 20170517

Probable Assignee: VERTICE INC

Assignee(s): (std)**:** KRENIK MATTHEW W

Assignee(s): VERTICE INC

Inventor(s): (std)**:** KRENIK MATTHEW W

Agent(s): RICHARD G; ELDREDGE LAW FIRM; ELDREDGE RICHARD

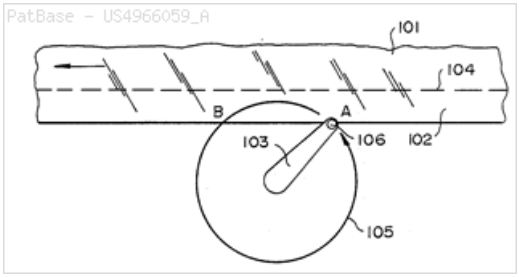
221) Family number: 3868620 (US4966059A)

© PatBase

Title: APPARATUS AND PROCESS FOR HIGH SPEED WATERJET CUTTING OF EXTENSIBLE SHEETING

Abstract: A process and apparatus for high-speed waterjet cutting of moving extensible thermoplastic film at a selvage portion thereof wherein the film is supported during cutting by a solid support surface, the waterjet is captured in the course of cutting in an open passage within the support and the open passage is bounded by the support surface such that good quality cutting of the film is effected.

Classifications:
International (IPC 8-9): B26F1/26 B26F3/00 (Advanced/Invention); B26F3/00 (Core/Invention)
International (IPC 1-7): B26D3/00 B26F1/26
CPC: B26F3/004 Y10T83/0453 Y10T83/0591 Y10T83/2066 Y10T83/364
European: B26F3/00C
US: 83/177 83/24 83/53 83/98



Family:

Publication number	Publication date	Application number	Application date
CA1306667 A1	19920825	CA19880577054	19880909
US4966059 A	19901030	US19870099911	19870922

Priority:

US19870099911 19870922 CA19880577054 19880909

Probable Assignee: FIRST BRANDS CORP

Assignee(s): (std)**:** FIRST BRANDS CORP

Assignee(s): LANDECK HARRY ALLAN ; CIT GROUP EQUIPMENT FINANCING INC ; CIT GROUP SALES FINANCING INC ; CONNECTICUT NATONAL BANK

Inventor(s): (std)**:** LANDECK HARRY A

Inventor(s): LANDECK HARRY ALLAN

Agent(s): RICHES MCKENZIE AND HERBERT LLP

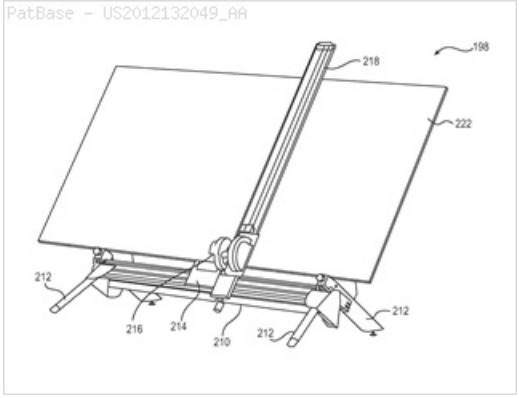
222) Family number: 51146621 (US2012132049A)

© PatBase

Title: CUTTING GUIDE

Abstract: A cutting guide includes a central support, a plurality of legs supporting the central support, and a guide rail disposed on the central support. The guide rail defines a first end and a second end. A carriage is slidably disposable in the guide rail. The carriage is adapted to receive a cutting device thereon and is disposed within the guide rail to be movable from the first end to the second end.

Classifications:
International (IPC 8-9): B23D47/02 B23Q9/00 B25H1/00 B27B5/18 B27B9/04 B28D1/04 (Advanced/Invention)
CPC: B25H1/0021 Y10T83/8763 B25H1/0078 B27B9/04 B23D47/025 B23Q9/0078 Y10T83/7587
European: B23D47/02B B23Q9/00D4 B25H1/00C
US: 83/466.1 83/574 83/574P



Family:

Publication number	Publication date	Application number	Application date
CA2819191 AA	20130527	CA20112819191	20111130
US2012132049 AA	20120531	US20110307124	20111130
US2015135922 AA	20150521	US20150607382	20150128
WO12075067 A2	20120607	WO2011US62514	20111130
WO12075067 A3	20121011	WO2011US62514	20111130

Priority:

US20100417951P 20101130 US20110451440P 20110310 US20110511198P 20110725
US20110307124 20111130 WO2011US62514 20111130 US20150607382 20150128

Probable Assignee: BOKELAAR WILLY

Assignee(s): (std)**:** BOKELAAR WILLY

Inventor(s): (std)**:** BOKELAAR WILLY

Agent(s): BCF LLP; KARCESKI JEFFREY D ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

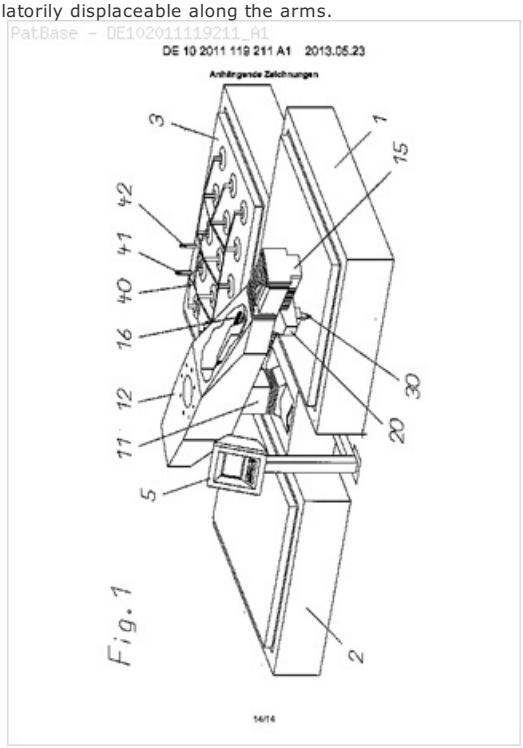
223) Family number: 53778626 (DE102011119211A1)

© PatBase

Title: DEVICE I.E. LASER CUTTING MACHINE, FOR ROTARY AND TRANSLATORY MOVEMENTS OF REDUNDANT EFFECTIVE AXLE UNIT AS PART OF MACHINE TOOL, HAS AXLE UNIT THAT IS REDUNDANT EFFECTIVE FOR MOVEMENT OF ARMS, WHICH ARE DISPLACEABLE ALONG ARMS

Abstract: The device has an end effector (30) movable relative to high acceleration over short distances by a tool carrier and an axle unit (20). The axle unit is movable relative to small acceleration over multiple working areas (1-3) of a machine tool by extensive base axes. Pivotable arms e.g. outer element (12) and inner element (15), are fixed adjacent to a vertical pivotal axis that is displaceable along the working areas and/or located between the working areas. The axle unit is redundant effective for movement of the arms, which are more translatorily displaceable along the arms.

Classifications:
International (IPC 8-9): B23Q7/00 B25J9/00 (Advanced/Invention)
CPC: B25J9/0096 B25J9/1015 B25J11/0055



Family:

Publication number	Publication date	Application number	Application date
DE102011119211 A1	20130523	DE201110119211	20111123

Priority:

DE201110119211 20111123

Probable Assignee: EHLERDING ANDREAS

Assignee(s): (std)**:** EHLERDING ANDREAS

Inventor(s): (std)**:** EHLERDING ANDREAS

224) Family number: 24117636 (US3841181A)

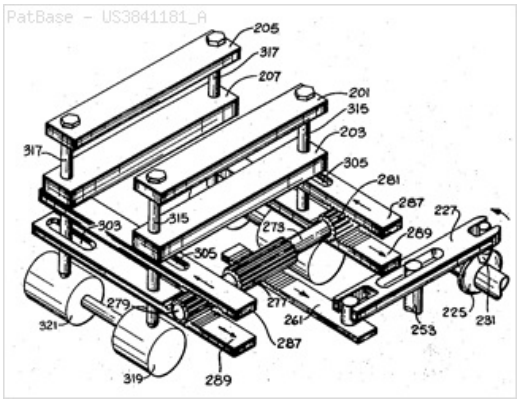
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Title: PRESS WITH MULTIPLE SHUTTLE FEED

Abstract: A press including a supporting structure, a platen mounted on the supporting structure for movement relative

thereto, and a cam drive for moving the platen toward and away from the stock to perform work operations on the stock. The cam drive includes a first cam for driving the platen up and a second cam for driving the platen down. Stock is fed to the press by a feed which includes two shuttles. The shuttles operate sequentially so that one shuttle moves through a feeding stroke while the other shuttle moves through a return stroke.

Classifications:
International (IPC 8-9): B21D28/00 B21D28/26 B21D43/10 B21D43/11 B21D5/01 B26F1/02 B30B1/26 (Advanced/Invention); B21D28/00 B21D43/04 B30B1/26 (Core/Invention)
International (IPC 1-7): B21D43/11 B21D5/00 B26F1/02 B30B1/26 B30B1/28 B30B15/00
CPC: Y10T83/0577 Y10T83/445 Y10T83/4564 Y10T83/4632 Y10T83/8841 B21D43/11 B21D28/002 B30B1/261
European: B21D28/00B B21D43/11 B30B1/26B
US: 83/206 83/250 83/277 83/5. 83/50 83/627



Family:

Publication number	Publication date	Application number	Application date
AU197472046 A1	19760205	AU19740072046	19740805
AU481298 A0	19980813	AU1998PP04812	19980724
AU481298 A1	19760205	AU19740072046D	19740805
DE2441681 A1	19760311	DE19742441681	19740830
FR2282996 A1	19760326	FR19740029769	19740830
FR2282996 B1	19790803	FR19740029769	19740830
GB1481325 A	19770727	GB19740035201	19740809
US3841181 A	19741015	US19720310634	19721129

Priority:

US19720310634 19721129 AU19740072046 19740805 GB19740035201 19740809
DE19742441681 19740830 FR19740029769 19740830 AU1998PP04812 19980724

Probable Assignee: REILLY M

Assignee(s): (std)**:** REILLY M ; VINSON P ; VINSON PAUL

Assignee(s): VINSON PAUL PARADISE VALLEY ARIZ V ST A ; VINSON PAUL PARADISE VALLEY ARIZ VSTA ; VINSON P US ; PAUL VINSON

Inventor(s): (std)**:** VINSON P ; VINSON PAUL

Inventor(s): PAUL VINSON ; VINSON P US ; VINSON PAUL PARADISE VALLEY ARIZ V ST A ; VINSON PAUL PARADISE VALLEY ARIZ VSTA

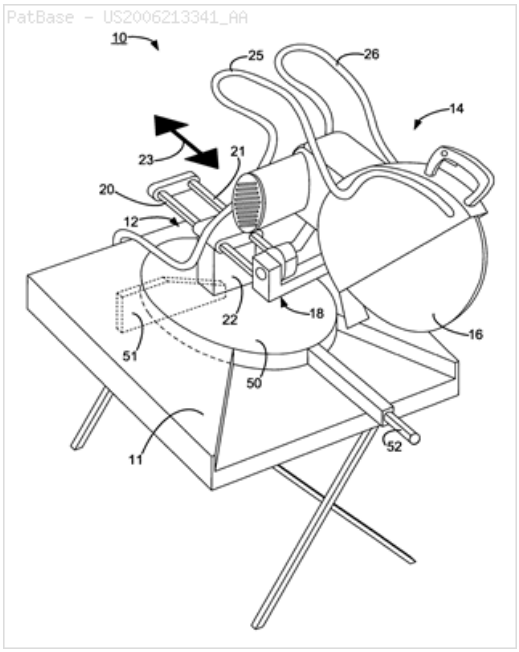
225) Family number: 33395639 (US2006213341A)

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Title: MOVABLE SAW APPARATUS AND METHOD

Abstract: Disclosed here is a movable cutting tool apparatus and/or methods for cutting workpieces; either generally including a cutting tool apparatus having a cutting tool unit support apparatus including at least a substantially stationary support structure and one or more rear-mount glide rails; wherein the one or more rear-mount glide rails are disposed within and are adapted to reciprocally and translationally slide within apertures defined in and through the substantially stationary support structure; a cutting tool unit which is supported by the support apparatus being connected to the one or more rear-mount glide rails at and extending from the rear side of the cutting tool unit, the cutting tool unit being movable therewith relative to the substantially stationary support structure; a cutting implement held by the cutting tool unit, whereby the cutting tool unit operates and controls the cutting implement; and, at least one fluid coolant and/or lubricant tube connected to the cutting tool unit, the at least one fluid coolant and/or lubricant tube being adapted to flow a fluid to the cutting implement in operation; wherein the cutting tool unit and the cutting implement are directly movable with the glide rails to provide reciprocal and translational movability for the cutting tool unit and the cutting implement.

Classifications:
International (IPC 8-9): B23D45/04 B23D47/02 B23D59/02 B26D5/08 B27B5/20 B28D1/04 (Advanced/Invention); B26D5/08 (Core/Invention)
CPC: B23D59/02 B23D45/048 B28D1/044 Y10T83/04 Y10T83/293 Y10T83/7697 Y10T83/7788 Y10T83/8773
European: B23D45/04A2A B23D59/02 B28D1/04D
US: 125/11.22 125/13.03 451/11 83/13 83/171 83/471.3 83/490 83/581



Family:

Publication number	Publication date	Application number	Application date
US2006213341 AA	20060928	US20050069340	20050301
US8910552 BB	20141216	US20050069340	20050301

Priority:

US20050069340 20050301

Probable Assignee: BLUE COLLAR VENTURES LLC

Assignee(s): (std)**:** BLUE COLLAR VENTURES L L C ; HOGAN MICHAEL E

Assignee(s): BLUE COLLAR VENTURES LLC

Inventor(s): (std)**:** HOGAN MICHAEL E

Inventor(s): HOGAN MICHAEL

Agent(s): HENSLEY KIM AND EDGINGTON LLC; PETER B; HAMILTON DESANCTIS AND CHA LLP

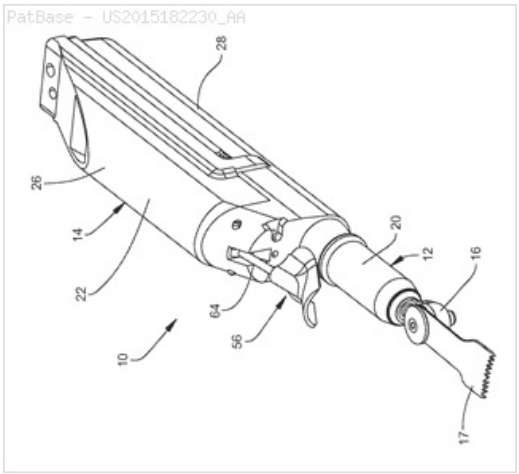
226) Family number: 55205648 (US2015182230A)

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Title: BATTERY AND CONTROL MODULE FOR BOTH ENERGIZING AND CONTROLLING A POWERED SURGICAL TOOL THAT IS RELEASABLY ATTACHED TO THE MODULE

Abstract: A battery and control module to which a powered surgical tool is releasably attached. Internal to the module there is: a cell for energizing the tool; a sensor for monitoring an operational state of the tool; a sensor for monitoring a trigger external to the module; and a control circuit. Based on the signals output by the sensors, the control circuit selectively applies energization signals from the cell to the power generating unit internal to the surgical tool. In some versions of the invention, the trigger is attached to the module.

Classifications:
International (IPC 8-9): A16B17/16 A61B17/14 A61B17/16 A61B17/32 A61B18/00 A61B19/00 A61B90/00 B25F5/00 B25F5/02 (Advanced/Invention);
A61B17/00 (Advanced/Non-invention)
International (IPC 1-7): A61B17/14 A61B17/16
CPC: A61B2017/00734 A61B17/14 A61B2017/00022 A61B2017/00221 A61B17/142 A61B17/1626 A61B17/1628 A61B90/03 B25F5/00 B25F5/02
US: 606/82



Family:

Publication number	Publication date	Application number	Application date
AU2013266240 AA	20131128	AU20130266240	20130523
AU2013266240 BB	20180405	AU20130266240	20130523
AU2013266240 BI	20180419	AU20130266240	20130523
AU2018204897 AA	20180726	AU20180204897	20180705
BR112014028926 A2	20171128	BR20141128926	20130523
CA2873788 AA	20141114	CA20132873788	20130523
CN104487007 A	20150401	CN201380038964	20130523

CN104487007 B	20170901	CN201380038964	20130523
CN107496003 A	20171222	CN201710695249	20130523
EP2852336 A2	20150401	EP20130731536	20130523
IN09985DN2014 A	20160527	IN2014DN09985	20141125
JP2015518748 T2	20150706	JP20150514194T	20130523
JP6224089 B2	20171101	JP20150514194T	20130523
US2015182230 AA	20150702	US20140548713	20141120
US2018360464 AA	20181220	US20180112042	20180824
US10076340 BB	20180918	US20140548713	20141120
WO13177423 A2	20131128	WO2013US42464	20130523
WO13177423 A3	20140313	WO2013US42464	20130523

Priority:

US20120650732P 20120523 AU20130266240 20130523 CN201380038964 20130523
WO2013US42464 20130523 US20140548713 20141120 AU20180204897 20180705
US20180112042 20180824

Probable Assignee: STRYKER CORP

Assignee(s): (std): STRYKER CORP

Assignee(s): STRYKER CORP2825 AIRVIEW BLVD.KALAMAZOOMI49002US ; BELAGALI KRISHNAMURTHY ; HASSLER WILLIAM L JR ; HERSHBERGER DAVID ; IRVINE MICHAEL

Inventor(s): (std): BELAGALI KRISHNAMURTHY ; DAVID HERSHBERGER ; HASSLER JR WILLIAM L ; HASSLER WILLIAM L JR ; HERSHBERGER DAVID ; IRVINE MICHAEL ; KRISHNAMURTHY BELAGALI ; MICHAEL IRVINE ; WILLIAM L HASSLER JR

Inventor(s): WILLIAM L HASSLER ; IRVINE MICHAELUS ; JR ; HERSHBERGER DAVIDUS ; HASSLER WILLIAM L JRUS ; HASSLER WILLIAM L ; HASSLER JR ; BELAGALI KRISHNAMURTHYUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP; ROETHINGER RAINER; HOWARD AND HOWARD ATTORNEYS PLLC; GOLDENBERG DAVID S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

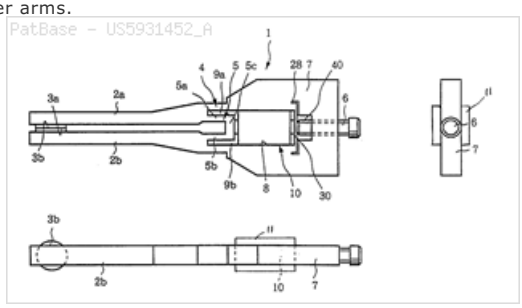
227) Family number: 11656651 (US5931452A)

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Title: WIRE CLAMPER FOR BONDING APPARATUS

Abstract: A wire clamper for a bonding apparatus includes a pair of clamper arms having tip portions, respectively. The tip portions clamp or release a wire therebetween when at least one of the clamper arms is operated. The wire clamper further includes a giant-magnetostrictive actuator having a giant-magnetostrictive alloy and a coil wound around the giant-magnetostrictive alloy for generating a magnetic field. The giant-magnetostrictive alloy is displaced according to the magnetic field generated by the coil so as to operate at least one of the clamper arms.

Classifications:
International (IPC 8-9): B23K20/00 H01L21/60 H01L41/12 (Advanced/Invention);
B23K20/00 H01L21/02 H01L41/00 (Core/Invention)
International (IPC 1-7): B25B1/06 H01L21/60 H01L41/12
CPC: H01L24/48 H01L24/85 B23K20/005 H01L24/45 H01L24/78 H01L2224/45124 H01L2224/45144 H01L2224/48091 H01L2224/78301 H01L2224/786 H01L2224/851 H01L2924/01006 H01L2924/01013 H01L2924/01033 H01L2924/01079 H01L2924/01082 H01L2924/01105
European: B23K20/00D2B H01L24/78 H01L24/85 T01L224/45124 T01L224/45144 T01L224/48091 T01L224/78301 T01L224/78600 T01L224/85100 T01L24/45 T01L924/01004 T01L924/01006 T01L924/01013 T01L924/01079 T01L924/01105
US: 269/216 269/224 269/254.00R 269/254R



Family:

Publication number	Publication date	Application number	Application date
JP10092863 A2	19980410	JP19960265164	19960913
US5931452 A	19990803	US19980021549	19980210

Priority:

JP19960265164 19960913 US19980021549 19980210

Probable Assignee: ETREMA PRODUCTS INC A US CORP

Assignee(s): (std): MORITEX CORP ; NIDEC TOSOK CORP ; ETREMA PRODUCTS INC ; TOSOK CORP

Assignee(s): ETREMA PRODUCTS INC A US CORP ; MORITEX A JAPANESE CORP ; TOSOK A JAPANESE 215 SOUBUDAI 2 CHOME ZAMA SHIKANA ; TOSOK A JAPANESE CORP

Inventor(s): (std): NAKATOMI YOSHIHARU ; MATSUI YASUHIRO

228) Family number: 17074654 (WO9707919A1)

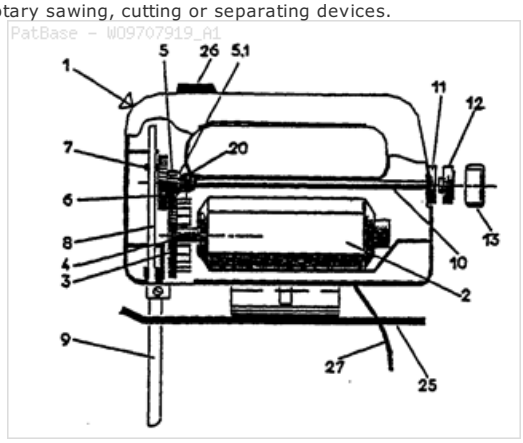
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Title: SAWING, CUTTING OR SEPARATING DEVICE

Abstract: The object of the invention is to develop a sawing, cutting or separating device such that it is transportable, can be constructed relatively easily, and satisfies all the demands of the user as concerns various operating processes, such as boring, milling, circular sawing, grinding, cutting or compass sawing. A device of this type is in particular a compass saw which comprises a hand enclosure and an electric motor (2) with a switch (26), the output shaft of this motor acting on a gear (3) which drives a circular driven disc (6) on which a driver pin (7) is eccentrically disposed and is guided in a transverse elongate hole (8.1) in a lifting element (8) which brings about the lifting movement of the compass saw-blade (9). A further object of the invention is that the device and its stool or table-like stand (30) should be easily transportable. In order to achieve these objects, the output shaft of the drive motor (2) co-operates with at least one further rotary tool connection device (11; 21; 18), the output of the one connection preferably generating a linear movement for a compass saw and the

output of the other connection generating a rotating movement for rotary sawing, cutting or separating devices.

Classifications:
International (IPC 8-9): B23D57/00 B25H1/00 B25H1/12 B25H3/00 B27C9/00 (Advanced/Invention);
B23D57/00 B25H1/00 B25H3/00 B27C9/00 (Core/Invention)
International (IPC 1-7): B23D45/10 B23D49/14 B23D57/00 B24B27/06 B25F3/00 B27B19/00 B27C9/00
CPC: B23D57/0076 B25H1/005 B25H1/12 B25H3/006 B27C9/005
European: B23D57/00F B25H1/00C3B B25H1/12 B25H3/00C B27C9/00B



Family:

Publication number	Publication date	Application number	Application date
AU199669290 A1	19970319	AU19960069290	19960827
DE29513967 U1	19970227	DE19952013967U	19950831
WO9707919 A1	19970306	WO1996EP03772	19960827

Priority:
DE19952013967U 19950831 WO1996EP03772 19960827

Probable Assignee: HESSABI IRADJ DIPL ING
Assignee(s): (std): HESSABI IRADJ ; IRADJ HESSABI
Assignee(s): HESSABI IRADJ DIPL ING ; HESSABI IRADJ DIPL ING 33813 OERLINGHAUSEN DE
Inventor(s): (std): HESSABI IRADJ
Inventor(s): IRADJ HESSABI
Designated states: AT AU BE CA CH CN DE DK ES FI FR GB GR IE IT JP LU MC NL PT RU SE US

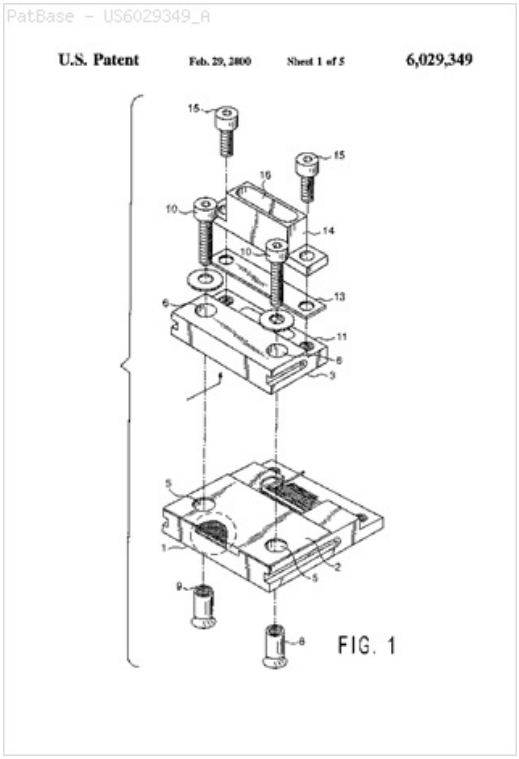
229) Family number: 11248660 (US6029349A)

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Title: INKJET PRINT-HEAD

Abstract: A method of making a number of adjacent ducts with a required duct side and duct spacing in a duct plate for an inkjet print-head. The method includes the steps of pressing a non-rotating toothed bit from a starting position into the duct plate, moving the bit and the duct plate relatively to one another in such manner that a first groove is cut in the duct plate and returning the bit and/or duct plate to the starting position. The bit is then moved relatively to the duct in a direction of the first groove in such a manner that a subsequent tooth of the bit situated next to the first tooth comes to lie just above the first groove. These steps are then repeated in such manner that the depth of the grooves correspond to the required duct depth.

Classifications:
International (IPC 8-9): B41J2/045 B41J2/055 B41J2/16 (Advanced/Invention);
B41J2/045 B41J2/055 B41J2/16 (Core/Invention)
International (IPC 1-7): B23D1/00 B26D3/06 B41J2/01 B41J2/045 B41J2/055 B41J2/14 B41J2/16
CPC: Y10T29/49401 B41J2/1632 B41J2/1612 B41J2002/14379 Y10T83/0304
European: B41J2/16D3 B41J2/16M5 L41J2/14M
US: 29/890.1 83/875



Family:

Publication number	Publication date	Application number	Application date
DE69717746 D1	20030123	DE19976017746	19970905
DE69717746 T2	20030710	DE19976017746T	19970905

EP0830946 A1	19980325	EP19970202744	19970905
EP0830946 B1	20021211	EP19970202744	19970905
JP10086370 A2	19980407	JP19970245338	19970910
JP2872201 B2	19990317	JP19970245338	19970910
NL1004016 C2	19980313	NL19961004016	19960912
US6029349 A	20000229	US19970928420	19970912

Priority:

NL19961004016 19960912

Probable Assignee: OCE TECHNOLOGIES BV

Assignee(s): (std)**:** OCE TECH BV

Assignee(s): OCE TECHNOL BV ; OCE TECHNOLOGIES B V ; OCE TECHNOLOGIES B V VENLO ; OCE TECHNOLOGIES BV ; OCE TECHNOLOGIES ST URBANUSWEG BV ; OSE TEKUNOROJIIZU BV

Inventor(s): (std)**:** BERKHOUT RONALD ; GIELEN GODEFRIDUS G H ; GIELEN GODEFRIDUS GERARDUS HUB

Inventor(s): GIELEN GODEFRIDUS GERARDUS HUBERTUS ; GODEFRIDUS GERARDUS HUBERTUS GIELEN ; GODEFURIDOSU GERARUDOSU FUBERUTOSU JEREN ; GODEFURIDOUSU GERARUDOUSU FUBERUTOUSU JEREN ; RONALD BERKHOUT ; RONALD BERUKUHOUTO ; RONARUDO BERUKUHOTO

Designated states: DE FR GB NL

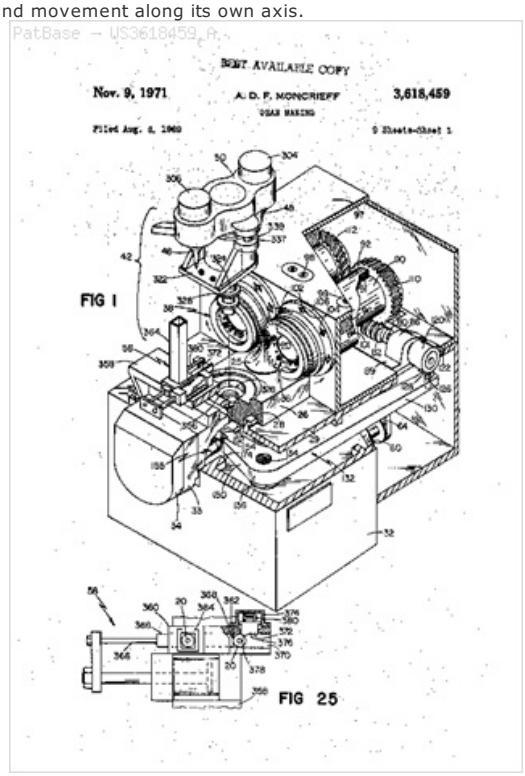
230) Family number: 1304661 (US3618459A)

© PatBase

Title: GEAR MAKING

Abstract: ABSTRACT OF THE DISCLOSURE
Loading and unloading workpieces in gear making ap-paratus having workpiece support adjacent a cutter, with a pair of workpiece holders mounted on a carrier for oscillation with respect to the support and furtherwith respect to a workpiece supply station, the carrier inter-mittently undergoing rotation about and movement along its own axis.

Classifications:
International (IPC 8-9): B23F21/12 B23F23/04 B23F5/20 B23Q11/00 (Advanced/Invention); B23F21/00 B23F23/00 B23F5/00 B23Q11/00 (Core/Invention)
International (IPC 1-7): B23F21/00 B23F21/12 B23F23/04 B23F5/00 B23F5/20 B23F5/22 B26D1/00 B26D1/12
CPC: B23Q11/0035 B23F21/128 B23F5/20 B23F5/205 B23F21/12 B23F23/04 Y10T409/101431 Y10T409/108586 Y10T407/17 Y10T409/100795
European: B23F21/12 B23F21/12D2 B23F23/04 B23F5/20 B23F5/20P B23Q11/00D2
US: 29/103 407/20 409/10 409/55 409/6 90/1 90/3



Family:

Publication number	Publication date	Application number	Application date
BE742001 A	19700504		19691120
CA939177 A1	19740101	CA19720137681	19720321
CA939177 A2	19740101	CA19720137681	19720321
CH533483 A	19730215	CH19690017369	19691121
DE1958948 A1	19710218	DE19691958948	19691124
DE1966015 A1	19710422	DE19691966015	19691124
FR2024205 A1	19700828	FR19690040607	19691125
GB1285070 A	19720809	GB19690056159	19691117
US3595130 A	19710727	US19690844925	19690725
US3618189 A	19711109	US19690845380	19690728
US3618459 A	19711109	US19690848599	19690808

Priority:

US19680778579 19681125 US19690844925 19690725 US19690845380 19690728
US19690845599 19690808 US19690848599 19690808 CA19690068357 19691125
CA19720137681 19720321

Probable Assignee: BIRD ISLAND INC

Assignee(s): (std)**:** BIRD ISLAND INC

Assignee(s): GLEASON WORKS ; GLEASON WORKS ROCHESTE NY A CORP ; MAKER PAUL ; BIRD ISLAND

Inventor(s): (std)**:** DONALD FREDERICK MONCRIEFF ALE ; FREDERICK MONCRIEFF ALEXANDER ; MAKER PAUL ;

MONCRIEFF ALEXANDER D F ; PAUL MAKER

Inventor(s): FREDERICK MONCRIEFF ALEXANDER DONALD ; ALEXANDER D F MONCRIEFF ; ALEXANDER DF MONCRIEFF

231) Family number: 7953665 (DE4027577A1)

Title: Cutter test bed for cutting tool and cut material properties - enables programming of relative tool-material motion and evacuates number of cutting strokes by computer

Abstract: An arrangement for testing the cutting and wear properties of cutting tools loaded with constant but adjustable application forces enables, for each orientation, the cut material (2) to be wholly separated or cut to a defined depth using freely programmable relative motion between the material and the tool (1) which is heated to a controlled temp. The actual number of cutting strokes is counted and evaluated by a computer (26) which determines the total cutting distance or test cutting parameters and displays (27) selected data. USE/ADVANTAGE - For rapid, convenient testing of cutting tools or cut material under representative conditions.

Classifications:
International (IPC 8-9): B23Q17/09 G01N3/58 (Advanced/Invention); B23Q17/09 G01N3/00 (Core/Invention)
International (IPC 1-7): B26D7/27 G01N3/14 G01N3/58
CPC: B23Q17/09 G01N3/58
European: B23Q17/09 G01N3/58

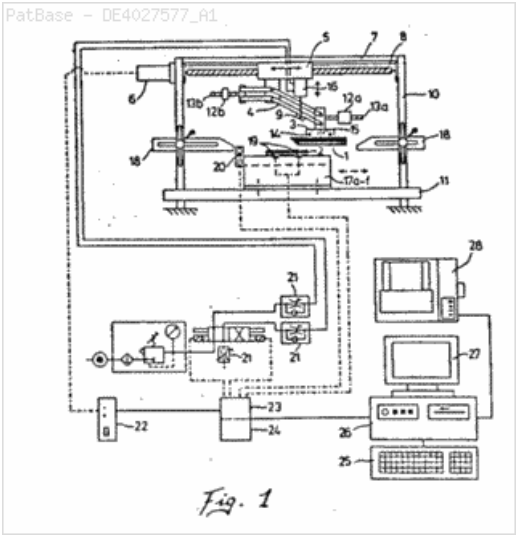


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DE4027577 A1	19910103	DE19904027577	19900831

Priority:
DE19904027577 19900831

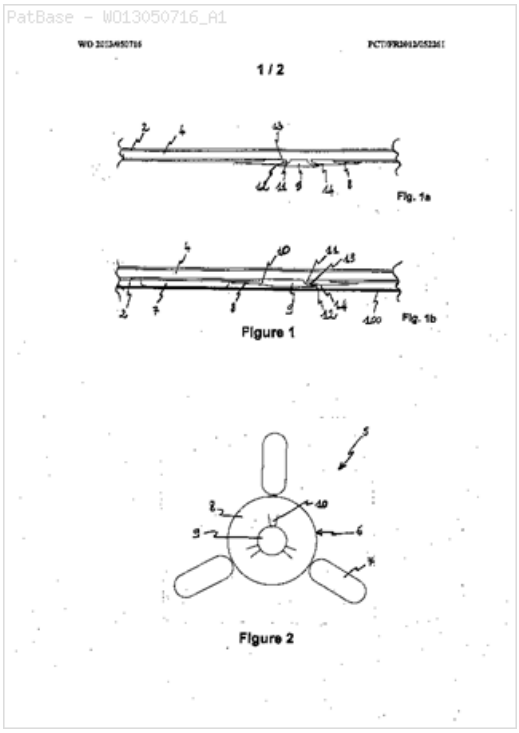
Probable Assignee: SPIEGELMACHER KURT DIPL ING
Assignee(s): (std): SPIEGELMACHER KURT DIPL ING
Assignee(s): SPIEGELMACHER KURT DIPL ING 6750 KAISERSLAUTERN DE
Inventor(s): (std): WUESTENBERG DIETER PROF DR ING ; SPIEGELMACHER KURT DIPL ING ; SCHEPPLER JUERGEN
Inventor(s): SPIEGELMACHER KURT DIPL ING 6750 KAISERSLAUTERN DE ; SCHEPPLER JUERGEN 6500 MAINZ DE

232) Family number: 53485666 (WO13050716A1)

Title: MULTI-WAFER HOLDER

Abstract: The invention relates to a device for holding wafers (100) during the industrial use thereof. The device comprises at least one arm which is connected to a guide system and which has the general shape of a blade, said arm comprising first and second walls (2) between which a pressurised gas feed circuit (4) is arranged, in which one of said walls is provided with at least one holding member. Such a holding member comprises: i) a nozzle (6) for releasing gas at high speed, supplied by the aforementioned circuit, in which the outlet port (12) is extended by an element having a continuous curved surface which is oriented progressively in a plane that is substantially parallel to the wall (2), such that the gas flow released from the nozzle remains tangentially attached to the wall; and ii) a set of pads (7) secured to the wall close to the nozzle, said pads holding the wafer at a pre-determined distance from the wall (2). The invention also relates to a method for moving wafers (100) from a first position to a second position using such a holding device.

Classifications:
International (IPC 8-9): B25J15/06 H01L21/68 H01L21/683 (Advanced/Invention)
CPC: H01L21/6838



Family:

Publication number	Publication date	Application number	Application date
FR2980994 A1	20130412	FR20110059064	20111007
FR2980994 B1	20151127	FR20110059064	20111007
WO13050716 A1	20130411	WO2012FR52261	20121005

Priority:

FR20110059064 20111007

Probable Assignee: SEMCO ENGINEERING

Assignee(s): (std)**:** MOROTE JACQUES ; PELLEGRIN YVON ; SEMCO ENGINEERING

Inventor(s): (std)**:** MOROTE JACQUES ; PELLEGRIN YVON

Inventor(s): YVON PELLEGRIN ; JACQUES MOROTE

Agent(s): RAVINA SA; LEFEVRE MARIANNE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

233) Family number: 30664667 (US2008086854A)

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Title: ARTICULATED ELEMENTS AND METHODS FOR USE

Abstract: The present invention relates to a one-step fastening device, a process for creating a fastener utilizing such a device, and the end fastener produced thereby. In this regard, the invention uses an outer, hollow fastener material that can be partially compressed under tension at designated areas (i.e., a compression member) and an inner activation or tensioning member. The compression of the outer fastener material occurs at one or more flexible areas or compression features specifically located on the longitudinal axis of the material. As a result, the outer compression member is capable of being distorted or bent under tension to produce a predetermined configuration. The device described herein has the ability to form specific and controllable fasteners of designated shapes and configurations. Methods for fastening, snaring, gripping, cutting, and manipulating material using the device in a confined space are also provided.

Classifications:

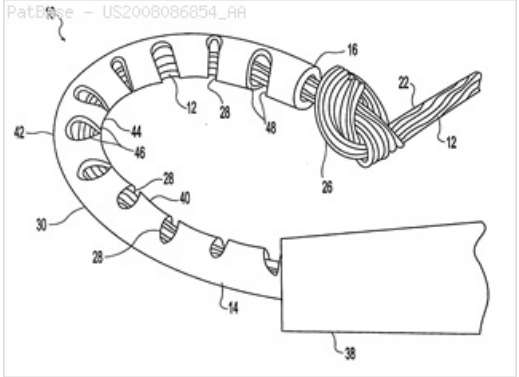
International (IPC 8-9): A61B17/064 A61B17/08 A61B17/22 A61B17/34 F16G11/02 (Advanced/Invention); A61B17/00 A61B17/11 A61B17/12 A61B17/122 A61B17/28 A61F2/00 (Advanced/Non-invention); A61B17/064 A61B17/22 A61B17/34 F16G11/00 (Core/Invention); A61B17/00 A61B17/03 A61B17/12 A61B17/28 A61F2/00 (Core/Non-invention)

International (IPC 1-7): A44B21/00 A61B17/12 A61M37/00 B25B F16G11/00

CPC: Y10T24/3787 Y10T24/44231 Y10T428/1334 A61B17/3478 A61B17/064 A61B17/0644 A61B17/11 A61B17/12022 A61B17/12109 A61B17/12172 A61B17/122 A61B17/221 A61B2017/00004 A61B2017/003 A61B2017/00867 A61B2017/22034 A61B2017/2927 A61F2/2481

European: A61B17/064 A61B17/12P5B A61B17/12P7W1 A61B17/221 A61B17/34Q K61B17/00A K61B17/00E3G K61B17/00S12 K61B17/064D K61B17/11 K61B17/122 K61B17/12P K61B17/22E6 K61B17/29J2 K61F2/24W2

US: 24/482 24/482S 24/715.3 24/715.300P 428/12 428/12S 428/35.2 428/35.200S 606/151



Family:

Publication number	Publication date	Application number	Application date

AU2003297908 AA	20040630	AU20030297908	20031210
AU2003297908 AH	20040630	AU20030297908	20031210
US2008086854 AA	20080417	US20030538459	20031210
US8133241 BB	20120313	US20030538459	20031210
WO04052594 A2	20040624	WO2003US39511	20031210
WO04052594 A3	20041007	WO2003US39511	20031210

Priority:

US20020432558P 20021210 US20020432563P 20021210 US20020432563P 20021210
US20030538459 20031210 WO2003US39511 20031210 WO2003US39511 20031210

Probable Assignee: BATTELLE MEMORIAL INST

Assignee(s): (std)**:** HANNA WILLIAM T ; HAUBERT THOMAS A ; GEGENHEIMER C MICHAEL ; STEIN HOLLY A ; SCHELHORN JEAN E ; KELLEY BRIAN C ; TAYLOR KEVIN M ; HAUBERT THOMAS D ; GLEESON JAMES B ; POLL WAYNE L ; ROSENBERG DOV S ; SMITH ROGER W ; HOFFMAN PANCAKE MARY ; BARTILSON B MATT ; BATTELLE MEMORIAL INST ; BATTELLE MEMORIAL INSTITUTE ; BOYD ROBERT R ; FAULKNER LYNN

Assignee(s): GEGENHEIMER C ; BARTILSON B

Inventor(s): (std)**:** BARTILSON B MATT ; BOYD ROBERT R ; FAULKNER LYNN ; GEGENHEIMER C MICHAEL ; HANNA WILLIAM T ; HAUBERT THOMAS A ; SCHELHORN JEAN E ; STEIN HOLLY A ; TAYLOR KEVIN M ; SMITH ROGER W ; ROSENBERG DOV S ; POLL WAYNE L ; KELLEY BRIAN C ; HOFFMAN PANCAKE MARY ; HAUBERT THOMAS D ; GLEESON JAMES B

Inventor(s): GEGENHEIMER CMICHAEL ; BARTILSON BMATT ; THOMAS A HAUBERT ; WILLIAM T HANNA ; HOLLY A STEIN ; JEAN E SCHELHORN ; LYNN FAULKNER ; ROBERT R BOYD ; GEGENHEIMER C ; B ; B MATT BARTILSON ; BARTILSON B ; C ; C MICHAEL GEGENHEIMER

Agent(s): BATTELLE MEMORIAL INSTITUTE; BATTELLE MEMORIAL INST; FAY SHARPE LLP; RICHARD M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

234) Family number: 70561667 (WO18134751A1)

© PatBase

Title: APPARATUS FOR SCORING A LAYER ADHESIVELY PLACED ON A SUBSTRATE AND METHOD OF SEPARATING SUCH A LAYER

Abstract: The present invention provides an apparatus for scoring a layer, in particular a layer of an adhesive film, foil, or sheet, adhesively placed on a substrate. The apparatus comprises a structural body, a blade movably received in the structural body, a spring element configured for loading the blade with a predetermined scoring force and a slide shoe arranged at a distal end of the structural body. The slide shoe comprises an opening for the blade to extend through the opening for scoring a layer while sliding the apparatus over the layer. Furthermore, the slide shoe comprises, at least at one side, a plurality of protrusions for establishing a defined sliding contact. In addition, the invention provides a corresponding method of separating a layer.

Classifications:
International (IPC 8-9): B26D3/08 (Advanced/Invention);
B29C59/00 (Advanced/Non-invention)
CPC: B26D3/08 B26B1/08 B29C59/007 B26B29/02 B26D7/0006
B26D7/26

PatBase - WO18134751_A1

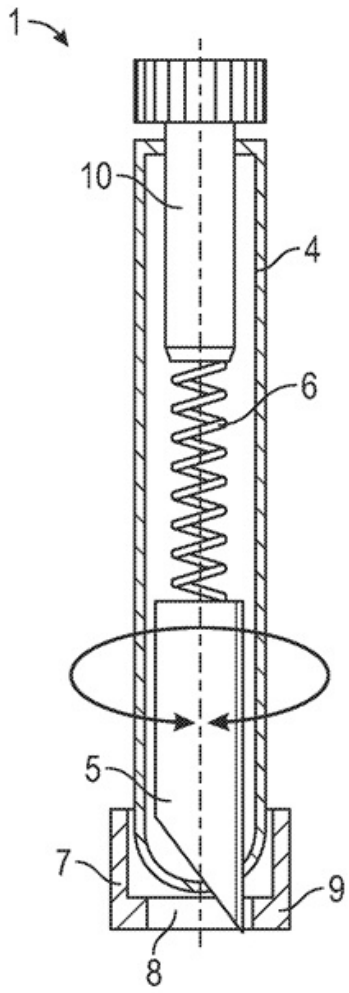


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
EP3351361 A1	20180725	EP20170152099	20170119
WO18134751 A1	20180726	WO2018IB50294	20180117

Priority:

EP20170152099 20170119

Probable Assignee: 3M CO

Assignee(s): (std)**:** 3M INNOVATIVE PROPERTIES CO

Assignee(s): 3M CO

Inventor(s): (std)**:** RUDEK DAVID ; KELLER THOMAS ; ZIMMER CHRISTOPH ; COBLITZ BURKHART ; RUDEK DAVID M

Agent(s): BERGEN KATJA; KNECHT HAROLD C III ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

235) Family number: 73128670 (US2019039838A)

© PatBase

Title: ROBOTIC GRIPPER FOR HANDLING MEAT PRODUCTS

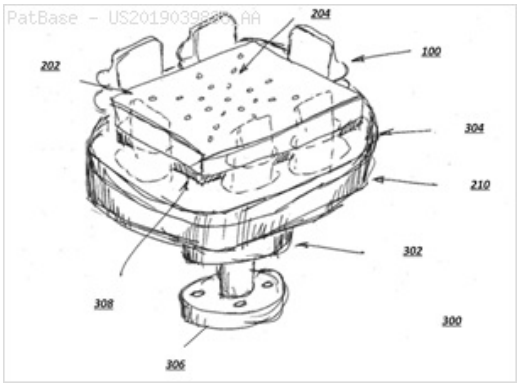
Abstract: Robotic grippers have been employed to grasp and manipulate target objects. One task posing relatively unique problems is the handling of meat products, which can be difficult to grasp with a conventional gripper due to the surface texture and malleability of the meat, among other factors. Exemplary embodiments described herein provide robotic grippers having one or more fingers and a plate, the plate optionally providing suction capabilities. The actuators apply a small force to the edges of the grasping target. In suctioned embodiments, an array of suction holes within the plate support the center of the grasping target by applying a light vacuum force at many points along the surface thereof In non-suctioned embodiments, the actuators grip the edges of the grasping target and the plate makes conformal contact with the grasping target to prevent it from folding or otherwise deforming or disintegrating from the gripping force of the actuators.

Classifications:

International (IPC 8-9): B25J11/00 B25J15/00 B25J15/06 B25J15/12 B25J9/14 B65G47/90 (Advanced/Invention)

CPC: B65G47/908 B65G2201/0202 B25J15/0023 B25J15/0616

B25J9/142 B25J11/0045 B25J15/0014 B25J15/065 B25J15/12



Family:

Publication number	Publication date	Application number	Application date
US2019039838 AA	20190207	US20180053213	20180802
WO19028242 A1	20190207	WO2018US44987	20180802

Priority:

US20170540747P 20170803 US20170542059P 20170807 US20180053213 20180802

Probable Assignee: SOFT ROBOTICS INC

Assignee(s): (std)**:** SOFT ROBOTICS INC

Inventor(s): (std)**:** CURHAN JEFFREY ; WOMERSLEY THOMAS ; LESSING JOSHUA AARON ; LESSING JOSHUA

Agent(s): FAGAN MATTHEW T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

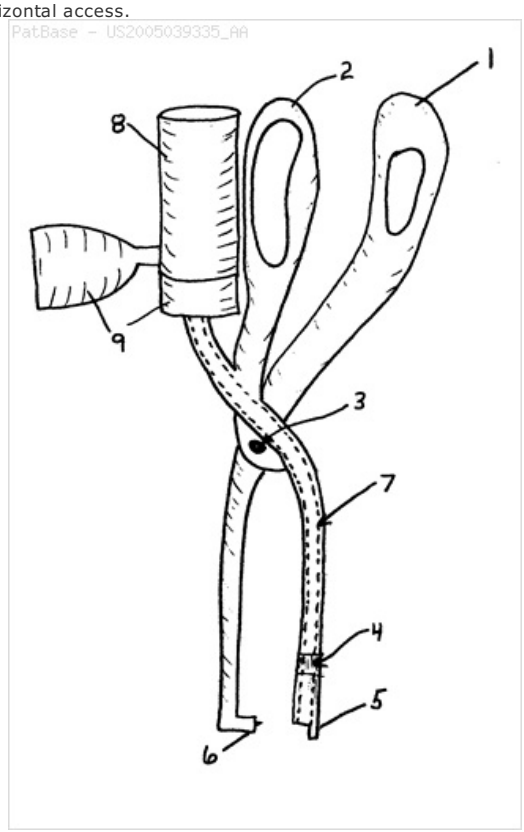
236) Family number: 31712678 (US2005039335A)

© PatBase

Title: CANDLE WICK MAINTENANCE INSTRUMENT

Abstract: An apparatus and method suitable to simultaneously trim the burnt wick of a candle to the proper length and remove and hold the wick clipping from a candle that has limited horizontal access.

Classifications:
International (IPC 8-9): B26B17/00 B26B27/00 (Advanced/Invention); B26B17/00 B26B27/00 (Core/Invention)
International (IPC 1-7): B26B1/00
CPC: B26B17/00 B26B27/00
European: B26B17/00 B26B27/00
US: 30/134 30/187



Family:

Publication number	Publication date	Application number	Application date
US2005039335 AA	20050224	US20030642817	20030819

Priority:

US20030642817 20030819

Probable Assignee: FORSBERG BRUCE WILLIAN

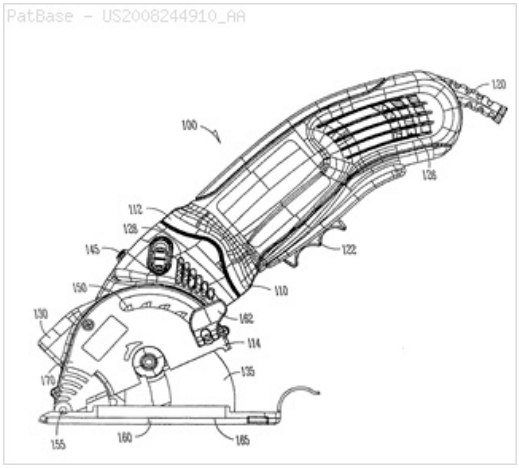
Assignee(s): (std): FORSBERG BRUCE WILLIAN ; FORSBERG LINDA KAY
Inventor(s): (std): FORSBERG BRUCE WILLIAN ; FORSBERG LINDA KAY
Inventor(s): FORSBERG BRUCE ; FORSBERG LINDA
Agent(s): BRUCE FORSBERG

237) Family number: 32482680 (US2008244910A)

Title: HAND-HELD CIRCULAR SAW, IN PARTICULAR PLUNGE-CUT SAW

Abstract: A power saw (100) including a body housing (112) enclosing a motor (202), a saw blade (150) operatively coupled to the motor (202), and a cutting head (114) at least partially covering the saw blade (150), wherein the cutting head (114) is rotatable relative to the body housing (112) and is configured to be set relative to the body housing (112) in at least two different fixed positions.

Classifications:
International (IPC 8-9): B23D45/12 B23D45/16 B23D47/00 B23D47/02 B23D47/08 B23D59/00 B25F5/02 B27B9/02 B27B9/04 B27G19/04 (Advanced/Invention);
B23D45/00 B23D47/00 B23D59/00 B25F5/00 B27B9/00 B27G19/00 (Core/Invention)
International (IPC 1-7): B23D45/12 B23D47/00 B23D47/02 B23D59/00 B27B9/02 B27G19/04
CPC: Y10T83/828 Y10T83/853 B27B9/02 B23D45/122 B23D47/02 B23D59/003 B23D59/006 B25F5/021 B27G19/04
European: B23D45/12B B23D47/02 B23D59/00B1A B23D59/00C B25F5/02B B27B9/02 B27G19/04
US: 30/123 30/123P 30/377 30/377P 30/377S 30/390 30/390S 30/391 30/391S 30/505 30/505S 362/119 362/119S 83/520 83/520S 83/522.15 83/522.150S



Family:

Publication number	Publication date	Application number	Application date
CA2568529 AA	20061128	CA20052568529	20050531
EP1768813 A2	20070404	EP20050756117	20050531
US2008244910 AA	20081009	US20050569745	20050531
US2009313831 AA	20091224	US20090556239	20090909
US2010325903 AA	20101230	US20100799165	20100420
WO05118195 A2	20051215	WO2005US19041	20050531
WO05118195 A3	20060216	WO2005US19041	20050531

Priority:

US20040575721P 20040528 US20050569745 20050531 WO2005US19041 20050531
US20070569745 20070924 US20090556239 20090909 US20100799165 20100420

Probable Assignee: SCIENTIFIC MOLDING LTD CORP
Assignee(s): (std): PATEL CHETAN ; SCIENT MOLDING CORP LTD
Assignee(s): SCIENTIFIC MOLDING LTD CORP
Inventor(s): (std): PATEL CHETAN
Agent(s): GOWLING LAFLEUR HENDERSON LLP; SCHWEGMAN LUNDBERG AND WOESSNER PA; SPRIEGEL AND ASSOCIATES
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

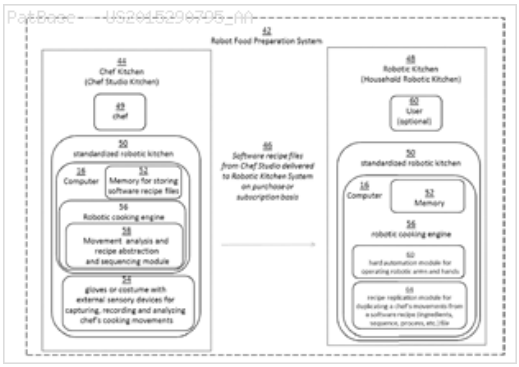
238) Family number: 60176686 (US2015290795A)

Title: METHODS AND SYSTEMS FOR FOOD PREPARATION IN A ROBOTIC COOKING KITCHEN

Abstract: The present disclosure is directed to methods, computer program products, and computer systems for instructing a robot to prepare a food dish by replacing the human chef's movements and actions. Monitoring a human chef is carried out in an instrumented application-specific setting, a standardized robotic kitchen in this instance, and involves using sensors and computers to watch, monitor, record and interpret the motions and actions of the human chef, in order to develop a robot-executable set of commands robust to variations and changes in the environment, capable of allowing a robotic or automated system in a robotic kitchen to prepare the same dish to the standards and quality as the dish prepared by the human chef.

Classifications:
International (IPC 8-9): A47J A47J27/62 A47J43/04 A47J44/00 B25J11/00 B25J13/00 B25J13/02 B25J13/08 B25J19/02 B25J3/04 B25J9/00 B25J9/16 B25J9/18 B25J9/22 B62D57/032 G05B G05B19/42 (Advanced/Invention)
CPC: B25J9/0087 B62D57/032 Y10S901/01 Y10S901/03 Y10S901/28 G05B2219/40116 B25J3/04 B25J9/0018 B25J11/009 B25J13/02 B25J19/02 G05B19/42 G05B2219/36184 G05B2219/40391 G05B2219/40395 B25J9/163 B25J9/0081
US: 700/245 700/250 700/257 901/1 901/28 901/3

PatBase - US20150290795-AA



Family:

Publication number	Publication date	Application number	Application date
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AU2015311234 AA	20170223	AU20150311234	20150819
CA2933095 AA	20160608	CA20152933095	20150220
CA2959698 AA	20170301	CA20152959698	20150819
CN106030427 A	20161012	CN201580009171	20150220
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HK1232421 A1	20180112	HK20170106298	20170623
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RU2016134234 A3	20180907	RU20160134234	20150220
RU2017106935 A	20180903	RU20170106935	20150819
RU2017106935 A3	20190212	RU20170106935	20158119
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US2018029222 AA	20180201	US20170782203	20171012
US2018043526 AA	20180215	US20170782154	20171012
US2018147718 AA	20180531	US20170793471	20171025
US2018257219 AA	20180913	US20170782230	20171012
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WO15125017 A3	20160602	WO2015IB00379	20150220
WO16034269 A1	20160310	WO2015EP01704	20150819

Priority:

US20140942559P 20140220
US20140990431P 20140508
US20140013691P 20140618
US20140055799P 20140926
US20140090310P 20141210
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US20170782230 20171012
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US20140013190P 20140617
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RU20160134234 20150220
US20140136624P 20150322
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US20150829579 20150818
US20170782203 20171012
US20170793471 20171025

Probable Assignee: MBL LTD

Assignee(s): (std): MBL LTD ; OLEYNIK MARK

Inventor(s): (std): OLEYNIK MARK

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; PLATZOEDER MICHAEL CHRISTIAN; MARKS AND CLERK; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KONDO NAOKI; UESUGI HIROSHI; DESHIMARU TAKESHI; PETER; DENTONS US LLP; KORENBERG ALEXANDER TAL ET AL; WALLINGER RICKER SCHLOTTER TOSTMANN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

239) Family number: 50621686 (CA2762156A)

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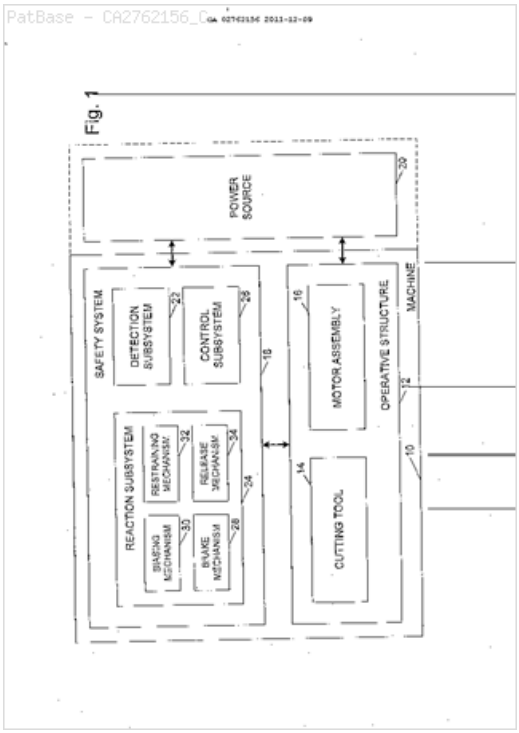
Title: SAFETY SYSTEMS FOR POWER EQUIPMENT

Abstract: Safety systems for power equipment are disclosed. The safety systems include a detection system adapted to detect a dangerous condition between a person and a working portion of a machine, such as accidental contact with the working portion, and a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of the dangerous condition by the detection system. A motion detection system

is adapted to detect motion of the working portion and to disable the reaction system when the working portion is not moving. The motion detection system may include a sensor. The woodworking machine may take the form of a saw, the working portion may be a blade adapted to cut when spinning, and the dangerous condition may be a person contacting the blade.

Classifications:

International (IPC 8-9): B23Q11/00 B26D5/00 B27B13/14 B27B19/00 B27B5/38 B27G21/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CA2762156 AA	20010412	CA20002762156	20000929
CA2762156 C	20141209	CA20002762156	20000929

Priority:

US19990157340P 19991001
US20000182866P 20000216
US20000225056P 20000814
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US20000225170P 20000814
US20000225200P 20000814
US20000225201P 20000814
US20000225206P 20000814
US20000225210P 20000814
US20000225211P 20000814
US20000225212P 20000814
US20000233459P 20000918
CA20002660280 20000929
CA20002762156 20000929
CA20122660280 20120110

Probable Assignee: SD3 LLC

Assignee(s): (std): SD3 LLC

Assignee(s): JENSEN JOEL F ; KIM SUNG H ; GASS STEPHEN F ; MCDONALD ANWYL M ; JOHNSTON ANDREW L ; SCHRAMM BENJAMIN B ; SD3 LLC22409 NEWLAND ROADWILSONVILLEOR97070US ; BETTS LACROIX JONATHAN N ; CHAMBERLAIN ROBERT L ; D ASCENZO DAVID S ; FANNING DAVID A ; FULMER J DAVID

Inventor(s): (std): BETTS LACROIX JONATHAN N ; CHAMBERLAIN ROBERT L ; D ASCENZO DAVID S ; FANNING DAVID A ; FULMER J DAVID ; GASS STEPHEN F ; JENSEN JOEL F ; JOHNSTON ANDREW L ; KIM SUNG H ; MCDONALD ANWYL M ; SCHRAMM BENJAMIN B

Inventor(s): SCHRAMM BENJAMIN BUS ; MCDONALD ANWYL MUS ; KIM SUNG HUS ; JOHNSTON ANDREW LUS ; JENSEN JOEL FUS ; GASS STEPHEN FUS ; FULMER J DAVIDUS ; FANNING DAVID AUS ; D ASCENZO DAVID SUS ; CHAMBERLAIN ROBERT LUS ; BETTS LACROIX JONATHAN NUS

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP

240) Family number: 61180689 (US2016096280A)

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Title: SHAVING DEVICE

Abstract: A shaving device comprising a head assembly having a support member and a blade cartridge. The support member is configured to be detachably coupled to a handle. The blade cartridge has a first and a second face wherein at least one of the first or second faces comprises at least one razor blade. The blade cartridge is configured to be rotatably coupled to the support member about a pivot axis such that the blade cartridge is pivotable by a user to select one of the first or second faces.

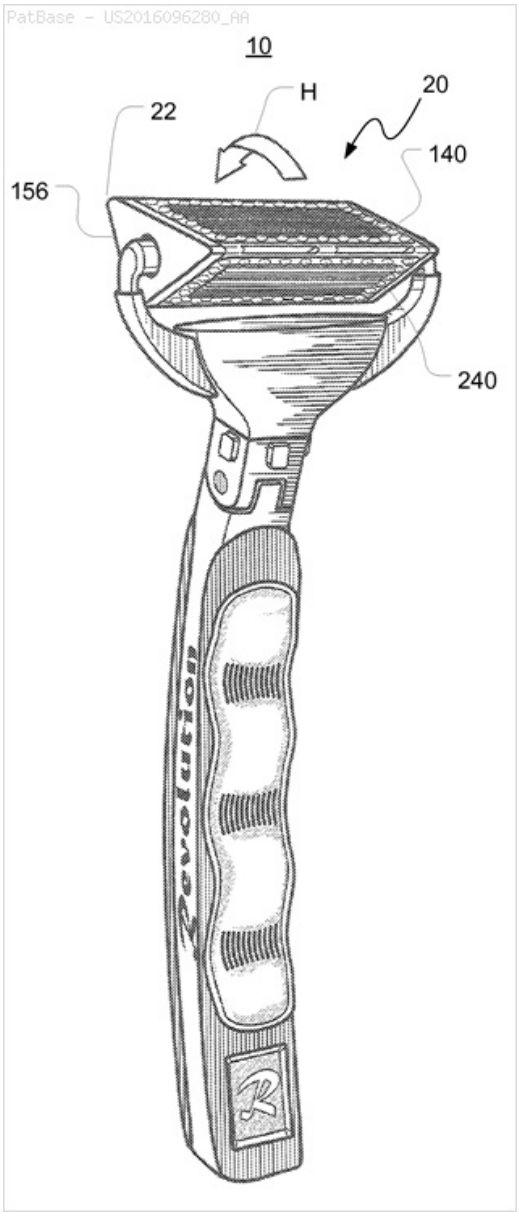
Classifications:

International (IPC 8-9): B26B21/00 B26B21/08 B26B21/10 B26B21/14 B26B21/16 B26B21/18 B26B21/22 B26B21/24 B26B21/28 B26B21/40 B26B21/44 B26B21/52 (Advanced/Invention); B26B21/16 B26B21/20 B26B21/22 B26B21/28 B26B21/40 B26B21/44 (Advanced/Non-invention)

International (IPC 1-7): B26B21/08 B26B21/14 B26B21/22 B26B21/52

CPC: B26B21/222 B26B21/44 B26B21/165 B26B21/40 B26B21/521 B26B21/10 B26B21/16 B26B21/20 B26B21/22 B26B21/225 B26B21/24 B26B21/28 B26B21/4018 B26B21/4062 B26B21/443 B26B21/52 B26B21/523 B26B21/4012

US: 1/1 30/47 30/51 30/53 30/74



Family:

Publication number	Publication date	Application number	Application date
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WO18035404 A1	20180222	WO2017US47496	20170818
WO19067574 A1	20190404	WO2018US52898	20180926

Priority:

US20140060700P 20141007 US20150627282 20150220 US20150201551P 20150805
US20150873857 20151002 US20150977560 20151221 US20160135485 20160421
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US20170716504 20170926 US20170580957P 20171102 US20180663032P 20180426
US20180175033 20181030

Probable Assignee: RUAIRIDH ROBERTSON

Assignee(s): (std): BONNOITT JR GEORGE K ; CARPENTER DAVID ; ROBERTSON RUAIRIDH ; RUAIRIDH ROBERTSON ; STRATTON ALAN KENNETH ; ROBERTSON RUARDH

Assignee(s): BONNOITT GEORGE K JR

Inventor(s): (std): BONNOITT JR ; GEORGE K BONNOITT JR ; ALAN KENNETH STRATTON ; DAVID CARPENTER ; RUAIRIDH ROBERTSON ; BONNOITT GEORGE K JR ; ROBERTSON RUAIRIDH ; BONNOITT GEORGE K ; STRATTON ALAN KENNETH ; CARPENTER DAVID ; BONNOITT JR GEORGE K ; CARPENTER DAVD ; BONNOTT JR GEORGE K ; ROBERTSON RUARDH

Inventor(s): STRSTTON ALAN KENNETH

Agent(s): GOWLING WLG CANADA LLP; DUMMETT COPP LLP; INABA YOSHIYUKI; GROSSMAN TUCKER PERREAULT AND PFLEGER PLLC; GROSSMAN TUCKER PERREAULT AND PFELGER PLLC; KROON JR PAUL J ET AL; KROON PAUL J JR ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

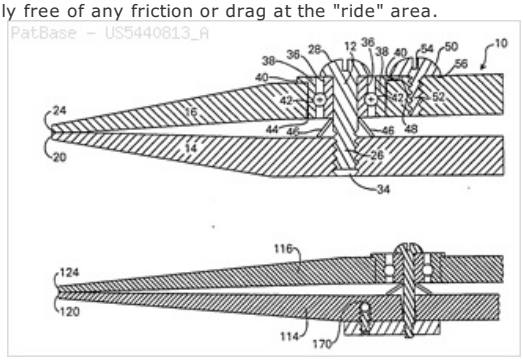
241) Family number: 13339691 (US5440813A)

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Title: RIDELESS SCISSORS WITH AN ADJUSTABLE LOAD TRANSVERSE TO THE PIVOT AXIS ON A PIVOT JOINT

Abstract: An improved scissors includes a pivot joint having a pivot axis, a first blade member having a first cutting edge and a longitudinal axis, and a second blade member having a second cutting edge. The second blade member is pivotally coupled by the pivot joint to the first blade member with the first cutting edge adjacent and in contact with the second cutting edge. Moreover, the pivot joint is coupled to the first blade member to incline the first blade member relative to the second blade member and the pivot joint, so that the inclination of the first blade member produces a load transverse to the pivot axis of the pivot joint, which corresponds to the direction along the longitudinal axis of the first blade member to produce and determine the tension and friction along the cutting edges. The load transverse to the pivot axis may be oblique to the pivot axis of the pivot joint and may also be inclined between 0.1 to 10.0 degrees from an axis perpendicular to the pivot axis and along the longitudinal axis of the first blade member. Further, the first blade member may also include a first ride area, and the second blade member may also include a second ride area, so that the first ride area is spaced from and free of contact with the second ride area. Therefore, the scissors may be substantially free of any friction or drag at the "ride" area.

Classifications:
International (IPC 8-9): B26B13/28 (Advanced/Invention); B26B13/28 (Advanced/Non-invention); B26B13/00 (Core/Invention)
International (IPC 1-7): B25B13/28 B26B13/28
CPC: Y10T29/4984 B26B13/285
European: B26B13/28B
US: 29/434 30/254 30/266 30/267 30/341 76/106.5



Family:

Publication number	Publication date	Application number	Application date
AU199470514 A1	19950103	AU19940070514	19940603
CA2163360 AA	19951120	CA19942163360	19940603
DE69414707 D1	19981224	DE19946014707	19940603
DE69414707 T2	19991209	DE19946014707T	19940603
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EP0701501 B1	19981118	EP19940919334	19940603
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US5694694 A	19971209	US19940286301	19940805
WO9429087 A1	19941222	WO1994US06222	19940603

Priority:

US19930071781 19930604 WO1994US06222 19940603 US19940286301 19940805
US19950467029 19950606

Probable Assignee: MAKSOR L L C A LIABILI LTD

Assignee(s): (std): CONAIR ; ROSKAM SCOTT H ; MAKSOR L L C A LIABILI LTD

Assignee(s): MAKSOR LLC ; MAKSOR LLC A LIABILITY CO LTD ; MAKSOR L L C A LIABILITY CO LTD ; MASKOR LLC CORP ; CONAIR CORP ; CONAIR CORP EAST WINDSOR ; CONAIR CORP EAST WINDSOR N J US ; MAKSOR L L C ; ROSKAM SCOTT H BIGFORK MONT US

Inventor(s): (std): ROSKAM SCOTT H ; ROSKAM SCOTT

Inventor(s): SCOTT H ROSKAM ; ROSKAM SCOTT H BIGFORK MT 59911 US

Agent(s): OYEN WIGGS GREEN AND MUTALA

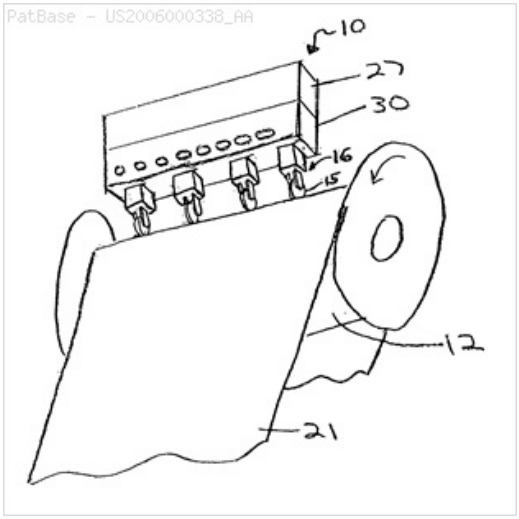
Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN

242) Family number: 32532708 (US2006000338A)

Title: ROLLER AND METHODS OF USE

Abstract: A process for skiving a substrate is described, wherein the substrate is skived with a roller or a device or apparatus including the roller. The roller provides a cleaner skive than previously known methods without damage to underlying materials.

Classifications:
International (IPC 8-9): B23P19/02 B26D3/08 G03G15/14 (Advanced/Invention);
B23P19/02 B26D3/08 G03G15/14 (Core/Invention)
CPC: B26D3/085 B26D7/08 G03G2221/0005 Y10T29/49821 Y10T83/0333
European: B26D3/08B B26D7/08 S03G221/00B
US: 29/426.4 399/398 83/879 83/879P



Family:

Publication number	Publication date	Application number	Application date
US2006000338 AA	20060105	US20040851913	20040521
US7685692 BB	20100330	US20040851913	20040521

Priority:

US20040851913 20040521

Probable Assignee: EASTMAN KODAK CO

Assignee(s): (std)**:** EASTMAN KODAK CO ; IND TECH RES INST

Assignee(s): INDUSTRIAL TECHNOLOGY RESEARCH INST ; INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE ; EASTMAN KODAK COMPANY

Inventor(s): (std)**:** COLEMAN RUSTY J ; MACAULEY JOHN P ; RANKIN CHARLES M JR ; RICKS THEODORE K ; WEINER MEGAN L ; RANKIN JR CHARLES M

Inventor(s): COLEMAN RUSTY ; WEINER MEGAN ; RANKIN CHARLES MJR ; RICKS THEODORE ; RANKIN CHARLES ; RANKIN CHARLES M ; MACAULEY JOHN

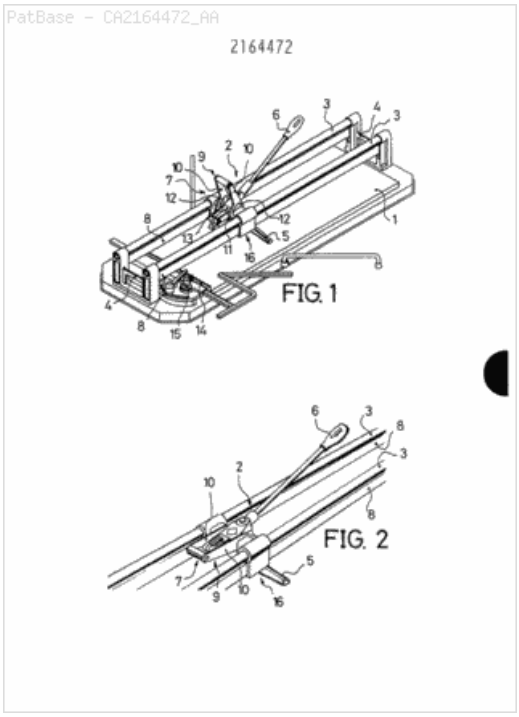
Agent(s): PAUL A LEIPOLD PATENT LEGAL STAFF; ALSTON AND BIRD LLP

243) Family number: 9535716 (CA2164472A)

Title: MACHINE FOR THE CUTTING AND SEPARATION OF PIECES, ESPECIALLY CERAMIC PIECES

Abstract: It comprises a piece-support surface (1), a cutting carriage (2) which slides along some guides (3) attached to supports (4) and is provided with a cutting tool, and a separating device (16) operated by a manual lever (6), which scores a line on the piece as the cutting tool comes into contact with the piece and the carriage (2) moves along the guides (3), separating the pieces along the line previously scored when the manual lever (6) of the separating device (9) is moved. It is characterized in that the separating device (16) is mounted on the cutting carriage (2) and is operated by the same lever (6) which operates the cutting tool, the cutting carriage (2) comprising positioning means (7) of the separating device (16). A more compact machine assembly is achieved, and the cutting operation can be carried out using only one hand.

Classifications:
International (IPC 8-9): B26B27/00 B28D1/22 (Advanced/Invention);
B26B27/00 B28D1/22 (Core/Invention)
International (IPC 1-7): B26B27/00
CPC: B28D1/225
European: B28D1/22D



Family:

Publication number	Publication date	Application number	Application date
CA2164472 AA	19970606	CA19952164472	19951205

Priority:

CA19952164472 19951205

Probable Assignee: BOADA GERMANS SA

Assignee(s): (std)**:** BOADA GERMANS SA

Assignee(s): GERMANS BOADA S A ; GERMANS BOADA SA ; TORRENTS JOSEP

Inventor(s): (std)**:** TORRENTS JOSEP

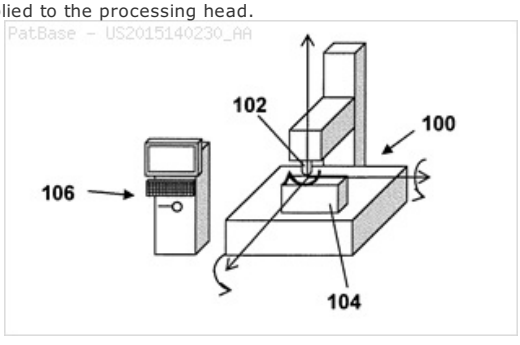
Agent(s): ROBIC

244) Family number: 51968717 (US2015140230A)

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Title: MACHINE TOOL

Abstract: A machine tool arranged to deliver an energy source through a processing head onto a work-piece, wherein; the machine-tool has a clamping mechanism arranged to temporarily receive the processing-head, or another machining or processing-head, to process a work-piece; the processing-head comprising one or more guiding mechanisms arranged to direct the energy source onto a work-piece and a processing-head docking-manifold arranged to have connected thereto one or more media to be, in use, supplied to the processing-head to facilitate processing of the work-piece; wherein the processing-head docking-manifold allows the one or more media to be supplied to the processing-head when the processing-head is connected to the clamping mechanism; and wherein the machine-tool also comprises at least one mechanism arranged to move a supply docking-manifold into and/or out of connection with the processing-head docking-manifold such that when the two manifolds are connected the or each media is supplied to the processing head.



Classifications:

International (IPC 8-9): B05B12/00 B05B13/02 B05C19/00 B05C19/06 B05C5/00 B05D1/02 B05D3/00 B23K10/02 B23K15/00 B23K15/08 B23K26/00 B23K26/06 B23K26/08 B23K26/14 B23K26/34 B23K26/342 B23K26/36 B23K37/00 B23K9/04 B23K9/32 B23P B23P15/02 B23P23/00 B23P23/04 B23Q11/00 B23Q3/155 B23Q39/00 B25J15/04 B29C67/00 B29C73/24 B33Y10/00 B33Y30/00 B33Y80/00 (Advanced/Invention);
B22F3/105 B23K9/32 B33Y30/00 B41J2/175 (Advanced/Non-invention); B23P (Subclass/Invention)

CPC: B05B12/00 B05B13/02 B05D1/02 B23K26/0626 B23K15/0086 B23K15/08 B23K26/36 B23K10/027 B05D3/002 B05C5/001 B05C19/06 B22F3/1055 B23K26/0876 B23K26/0884 B23K26/34 B23K26/702 B41J2/175 B23K26/082 B23K26/342 B05B7/228 B23K9/04 B23K15/0026 B23K26/0093 B23P15/02 B29C73/24 B33Y10/00 B33Y80/00 B29L2031/082 B23K9/323 B33Y30/00 B05B15/65 B29C64/20 B23K2101/001 B23P23/04 B23K26/1482

US: 118/35 118/620 118/641 118/697 219/121.33 219/121.36 219/121.61 219/121.8 219/121.84 219/76.14 425/174.4 427/457 427/532

Family:

Publication number	Publication date	Application number	Application date
AU2013291750 AA	20140123	AU20130291750	20130716
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CA2877982 AA	20141229	CA20132877982	20130716
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Priority:

GB20120012629 20120716 GB20130007796 20130430 CN201380038211 20130716
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US20170451130 20170306

Probable Assignee: HYBRID MFG TECHNOLOGIES LTD

Assignee(s): (std): EX SCINTILLA LIMTED ; EX SCINTILLA LTD ; EXSCINTILLA LTD ; HYBRID MFG TECH LTD ; PREC ENGINEERING TECHNOLOGIES LTD

Assignee(s): JONES JASON B ; HYBRID MFG TECHNOLOGIES LTD ; COATES PETER ; PRECISION ENGINEERING TECHNOLOGIES LTD

Inventor(s): (std): COATES PETER ; JONES JASON B ; PETER COATES ; JASON B JONES

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MCCARTHY TETRAULT LLP; NAKANO ROBERT H; GARDINER ROBERTS LLP; GOSNALL TOBY; DREW AND NAPIER LLC; PATENT CAPITAL GROUP; BARKER BRETTELL LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

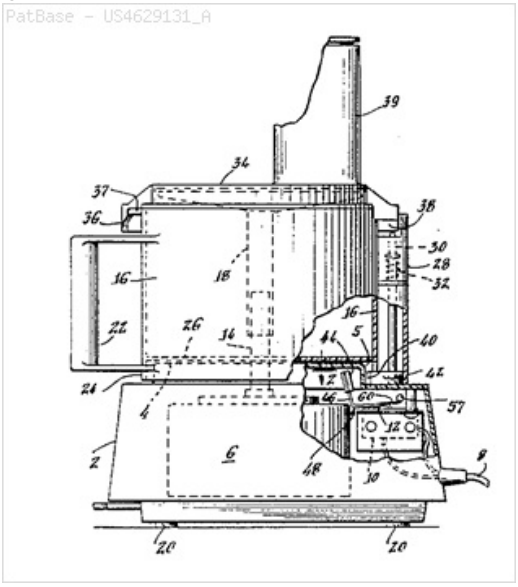
245) Family number: 1443728 (US4629131A)

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Title: Magnetic safety interlock for a food processor utilizing vertically oriented, quadrant coded magnets

Abstract: An improved safety interlock for a food processor of the type including a control system for preventing actuation of a powerful motor drive, so that the food processing tool does not rotate, unless two conditions have been met; namely, (1) a bowl is mounted in its operating position on the base housing, and (2) a cover is held securely in its operating position on the bowl. The improved safety interlock provided in one embodiment of the invention uses two permanent magnets. One magnet is associated with actuator means and the other magnet is associated with switch means which prevent operation of the motor unless actuated. These two magnets are oriented generally in vertical planes relative to the horizontal top deck of the base housing. Each magnet is divided or coded into respective polarity quadrants, said quadrants of each of these magnets being non-symmetrical with respect to mutually perpendicular axes. The two magnets are arranged so that the control for the motor drive of the food processor can only be magnetically actuated when both the bowl and the cover are mounted securely in their respective predetermined operating positions.

Classifications:
International (IPC 8-9): A47J43/04 A47J43/046 A47J43/07 B26D7/24 F16P3/00 F16P3/10 H01H36/00 H01H9/20 H01H9/22 (Advanced/Invention);
A47J43/04 H01H36/00 (Advanced/Non-invention);
A47J43/04 B26D7/00 F16P3/00 (Core/Invention);
H01H36/00 (Core/Non-invention)
International (IPC 1-7): A47J43/04 A47J43/046 A47J43/07 A47J43/08 A47J44/00 B02C18/16 F16P3/00 H01H1/54 H01H3/16 H01H9/20 H01H9/22
CPC: A47J43/046 A47J43/0777 B26D7/24 F16P3/10 H01H36/0073
European: A47J43/046 A47J43/056C4B A47J43/07S4C2 B26D7/24 F16P3/10 T01H36/00C
US: 241/199.12 241/282.1 241/36 241/37.5 241/92



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19810237876 19810225 CA19820396881 19820223

Probable Assignee: CUISINARTS CORP

Assignee(s): (std): CUISINARTS INC ; KUROJINAATSU INC

Assignee(s): PODELL ALLEN F ; FIRST NATIONAL BANK OF BOSTON ; CAIR ACQUISITION INC ; CAIR ACQUISITION INC A CORP OF DE ; CUISINARTS ACQUISITION INC ; CUISINARTS ACQUISITION INC A DE CORP ; CUISINARTS CORP

Inventor(s): (std): AREN EFU PODERU ; PODELL ALLEN F

Inventor(s): ALLEN F PODELL ; F PODELL ALLEN

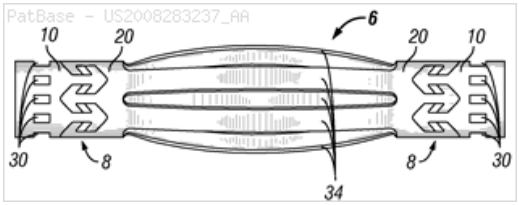
Agent(s): WESTELL AND HANLEY

246) Family number: 42522732 (US2008283237A)

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Title: LOW CLEARANCE CENTRALIZER AND METHOD OF MAKING CENTRALIZER

Abstract: A bow-spring centralizer includes a center assembly having a plurality of bow springs and a pair of generally tubular moving collars secured one to each end of each bow spring, the center assembly formed intermediate a pair of generally tubular stop collars. Each moving collar/stop collar combination forms an interlocking and axially extendable collar. The centralizer is formed from a single tube. The tube is cut using a laser according to a cut pattern that creates interlocked stop collar/moving collar combinations that are rotatably locked but axially movable one relative to the other. Each of the interlocked stop collars and moving collars includes a plurality of circumferentially spaced heads, each head integrally formed on one of a plurality of circumferentially spaced extensions protruding from the stop collar or moving collar. The heads may have a variety of projected shapes, such as a rectangular, arrow or a teardrop shaped. Each head is axially slidably captured within one of a plurality of chambers on the other tubular member (stop collar or moving collar) to which the first member is coupled. The extensions of each interlocked tubular member define the outer walls of the chamber in which a head of the opposing tubular member is slidably captured.



Classifications:

International (IPC 8-9): B21D11/06 B21D28/00 B21D31/04 B21D39/04 B21D5/01 B21D5/10 B21D5/12 B23K5/02 B23P11/00 B23P13/04 B23P15/16 B25B27/10 B29C45/14 B29C45/16 B29C70/02 B29C70/06 B29C70/68 B32B37/12 B32B37/16 E21B10/08 E21B17/00 E21B17/01 E21B17/02 E21B17/04 E21B17/10 E21B17/16 E21B17/20 E21B19/00 E21B19/16 E21B19/24 E21B23/00 E21B23/01 E21B37/02 E21B41/00 E21B43/10 F16D1/08 F16L25/00 F16L55/00 (Advanced/Invention);
B29K105/08 B29K509/02 B29K509/04 B29L23/00 B29L9/00 (Advanced/Non-invention);
B21D31/00 B23P15/16 E21B17/00 E21B19/00 E21B23/00 E21B43/02 (Core/Invention)

CPC: E21B17/10 E21B43/103 E21B19/24 B23P11/00 E21B17/1064 E21B19/00 Y10T29/49609 Y10T29/49906 Y10T29/49995 Y10T29/496 E21B17/1014 F16L55/00 Y10T29/49947 B21D11/06 E21B17/20 B29C70/023 B29C70/68 B29C45/14786 B29C45/1671 B32B37/16 B32B37/1284 B32B2305/08 B32B2597/00 B29L2009/00 B29C70/06 B29K2105/0854 B29K2509/02 B29K2509/04 B29L2023/22 E21B19/16 B21C37/08 B21C37/122 E21B17/1042 E21B17/1085 Y10T24/1457 Y10T29/53987 Y10T403/69 Y10T156/10 B25B27/10 E21B17/00 E21B17/006 F16D1/0858 Y10T403/54 B21D5/015 B21D5/10 B21D5/12 B21D35/001 B21D51/16 E21B10/08 E21B17/04 Y10T29/49817 Y10T29/49863 E21B17/1028 Y10T29/49826 Y10T156/1038 E21B17/16 E21B17/1078

European: B25B27/10 E21B17/00 E21B17/00M E21B17/10C2B E21B17/10R3 E21B17/10W E21B43/10F F16D1/08K2

US: 1/1 156/218 156/60 156/83 166/196 166/213 166/241.1 166/241.3 166/241.6 166/241.600P 166/241.600S 166/241.7 166/243 166/244.1 166/376 166/378 166/380 166/381 166/382 175/325.1 175/325.5 175/325.500S 175/325.6 175/57 228/173.4 24/20R 264/257 264/258 264/261 29/282 29/282S 29/426.2 29/428 29/446 29/469.5 29/469.500S 29/525.01 29/557 29/896.6 29/896.600S 29/896.9 403/291 403/344 403/344S 72/341

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Priority:

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Probable Assignee: INNOVEX DOWNHOLE SOLUTIONS INC

Assignee(s): (std): ADVANCED COMPOSITE IND AG ; ANTELOPE OIL TOOL AND MFG CO ; ANTELOPE OIL TOOL AND MFG CO LLC ; ANTELOPE OIL TOOLS AND MFG CO LLC ; ANTELOPE TOOLS AND MFG CO LLC ; ANTELOPE TOOLS AND MFG CO ; ANTELOPE OIL TOOLS SWITZERLAND AG ; FRANK S INT INC ; FRANK S INR INC ; BUYTAERT JEAN ; MILLER EUGENE EDWARD ; MCDOWELL DONALD ELWIN ; HINING IRA EUGENE ; HINING IRA ; MILLER EUGENE ; BUYTAERT JEAN P ; FRANK S INTERNAT INC ; INNOVEX DOWNHOLE SOLUTIONS INC ; YOUNG JIMMY MACK ; RSD2 HOLDING AG

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; PNC BANK NATIONAL ASSOCIATION AGENT AS ; RICOH CO LTD ; LEVIE DAVID E Y ; BAYNHAM RICHARD RONALD ; KUBIAK JEFFREY ; PLUCHECK CLAYTON ; FRANK'S INT ; FRANK'S INT INC ; FRANK S INTERNATIONAL INC ; ANTELOPE OIL TOOLS AND MFG ; ANTELOPE OIL TOOLS AND MFG CO ; ANTELOPE TOOLS AND MFG ; ANTELOPE OIL TOOL AND MFG CO LLC MINERAL WELLS ; ANTELOPE OIL TOOL AND MFG CO AND GT LLC

Inventor(s): (std): YOUNG JIMMY MACK ; BUYTAERT JEAN ; MILLER EUGENE EDWARD ; HINING IRA EUGENE ; HINING IRA ; MILLER EUGENE ; BUYTAERT JEAN P ; EDWARD MILLER EUGENE ; JEAN BUYTAERT ; EUGENE HINING IRA ; YOUNG JIMMY ; MCDANIEL TROY ; BETIK MICHAEL LYNN ; PLUCHECK CLAYTON ; LIRETTE BRENT JAMES ; MCDOWELL DONALD ; MCDOWELL DONALD ELWIN ; LEVIE DAVID E Y ; KUBIAK JEFFREY ; BAYNHAM RICHARD RONALD ; BAYNHAM RICHARD ; LEVIE DAVID

Inventor(s): RICHARD BAYNHAM ; LEVIE DAVID EY ; DAVID LEVIE ; EUGENE EDWARD MILLER ; DONALD ELWIN MCDOWELL ; JIMMY MACK YOUNG ; IRA HINING ; EUGENE MILLER ; JEAN P BUYTAERT ; MCDOWELL DONALD ELWIN MILLSAP ; MILLER EUGENE EDWARD WEATHERFORD ; BUYTAERT JEAN MINERAL WELLS ; YOUNG JIMMY MACK WEATHERFORD ; KUBIAK JEFFREY HOUSTON ; PLUCHECK CLAYTON TOMBALL ; DAVID EY LEVIE

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; HASELTINE LAKE LLP; MEACOCK ANDREW; DOWLING ANDREW; GILES ASHLEY SIMON; STREETS AND STEELE; STREETS AND STEELE FRANKS INT; WINSTEAD PC FCC FKI HENRY L EHRLICH; PATRICK K; EDMONDS AND NOLTE PC; MH2 TECHNOLOGY LAW GROUP LLP; STEELE PATRICK K; EHRLICH HENRY L; EDE E ET AL; ATKINSON GARRETT J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

247) Family number: 56438738 (US2014135793A)

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Title: SYSTEMS AND METHODS FOR A DUAL CONTROL SURGICAL INSTRUMENT

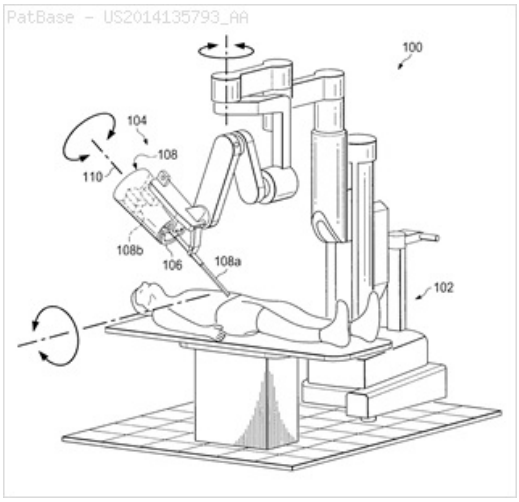
Abstract: A method comprises receiving a surgical instrument into engagement with a grip actuator of a teleoperational activation system. The surgical instrument includes movable jaws, and the surgical instrument is received in a prearranged gripping configuration with the jaws gripping a surgical accessory. The method includes generating a first control signal for manipulating the surgical instrument while maintaining the surgical instrument in the prearranged gripping configuration. The method further includes generating a second control signal for manipulating the surgical instrument to move from the prearranged gripping configuration to a second configuration.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/29 A61B19/00 A61B34/10 A61B34/30 A61B34/35 B25J13/00 B25J15/00 (Advanced/Invention);
A61B17/00 A61B17/29 (Advanced/Non-invention)

CPC: Y10S901/31 A61B17/29 B25J13/00 B25J15/00 A61B2017/2926 A61B34/35 A61B2017/00314 A61B2017/00398 A61B2017/00407 A61B2017/00725 A61B2017/2902 A61B2017/292 A61B2017/2946 A61B34/10 A61B34/30

US: 606/130 901/31



Family:

Publication number	Publication date	Application number	Application date
CN104736074 A	20150624	CN201380054356	20131113
CN104736074 B	20180525	CN201380054356	20131113
CN108523996 A	20180914	CN201810379307	20131113
EP2919674 A1	20150923	EP20130854350	20131113
EP2919674 A4	20160720	EP20130854350	20131113
KR20150084837 A	20150722	KR20157012253	20131113
US2014135793 AA	20140515	US20130079142	20131113
US2018064493 AA	20180308	US20170806920	20171108
US9820816 BB	20171121	US20130079142	20131113
WO14078388 A1	20140522	WO2013US69856	20131113

Priority:

US20120726415P 20121114 CN201380054356 20131113 US20130079142 20131113
WO2013US69856 20131113 US20170806920 20171108

Probable Assignee: INTUITIVE SURGICAL OPERATIONS INC

Assignee(s): (std): INTUITIVE SURGICAL INC ; INTUITIVE SURGICAL OPERATIONS

Assignee(s): INTUITIVE SURGICAL OPERATIONS INC

Inventor(s): (std): LILAGAN PAUL E ; LARKIN DAVID QUENTIN ; COOPER THOMAS GROSVENOR ; LARKIN DAVID Q ; COOPER THOMAS G

Agent(s): MACDOUGALL ALAN JOHN SHAW; NICKOLS JULIE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

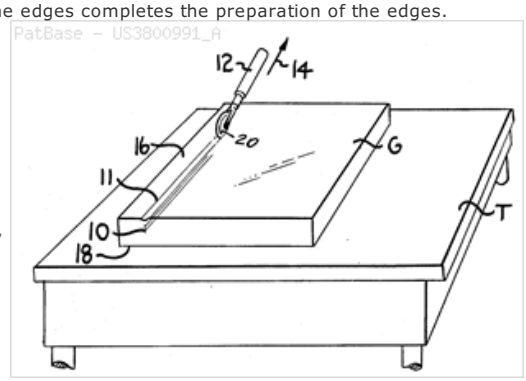
248) Family number: 4884741 (US3800991A)

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Title: METHOD OF AND AN APPARATUS FOR CUTTING GLASS

Abstract: Pieces of flat glass are cut to desired size without the necessity of grinding to size and polishing. Trims are removed from the piece in accordance with a procedure involving the creation of a subsurface discontinuity along an intended path of cut, followed by the application of surface heat along the discontinuity to increase tensile stresses within the piece along the intended path of cut. A bending moment is applied about the intended path of cut to propagate a fracture in the piece of glass. Light seaming of the top and bottom portions of the edges completes the preparation of the edges.

Classifications:
International (IPC 8-9): B26D3/00 B26D3/08 B26D5/00 B26F3/00 B28D1/18 B28D1/22 B28D1/28 C03B33/00 C03B33/02 C03B33/027 C03B33/033 C03B33/04 C03B33/09 C03B33/10 (Advanced/Invention); C03B33/02 (Advanced/Non-invention);
B26D3/00 B26D5/00 B26F3/00 B28D1/18 B28D1/22 B28D1/26 C03B33/00 (Core/Invention);
C03B (Subclass/Invention)
International (IPC 1-7): B24B9/08 B26D3/00 B26D7/10 B26F3/00 B28D1/18 B28D1/22 B28D1/28 C03B33/00 C03B33/02 C03B33/06
CPC: Y10T428/15 Y10T225/12 Y10T225/304 Y10T225/325 Y02P40/57 C03B33/033 C03B33/091 C03B33/107
European: C03B33/033 C03B33/09B C03B33/10B C03B33/10C2
US: 161/1 219/121.69 219/121.72 219/121.82 219/121.85 225/0.2 225/2 225/93.5 225/96.5 428/43 65/105 65/113 65/176



Family:

Publication number	Publication date	Application number	Application date
AU197354165 A1	19741010	AU19730054165	19730405
AU197471113 A1	19760115	AU19740071113	19740711
AU207354165 A1	19741010	AU19730054165	19730405
BE797819 A	19731005	BE19730129684	19730405
BE822344 A	19750520	BE19740150635	19741119

CA1002444 A1	19761228	CA19730168021	19730405
CA1023257 A1	19771227	CA19740204078	19740704
CA1035578 A1	19780801	CA19750240964	19751203
CA1035578 A2	19780801	CA19750240964	19751203
CA1054923 A1	19790522	CA19770292694	19771208
CA1054923 A2	19790522	CA19770292694	19771208
DE2317027 A1	19731031	DE19732317027	19730405
DE2451004 A1	19750522	DE19742451004	19741026
DE2451004 B2	19780629	DE19742451004	19741026
FR2179817 A1	19731123	FR19730012375	19730405
FR2179817 B1	19791019	FR19730012375	19730405
FR2251530 A2	19750613	FR19740038019	19741119
FR2251530 B2	19800328	FR19740038019	19741119
GB1431818 A	19760414	GB19730016229	19730405
GB1493126 A	19771123	GB19740049951	19741119
IT1016785 A	19770620	IT19740069484	19740805
IT980876 A	19741010	IT19730067985	19730405
JP1163778 C3	19830826	JP19740098306	19740827
JP49010208 A2	19740129	JP19730040806	19730410
JP50084617 A2	19750708	JP19740098306	19740827
JP54000922 B4	19790118	JP19730040806	19730410
JP55172335 U1	19801210	JP19800076598U	19800602
JP57055662 B4	19821125	JP19740098306	19740827
NL152523 B	19770315	NL19730004767	19730405
NL7304767 A	19731012	NL19730004767	19730405
NL7411316 A	19750522	NL19740011316	19740826
US3800991 A	19740402		19720410
US3865293 A	19750211	US19720242511	19720410
US3865294 A	19750211	US19730422393	19731206
US3865673 A	19750211	US19730417649	19731120

Priority:

US19720242510 19720410 US19720242511 19720410 US19720242549 19720410
AU19730054165 19730405 CA19730168021 19730405 US19730417649 19731120
US19730422393 19731206 CA19750240964 19751203

Probable Assignee: PPG IND INC

Assignee(s): (std)**:** MOLINS LTD ; PPG IND INC ; PPG INDUSTRIES INC

Assignee(s): PPG INDUSTRIES US ; PPG INDUSTRIES INC PITTSBURGH PENNSYLVANIA VER ST ; PPG INDUSTRIES INC PITTSBURGH PA V ST A ; PPG INDUSTRIES INC ONE GATEWAY CENTER PITTSBURGH PENNSYLVANIE E U A ; PPG INDUSTRIES INC PITTSBURGH PENNSYLVANIA VER ST V AM ; DAHLBERG JOHN R ; DETORRE ROBERT P ; ERNSBERGER FRED M ; GROVE ROBERT H ; HOLLABAUGH CHARLES M ; PPG IND INC US ; MOLINS LIMITED ; PPG IND INC PITTSBURGH PA V ST A ; PPG INDUSTRIES ; P P G INDUSTRIES INC TE PITTSBURGH PENNSYLVANIE VER ST V AM ; PPG IND ; PPG IND US ; P P G IND INC TE PITTSBURGH PENNSYLVANIE VER ST V AM

Inventor(s): (std)**:** DETORRE ROBERT P ; DE TORRE R ; DAHLBERG J ; GROVE R ; TORRE ROBERT PAUL DE ; HOLLABAUGH CHARLES MILTON ; HOLLABAUGH CHARLES M ; HOLLABAUGH C M ; GROVE ROBERT HARVEY ; GROVE ROBERT H ; GROVE R H ; ERNSBERGER FRED MARTIN ; ERNSBERGER FRED M ; ERNSBERGER F M ; DETORRE ROBERT PAUL ; DETORRE R P ; DAHLBERG J R ; DAHLBERG JOHN ROBERT ; DAHLBERG JOHN R

Inventor(s): DAHLBERG J US ; CHARLES MILTON HOLLABAUGH ; TORRE ROBERT PAUL DE PITTSBURGH PA V ST A ; R P DETORRE ; R H GROVE ; J R DAHLBERG ; HOLLABAUGH CHARLES MILTON ALLISON PARK ; GROVE ROBERT HARVEY SARVER ; F M ERNSBERGER ; DE TORRE ROBERT PAUL ; DAHLBERG JOHN ROBERT JEANNETTE ; C M HOLLABAUGH ; DE TORRE R US ; GROVE R US ; ROBERT PAUL DE TORRE FRED MARTIN ERNSBERGER CHARLES MILTON HOLLABAUGH ROBERT HARVEY GROVE AND JOHN ROBERT DAHLBERG ; FM ERNSBERGER ; CM HOLLABAUGH ; TORRE ROBERT PAUL DE PITTSBURGH PA VSTA ; FRED MARTIN ERNSBERGER ; JOHN ROBERT DAHLBERG ; JR DAHLBERG ; RH GROVE ; ROBERT HARVEY GROVE ; ROBERT PAUL DE TORRE ; RP DETORRE

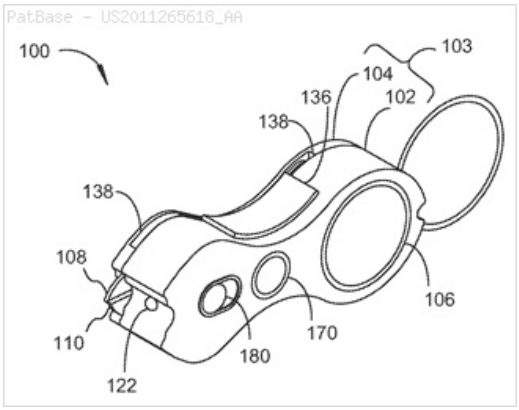
249) Family number: 49883742 (US2011265618A)

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Title: CUTTING TOOL WITH RETRACTABLE BLADES

Abstract: A cutting tool includes a blade assembly with two retractable, opposing blades in a handle shaped for comfortable gripping. The blades may be closed and stowed by being partially retracted into the handle with a continuous motion of a single hand. The blades may similarly be extended and deployed for use with a continuous motion of a single hand. Each blade is formed with a shearing edge and a lever arm. Each lever arm is formed with a slot for engaging a blade locking tab joined to a cover for the handle. When the blade assembly is retracted into the handle, the shearing edges of the blades remain safely closed when the lever arms are released by a person using the tool. The cutting tool includes a retractable tether for preventing loss or damage to the tool should it be dropped.

Classifications:
International (IPC 8-9): B26B11/00 B26B13/00 B26B13/12 B26B13/16 B26B13/26 B26B3/06 B26D1/00 (Advanced/Invention)
CPC: B26B13/005 B26B11/003 B26B13/12 B26B13/16 B26B13/26
European: B26B13/00B B26B13/12 B26B13/16 B26B13/26
US: 1/1 30/123 30/123S 30/152 30/152S 83/13 83/13P



Family:

Publication number	Publication date	Application number	Application date
US2011265618 AA	20111103	US20110097992	20110429
US9289905 BB	20160322	US20110097992	20110429

Priority:

US20100330230P 20100430 US20110097992 20110429

Probable Assignee: WEST COAST CHAIN MFG CO

Assignee(s): (std): CORNELL DANIEL ; MALVINI PHILLIP JOSEPH ; STEEYK OLEH ; WEST COAST CHAIN MFG CO

Assignee(s): BOOMERANG TOOL CO

Inventor(s): (std): CORNELL DANIEL ; MALVINI PHILLIP JOSEPH ; STEEYK OLEH

Agent(s): GSS LAW GROUP

250) Family number: 1383742 (US4016634A)

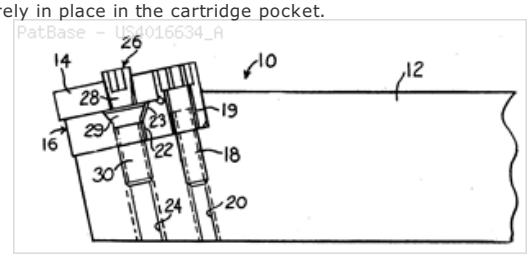
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Title: INDEXABLE INSERT TYPE CUTTING TOOLHOLDERS

Abstract: Improvement in indexable insert type cutting toolholder having a steel shank and a pocket in the shank for carrying an indexable insert therein, the insert having a central aperture therein by which it is held in place in the toolholder, the improvement comprising a cartridge fitted in the pocket in the shank, an arrangement for fastening the cartridge securely in place in the shank pocket, the cartridge formed of a high speed steel harder than that of the shank but less that that of the insert, the cartridge retaining its hardness even when heated to cherry red heat, the cartridge having a pocket therein for holding the insert, and an arrangement for fastening the insert securely in place in the cartridge pocket.

Classifications:

International (IPC 8-9): B23B27/16 B26D1/00 (Advanced/Invention); B23B27/16 B26D1/00 (Core/Invention)
International (IPC 1-7): B26D1/00
CPC: Y10T407/2276 Y10T407/23 B23B27/1662 B23B2205/04 B23B2205/16
European: B23B27/16P L23B205/04 L23B205/16
US: 29/96 407/104 407/113



Family:

Publication number	Publication date	Application number	Application date
CA1033559 A1	19780627	CA19770269887	19770117
US4016634 A	19770412	US19760678111	19760419

Priority:

US19760678111 19760419

Probable Assignee: EMPIRE TOOL

Assignee(s): (std): EMPIRE TOOL

Assignee(s): EMPIRE TOOL CO ; EMPIRE TOOL COMPANY ; BARNES WILLIAM E

Inventor(s): (std): BARNES WILLIAM E

251) Family number: 52218744 (US2012277901A)

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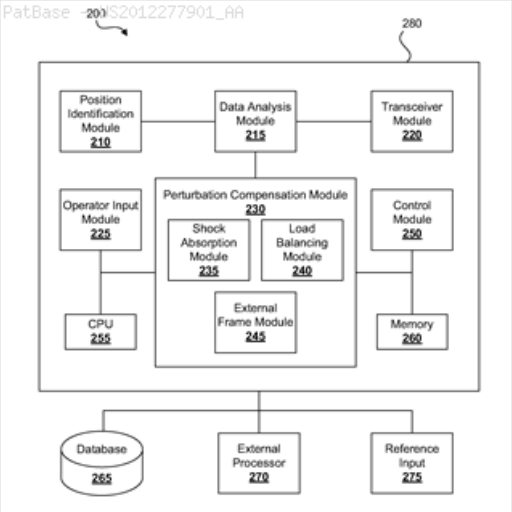
Title: PLATFORM PERTURBATION COMPENSATION

Abstract: A method for compensating for a perturbation external to a platform having a plurality of mechanical arms in accordance with an embodiment of the technology includes detecting a normal positional and/or orientational measurement of the platform using a sensor. A perturbed positional and/or orientational measurement of the platform can also be detected using the sensor. The normal positional and/or orientational measurement and the perturbed positional and/or orientational measurement can be compared to determine a positional and/or orientational difference. A position and/or orientation of a mechanical arm can be adjusted to compensate for the perturbation based on the positional and/or orientational difference.

Classifications:

International (IPC 8-9): B25B11/00 B25J1/00 B25J11/00 B25J13/02 B25J13/06 B25J13/08 B25J15/06 B25J3/00 B25J3/04 B25J5/00 B25J9/00 B25J9/16 B66C1/04 B66C1/42 B66C1/68 B66C13/44 B66C23/00 B66F19/00 B66F9/18 G05B19/04 G06F19/00 G06F7/00 H01F7/04 (Advanced/Invention)

CPC: B25J1/00 B25J13/02 B25J5/007 B66C1/04 B66C1/68 H01F7/04 Y10T483/1726 B25J9/1689 B66C13/44 B25J9/0087 B66C1/425 B25J9/0084 B66F9/182 B25J15/0608 B25J11/00 B25J13/08 B25J9/162 B25J3/04 B25J5/005 B25J13/025
European: B25J13/02 B25J13/02H B25J3/04 B25J5/00T B25J5/00W B25J9/00P B25J9/00P2 B25J9/16T4
US: 294/65.5 318/568.22 414/1 414/2 414/800 483/27 700/213 700/228 700/245 700/246 700/247 700/248 700/250 700/257 700/258 700/260 700/262 700/264 901/40 901/46



Family:

Publication number	Publication date	Application number	Application date
CN103648730 A	20140319	CN201280031812	20120427
EP2701881 A2	20140305	EP20120720349	20120427
IN02134MN2013 A	20150102	IN2013MN02134	20131114
JP2014512976 T2	20140529	JP20140508144T	20120427
JP2018043343 A2	20180322	JP20170239642	20171214
JP6320915 B2	20180509	JP20140508144T	20120427
US2012277901 AA	20121101	US20110332138	20111220
US2012277911 AA	20121101	US20110332160	20111220
US2012277915 AA	20121101	US20110332129	20111220
US2012328395 AA	20121227	US20110332165	20111220
US2013011220 AA	20130110	US20110332152	20111220
US2013013108 AA	20130110	US20110332146	20111220
US2015142172 AA	20150521	US20150606962	20150127
US2015203340 AA	20150723	US20140543733	20141117
US2018193999 AA	20180712	US20170786472	20171017
US8892258 BB	20141118	US20110332160	20111220
US8942846 BB	20150127	US20110332152	20111220
US8977388 BB	20150310	US20110332138	20111220
US8977398 BB	20150310	US20110332129	20111220
US9533411 BB	20170103	US20150606962	20150127
US9789603 BB	20171017	US20110332165	20111220
WO12149363 A2	20121101	WO2012US35511	20120427
WO12149363 A3	20130418	WO2012US35511	20120427
WO12149392 A2	20121101	WO2012US35553	20120427
WO12149392 A3	20130103	WO2012US35553	20120427
WO12149402 A2	20121101	WO2012US35570	20120427
WO12149402 A3	20130613	WO2012US35570	20120427
WO12149435 A2	20121101	WO2012US35609	20120427
WO12149435 A3	20130912	WO2012US35609	20120427
WO12149446 A2	20121101	WO2012US35620	20120427
WO12149446 A3	20130912	WO2012US35620	20120427
WO12170123 A2	20121213	WO2012US35592	20120427
WO12170123 A3	20130926	WO2012US35592	20120427

Priority:

US20110481103P 20110429 US20110481110P 20110429 US20110481089P 20110429
US20110481099P 20110429 US20110481095P 20110429 US20110481091P 20110429
US20110332129 20111220 US20110332138 20111220 US20110332160 20111220
US20110332146 20111220 US20110332152 20111220 US20110332165 20111220
JP20140508144T 20120427 WO2012US35620 20120427 US20140543733 20141117
US20150606962 20150127 US20170786472 20171017

Probable Assignee: RAYTHEON CO

Assignee(s): (std): RAYTHEON CO ; RATHEON COMPANY ; MCCULLOUGH JOHN ; OLIVIER MARC X ; SMITH FRASER M ; STILSON SHANE ; SCROGGIN WAYCO ; RATHEON CO ; SARCOS LC ; COLVIN GLENN E JR ; COLVIN JR GLENN ; COLVIN JR GLENN E ; JACOBSEN STEPHEN C

Assignee(s): RAYTHEON COMPANY ; COLVIN GLENN E

Inventor(s): (std): COLVIN GLENN E JR ; STILSON SHANE ; SCROGGIN WAYCO ; COLVIN JR GLENN E ; MARC X OLIVIER ; FRASER M SMITH ; WAYCO SCROGGIN ; JOHN MCCULLOUGH ; GLENN E COLVIN JR ; STEPHEN C JACOBSEN ; MCCULLOUGH JOHN ; SMITH FRASER M ; JACOBSEN STEPHEN C ; OLIVIER MARC X ; COLVIN JR GLENN

Inventor(s): COLVIN GLENN E

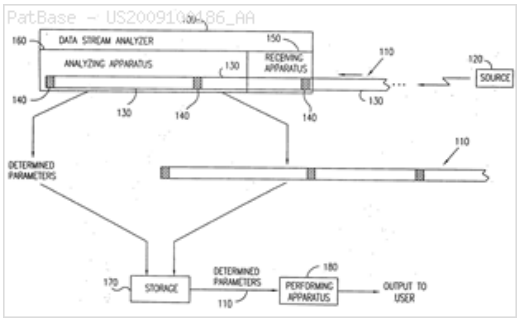
Agent(s): TIILIKAINEN JARKKO TAPIO; THORPE NORTH AND WESTERN LLP; JOHNSON CHRISTOPHER L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

252) Family number: 29449746 (US2009100186A)

Title: SYSTEM FOR DATA STREAM PROCESSING

Abstract: A method for processing a data stream including receiving a transport stream (TS), storing at least a portion of the TS, the at least a portion of the TS having a beginning and including a plurality of TS packets, determining, from among the plurality of TS packets, at least one TS packet including a candidate access point, storing in an index store a byte offset of the candidate access point; and storing in the index store a plurality of indications of byte offset, each byte offset being associated with an arrival time of a received TS packet.



Classifications:
International (IPC 8-9): B26F1/26 B28D1/14 G06F15/16 G11B27/10 H04L12/28 H04L12/56 H04N H04N5/783 H04N5/913 H04N7/167 H04N7/173 H04N7/24 H04N9/804 H05B6/80 (Advanced/Invention); B28D1/14 H04N5/913 H04N7/167 H04N9/804 H05B6/80 (Advanced/Non-invention); B26F1/00 B28D1/14 H05B6/80 (Core/Invention)
International (IPC 1-7): B23K26/00 B26F1/26 B28D1/14 G11B27/10 H04N7/167 H04N7/173 H04N7/24 H05B6/72 H05B6/76 H05B6/80
CPC: H04N21/2381 H04N21/42661 H04N21/4363 H04N21/4381 H04N21/23476 G11B27/105 G11B2220/20 G11B2220/415 H04N5/783 H04N7/1675 H04N9/8042 H04N21/4147 H04N21/440245 H04N21/8455 H04N2005/91364 H05B6/705 H05B6/70 Y10T83/041 Y10T83/283
European: G11B27/10A1 H04N21/2347P H04N21/2381 H04N21/4147 H04N21/426H H04N21/4363 H04N21/438D H04N21/4402P H04N21/845P H04N5/783 H05B6/70 H05B6/70T S11B220/20 S11B220/41B T04N5/913M2 T04N7/167D T04N9/804B
US: 219/384 219/690 219/695 219/748 348/E07.056 348/E7.056 348/E70.56 370/395.64 370/486 370/535 375/E07.004 375/E07.025 375/E7.004 375/E7.025 375/E70.04 375/E70.25 386/109 386/241 386/258 386/33 386/330 386/35 386/40 386/66 386/68 386/E05.052 386/E5.052 386/E50.52 709/231 709/231P 725/102 725/89 83/15 83/170 G9B/027.019 G9B/27.019

Family:

Publication number	Publication date	Application number	Application date
AT246430 E	20030815	AT20000925565T	20000516
AT246869 E	20030815	AT20000900332T	20000118
AT313216 E	20051215	AT20000075792T	20000516
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AU200044284 A1	20010606	AU20000044284	20000516
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EP1324614 A3	20031105	EP20030075792	20000516
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JP2002535155 T2	20021022	JP20000595518T	20000118
KR100517463 B1	20050927	KR20017008593	20000516
KR100719041 B1	20070516	KR20017009091	20000118
KR20010101408 A	20011114	KR20017008593	20000516
KR20010108112 A	20011207	KR20017009091	20000118
TW535432 B	20030601	TW20010111085	20010509
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US6114676 A	20000905	US19990232674	19990119
US7106749 BA	20060912	US20000574096	20000518
US7580416 BB	20090825	US20060494153	20060726
WO0044202 A1	20000727	WO2000IL00032	20000118
WO0135669 A1	20010517	WO2000IL00276	20000516
WO0135669 C1	20011004	WO2000IL00276	20000516

Priority:

US19990232674 19990119 IL19990132859 19991110 WO2000IL00032 20000118
EP20000925565 20000516 WO2000IL00276 20000516 US20000574096 20000518
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Probable Assignee: SYNAMEDIA LTD

Assignee(s): (std): JERBY ELI ; NDS LTD ; NDS LIMITED ; DARSHAN EZRA ; DIKHTIAR VLADIMIR ; SCHLISSEL MOSHE ; WACHTFOGEL REUVEN ; SHLISSEL MOSHE ; RAMUT UNIV AUTHORITY FOR ; RAMUT UNIVERSITY AUTHORITY FOR ; UNIV RAMOT

Assignee(s): RAMUT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AN ; RAMUT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD ; SYNAMEDIA LTD ; RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD ; RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL ; RAMOT UNIV AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD ; RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD TEL AVIV ; RAMUT UNIV AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL DEVELOPMENT LTD ; REUVEN WACHTFOGEL ; EZRA DARSHAN ; CISCO SYSTEMS INC ; CISCO TECHNOLOGY INC ; JP MORGAN EUROPE LTD ; NDS HOLDCO INC ; MOSHE SHLISSEL ; NEWS DATACOM LTD ; JPMORGAN EUROPE LTD ; NDS GB GB LTD ; NDS LTD STAINES ; RAMOT UNIV ; RAMOT UNIV AUTHORITY ; RAMOT UNIV AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL

Inventor(s): (std): BARSHAN E ; DARSHAN EZRA ; DARSHAN EZRA C O NDS TECHNOLIG ; DARSHAN EZRA NDS TECHNOLOGIES ; DIKHTIAR VLADIMIR ; E BARSHAN ; EZRA DARSHAN ; JERBY ELI ; M SCHLISSEL ; MOSHE SCHLISSEL ; R WACHTFOGEL ; REUVEN WACHTFOGEL ; SCHLISSEL M ; SCHLISSEL MOSHE ; SHLISSEI MOSHE ; SHLISSEL MOSHE ; WACHTFOGEL E BARSHAN M SCHLISS ; WACHTFOGEL R ; WACHTFOGEL REUVEN

Inventor(s): VLADIMIR DIKHTIAR ; MOSHE SHLISSEL ; E BARSHAN M SCHLISSEL R WACHTFOGEL ; ELI JERBY

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; NTD PATENT AND TRADE MARK AGENCY LTD; SANFORD TCOLB AND CO; REINHOLD COHN AND PARTNERS; DARBY AND DARBY; HUSCH BLACKWELL SANDERS LLP WELSH AND KATZ

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

253) Family number: 29049747 (US2003167893A)

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Title: APPARATUS AND METHODS USABLE IN CONNECTION WITH DISPENSING FLEXIBLE SHEET MATERIAL FROM A ROLL

Abstract: A powered dispenser for dispensing individual sheet segments from a continuous roll of sheet material provided with spaced tear lines comprises a powered feed mechanism, a releasable, powered drive mechanism, a powered transfer mechanism, a pair of web sensing sensors, a capacitive sensing system providing automatic sensitivity adjustment, and control circuitry. A dual power supply system provides a mechanical lock-out functionality, and the control system is protected from electrostatic build-up on the surface of the feed roller. The web sensor, and an antenna plate of the capacitive sensing system, are provided on respective printed circuit boards mounted in overlying relation. Utilizing signals received from the pair of web sensors and the capacitive sensing system, the control circuitry senses the presence of a user to activate the powered drive mechanism, and prevents further dispensing of the sheet material until a previously dispensed segment is separated from the roll. The web sensors detection of a leading edge of the sheet material initiates a predetermined interval of sheet material advancement providing a proper placement of successive tear lines. Various approaches may be utilized to accommodate inadvertent sheet "tabbing" scenarios. The web sensors, together with the control circuitry, are also used to detect the depletion, or absence, of a working roll of sheet material, whereupon the control circuitry controls the powered transfer mechanism to automatically transfer the web feed supply from a depleted working roll to a reserve roll. The powered transfer mechanism may include a motor driven transfer bar, or provide motor driven release of a spring biased transfer bar. Another arrangement allows for ready release of a roll core, and drop of the same into an open dispenser cover for removal.

Classifications:

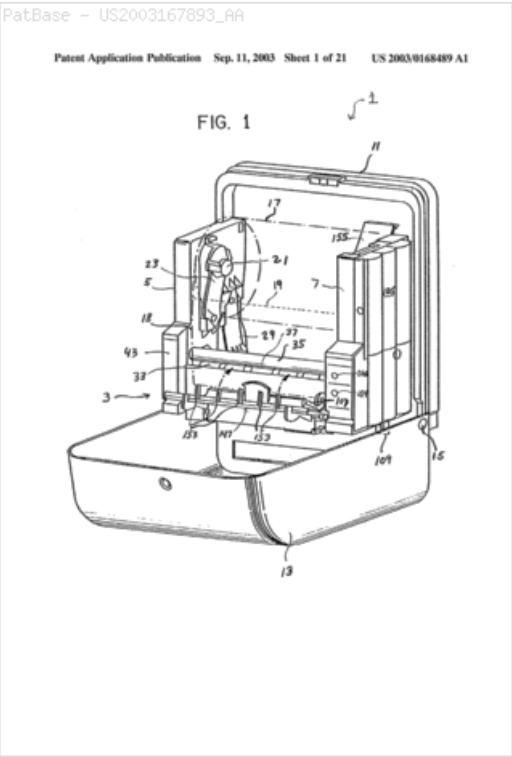
International (IPC 8-9): A47K10/36 B26D7/00 B26F3/02 B65D83/08 B65H16/10 B65H19/00 B65H19/18 B65H23/185 B65H3/00 B65H35/10 B65H43/00 G08B21/00 (Advanced/Invention)

International (IPC 1-7): B26D7/00 B26F3/00 B26F3/02 B65H16/10 B65H19/00 B65H19/16 B65H26/00 B65H35/10 B65H49/34 B65H67/00 G01N27/22 G01R27/26 G01R31/00 G01R33/00

CPC: Y10T83/541 Y10T83/8822 Y10T83/889 Y10T83/896 Y10T225/12 Y10T225/205 Y10T225/209 Y10T225/232 Y10T225/238 Y10T225/268 Y10T225/30 H03K2017/9606 A47K2010/3668 B65H35/10 A47K10/36 A47K10/3612 A47K10/3625 A47K2010/3881

European: A47K10/36 B65H35/10 T03K17/96A1A

US: 221/1 221/1P 221/258 221/36 221/36S 225/10 225/14 225/2 225/2P 225/34 225/39 225/39S 225/65 225/93 225/93S 242/550 242/555.1 242/56 242/560 242/560.1 242/560S 242/563 242/563.2 242/563P 242/564 242/564.1 242/564.100P 242/564.100S 242/564.3 242/564.4 242/564S 324/207.12 324/225 324/409 324/409P 324/658 340/686.6 340/686.600S 83/370 83/614 83/648 83/649 83/649P



Family:

Publication number	Publication date	Application number	Application date
US2003167893 AA	20030911	US20020211333	20020805
US2003168489 AA	20030911	US20020092350	20020307
US2003168549 AA	20030911	US20020211334	20020805

US2003168550 AA	20030911	US20020211280	20020805
US2003169046 AA	20030911	US20020211301	20020805
US2005150992 AA	20050714	US20040925085	20040825
US2008011772 AA	20080117	US20070782227	20070724
US2008087758 AA	20080417	US20070953116	20071210
US2010089939 AA	20100415	US20090603288	20091021
US6710606 BB	20040323	US20020211301	20020805
US6830210 BB	20041214	US20020211334	20020805
US7114677 BB	20061003	US20020211280	20020805
US7237744 BB	20070703	US20040925085	20040825
US7341170 BB	20080311	US20020092350	20020307
US7624664 BB	20091201	US20020211333	20020805
US7698980 BB	20100420	US20070782227	20070724
US7845593 BB	20101207	US20070953116	20071210
US8186551 BB	20120529	US20090603288	20091021

Priority:

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US20020211333 20020805 US20020211334 20020805 US20040925085 20040825
US20070782227 20070724 US20070953116 20071210 US20090603288 20091021

Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std)**:** GEORGIA PACIFIC CONSUMER PROD ; GEORGIA PACIFIC CORP ; GEORGIA PACIFIC CONSUMER OPERA ; SUSI MICHAEL A ; MORRIS ANDREW R

Assignee(s): GPCP IP HOLDINGS LLC ; GEORGIA PACIFIC CONSUMER OPERATIONS LLC ; CITICORP NORTH AMERICA INC ; COLOR BOX LLC DELAWARE LIABILITY CO LTD ; DIXIE CONSUMER PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CHEMICALS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CONSUMER PRODUCTS LLC ; GEORGIA PACIFIC CONSUMER PRODUCTS LP ; GEORGIA PACIFIC CONSUMER PRODUCTS LLP ; GEORGIA PACIFIC CONSUMER PRODUCTS LP DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CORRUGATED LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC GYPSUM LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC LLC DELAWARE PARTNERSHIP LTD ; GEORGIA PACIFIC WOOD PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GP CELLULOSE GMBH ZUG SWITZERLAND LIABILITY CO LTD

Inventor(s): (std)**:** FORMON JOHN S ; GAHRIS DAVID ; ISAKSSON WILL ; BOONE BRUCE T ; DOWD PAUL ; MORRIS ANDREW R ; MURPHY JAMES H ; SUSI MICHAEL A

Inventor(s): BOONE BRUCE ; SUSI MICHAEL ; FORMON JOHN ; MORRIS ANDREW

Agent(s): BANNER AND WITCOFF; PATENT GROUP GA030-43, GEORGIA-PACIFIC LLC; PATENT GROUP GA030 43 GEORGIA PACIFIC LLC; GEORGIA-PACIFIC LLC; BANNER AND WITCOFF LTD; JOEL T; CHARLTON JOEL T; GEORGIA PACIFIC LLC; DEBORAH K

254) Family number: 42424747 (EP1985726A1)

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Title: CUTTER TOOL WITH A CUTTING EDGE REINFORCED WITH HARD MATERIAL

Abstract: Cutting tool (1) comprises a base body having a surface provided with a hard material layer in the region of a cutting edge (2).

Classifications:
International (IPC 8-9): B23P15/40 B26B5/00 B26B9/00 B26D1/00 C23C30/00 (Advanced/Invention)
CPC: B26B3/00 B26B3/03 B26B9/00 B26B23/00 B26D1/0006 B26D2001/002 C23C30/005
European: B26B23/00 B26B3/00 B26B3/03 B26B9/00 B26D1/00C C23C30/00B L26D1/00C4

PatBase - EP1985726_A1

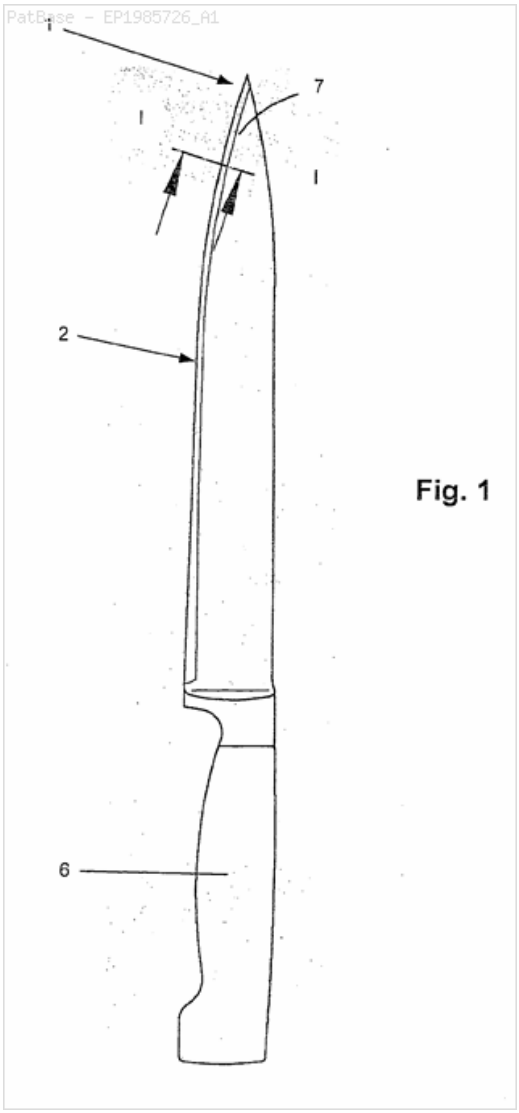


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
EP1985726 A1	20081029	EP20070008655	20070427

Priority:

EP20070008655 20070427

Probable Assignee: WMF AG

Assignee(s): (std)**:** WMF AG

Assignee(s): WMF AKTIENGESELLSCHAFT

Inventor(s): (std)**:** BUEHLMAIER GUENTER ; FRIZ WOLFGANG ; KAUPP HEINZ ; KEIFER ALEXANDER ; NEUMAYER MARTIN ; STAUDINGER THEDA

Agent(s): PFENNING MEINIG AND PARTNER GBR

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

255) Family number: 30574749 (US2006124470A)

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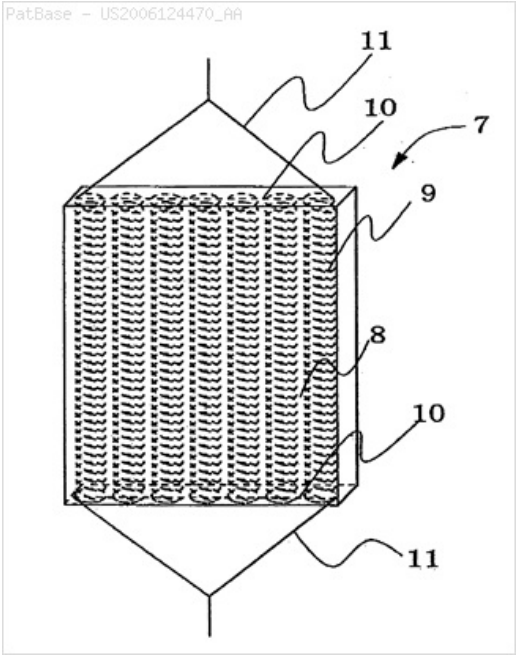
Title: CONDUCTIVE POLYMER COMPOSITE STRUCTURE

Abstract: In order to obtain actuator elements capable of being displaced such as expansion and contract or bending for practical use even when used as actuator elements with larger size, stacked layers or bundles in which conductive polymer-containing layers or fiber-like tubes are provided with conductive polymer composite structures which include conductive substrates and conductive polymers, said conductive substrates have deformation property, and conductivity of said conductive substrates is not less than $1.0x10^3$ S/cm are used.

Classifications:

International (IPC 8-9): B01J21/08 B01J23/20 B01J23/22 B01J23/847 B01J29/89 B25J19/00 B25J7/00 B32B27/06 B32B7/02 B32B9/04 B81B3/00 C07B61/00 C07C27/02 C07C29/128 C07C31/22 C07C51/43 C07C67/03 C07C67/58 C07C69/24 C07C69/533 C07C69/58 C08G61/12 C08G85/00 C08J5/04 C08L65/00 C08L73/00 C11C3/00 C11C3/10 C25D11/00 F03G7/00 F16F1/06 F16F15/00 H01B13/00 H01G9/00 H02N11/00 H02N2/00 (Advanced/Invention);
B01J21/06 B01J35/00 C07B61/00 (Advanced/Non-invention);
B01J21/00 B01J23/16 B01J23/76 B01J29/00 B25J19/00 B25J7/00 B32B27/06 B32B7/02 B32B9/04 B81B3/00 C07B61/00 C07C27/00 C07C29/00 C07C31/00 C07C51/42 C07C67/00 C07C69/00

C08G61/00 C08G85/00 C08J5/04 C08L65/00 C08L73/00 C11C3/00 C25D11/00 F03G7/00 F16F1/04 F16F15/00 H01B13/00 H01G9/00 H02N11/00 H02N2/00 (Core/Invention);
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CPC: B01J21/063 B01J21/066 B01J23/20 B01J23/22 B01J23/8472 B01J35/002 C11C3/003 Y02E50/13 Y10T29/417 Y10T428/32 Y10T428/325 F16F15/005 Y10T428/31504 Y10T428/31551
European: B01J23/20 B01J23/22 B01J23/847B C11C3/00B F16F15/00P L01J21/06T L01J21/06W L01J35/00D Y02E50/13
US: 205/317 29/25.03 29/25.030S 428/411.1 428/411.100P 428/423.1 428/423.100S 428/692.1 428/693.1 554/169 554/170 554/174 554/174P



Family:

Publication number	Publication date	Application number	Application date
AU2003277548 AA	20040607	AU20030277548	20031105
AU2004269265 AA	20050310	AU20040269265	20040830
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BRPI0414031 A	20061024	BR2004PI14031	20040830
CA2535747 AA	20060213	CA20042535747	20040830
CN1842586 A	20061004	CN200480024822	20040830
DE60341200 D1	20120802	DE20036041200	20031105
EP1589059 A1	20051026	EP20030810597	20031105
EP1589059 A4	20060201	EP20030810597	20031105
EP1589059 B1	20120606	EP20030810597	20031105
EP1660619 A1	20060531	EP20040772825	20040830
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IN00638KN2006 A	20070803	IN2006KN00638	20060320
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US7943240 BB	20110517	US20080131916	20080602
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Priority:

JP20020321671 20021105
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WO2004JP12876 20040830

Probable Assignee: EAMAX CORP

Assignee(s): (std): HARA SUSHUMU ; HARA SUSUMU ; ZAMA TETSUJI ; SEWA SHINGO ; NIPPON CATALYTIC CHEM IND ; OKU TOMOHARU ; NONOGUCHI MASANORI ; MORIGUCHI TOSHIMITSU ; NIPPON SHOKUBAI CO LTD ; EAMAX CORP ; EAMEX CO ; EAMEX CORP

Assignee(s): EAMEX SUITA SHI CORP ; NIPPON SHOKUBAI CO

Inventor(s): (std): HARA SUSHUMU ; HARA SUSUMU ; MASANORI NONOGUCHI ; SEWA SHINGO ; TOMOHARU OKU ; TOSHIMITSU MORIGUCHI ; ZAMA TETSUJI ; TOSHIMITSU OKU TOMOHARU NONOGU ; OKU TOMOHARU ; NONOGUCHI MASANORI ; MORIGUCHI TOSHIMITSU

Inventor(s): HARA SUSUMU C O EAMEX CORPORATION ; SEWA SHINGO C O EAMEX CORPORATION ; OKU TOMOHARU NONOGUCHI MASANORI MORIGUCHI TOSHIMIT ; OKU TOMOHARU NONOGUCHI MASANORI MORIGUCHI ; ZAMA TETSUJI C O EAMEX IKEDA SHI CORP ; ZAMA TETSUJI C O EAMEX CORPORATION ; SEWA SHINGO C O EAMEX IKEDA SHI CORP ; SHINGO SEWA ; SUSUMU HARA ; TETSUJI ZAMA ; OKU TOMOHARU NONOGUCHI MASANORI MORIGUCHI TOSHIMITSU ; HARA SUSUMU C O EAMEX IKEDA SHI CORP

Agent(s): GRIFFITH HACK; RICHES MCKENZIE AND HERBERT LLP; ISARPATENT PATENTANWAELTE BEHNISCH BARTH CHARLES HASSA PECKMANN AND PARTNER MBB; ISARPATENT; NOVAK DRUCE AND QUIGG LLP; CONNOLLY BOVE LODGE AND HUTZ LLP; WATCHSTONE P AND D PLC; WESTERMAN HATTORI DANIELS AND ADRIAN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

256) Family number: 69211761 (WO18067613A1)

Title: TOUCH-SENSING SYSTEM

Abstract: A method for a touch sensing system includes generating, by a first pair of electrodes at a first location in a conductive material, an electric field in the conductive material; generating measurement data by measuring, by one or more second pairs of electrodes, the electric field in the conductive material at one or more second locations in the conductive material, with each of the one or more second locations differing from the first location; generating, based on the measurement data, an approximation of the electric field in the conductive material; and classifying, based on the approximation, one or more regions of the interface into a given state.

Classifications:
International (IPC 8-9): B25J9/16 G08B21/00
H04B7/00 (Advanced/Invention)
CPC: G06F3/0488 B25J9/16 G06F3/0416 G06F3/046

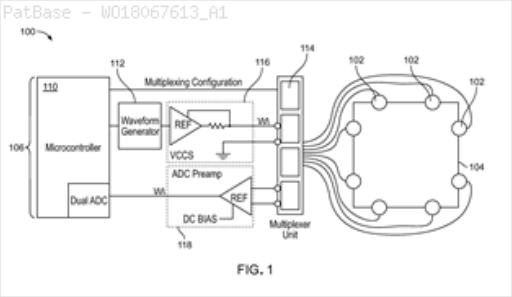


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
WO18067613 A1	20180412	WO2017US54999	20171003

Priority:

US20160496072P 20161003

Probable Assignee: HARRISON CHRISTOPHER

Assignee(s): (std)**:** HARRISON CHRISTOPHER

Inventor(s): (std)**:** HARRISON CHRISTOPHER ; LAPUT GIERAD ; ZHANG YANG

Agent(s): MCDONOUGH CHRISTINA V ET AL

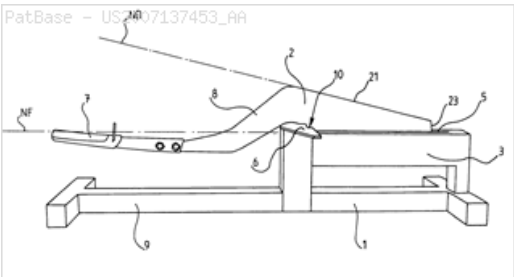
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257) Family number: 32505762 (US2007137453A)

Title: CUTTING TOOL FOR CUTTING A SHEET

Abstract: A cutting tool for cutting a sheet of material has a base, a support attached to the base, and a blade pivotally mounted on the support for moving the blade between an open position for receiving a sheet of material to be cut between the support and the blade, and a closed position after a cutting operation. The support includes a sloth configured to receive the blade during cutting. The blade has a flat cutting edge with an arcuate profile. The tool also has a stop for retaining the sheet to be cut on the support during cutting.

Classifications:
International (IPC 8-9): B26D1/00 B26D1/30 B26D5/00 B26D5/02 B26D5/08 B26D5/10 B26D7/01 B26D7/26
B28D1/22 (Advanced/Invention);
B26D1/00 B26D1/01 B26D5/00 B26D5/02 B26D5/08 B26D7/01 B26D7/26 B28D1/00 B28D1/22 (Core/Invention);
B26D (Subclass/Invention)
International (IPC 1-7): B26D1/00 B26D1/30 B26D5/10 B26D7/26
CPC: Y10T83/762 Y10T83/773 Y10T83/8878 B26D7/01 B26D2001/006 Y10T83/869 Y10T83/8749 Y10T83/8822 B26D1/305 B26D1/0006 B26D1/30 B26D7/015 B26D2001/0053 B26D2007/0087 B28D1/223
European: B26D1/00C B26D1/30 B26D1/30B B26D7/01C B28D1/22C1 L26D1/00C L26D1/00C12 L26D1/00C14 L26D7/00C25 L26D7/01 L26D7/01C
US: 83/468.3 83/468.300P 83/477.2 83/477.200S 83/523 83/523S 83/564 83/564P 83/614 83/614S 83/821 83/821S



Family:

Publication number	Publication date	Application number	Application date
AT430006 E	20090515	AT20060709043T	20060106
CA2599834 AA	20070831	CA20062599834	20060106
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Priority:

FR20050002395 20050310 WO2005FR01742 20050706 EP20060709043 20060106 WO2006FR00028 20060106

Probable Assignee: PIERRE GREHAL ET CIE ETS SA

Assignee(s): (std): MARCON LIONEL ; PIERRE GREHAL ET CIE SA ETS ; PIERRE GREHAT ET CIE ETS SA ; PIERRE GREHAL ET CIE S A ETS ; PIERRE GREHAT ET CIE SA ETS ; PIERRE GREHAI ET CIE SA ETS ; PIERRE GREHAL ET CIE ETS SA ; PIERRE GREHAI ET CIE ETS SA

Assignee(s): PIERRE GREHAL AND CIE ETS SA ; ETABLISSEMENTS PIERRE GREHAL ET COMPAGNIE SA ; PIERRE GREHAL ET CIE SOC ANONYME ETS ; ETABLISSEMENTS PIERRE GREHAT ET CIE SA ; ETABLISSEMENTS PIERRE GREHAI ET CIE SA ; ETABLISSEMENTS PIERRE GREHAL ET CIE SA ; ETABLISSEMENTS PIERRE GREHAL ET CIE SOCIETE ANONYM ; ETABLISSEMENTS PIERRE GREHAL ET CIE SOCIETE ANONYME ; ETABLISSEMENTS PIERRE GREHAL ET COMPAGNIE S A ; ETABLISSEMENTS PIERRE GREHAL ET COMPAGNIE S A SAIN ; ETABLISSEMENTS PIERRE GREHAL ET COMPAGNIE S A SAINT BRICE SOUS FORET ; PIERRE GREHAL ET COMP ETS SA

Inventor(s): (std): MARCON LIONEL

Inventor(s): LIONEL MARCON

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; BERGER HELMUT; LEYDIG VOIT AND MAYER LTD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

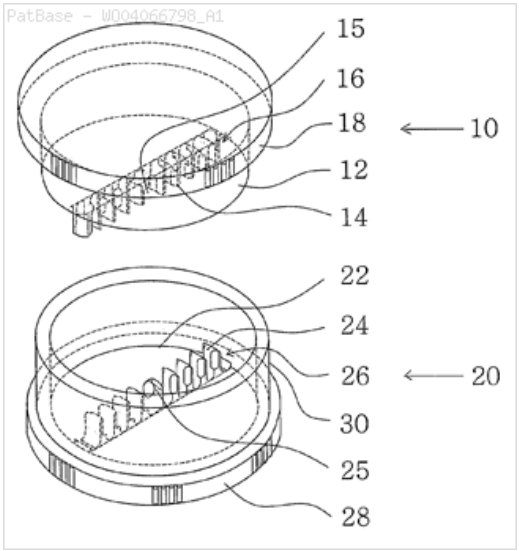
258) Family number: 30774764 (WO04066798A1)

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Title: ROTARY KITCHEN GARLIC TOOL

Abstract: In accordance with the present invention an innovative garlic tool consists of a set of two disc-shaped presser units (10, 20) having respective male and female rotary grating means (14, 24) comprising a row of protruding grater elements each. Unpeeled garlic cloves can be crush-peeled and then be grated by hand-applied counter-twisting. Processing can be precisely controlled by continuous visual monitoring and repeated grating to achieve optimal bit size and texture. This device is truly remarkable in its complete functionality, and in its simple, compact, and elegant two piece form-follows-function design.

Classifications:
International (IPC 8-9): A47J19/06 A47J42/04 A47J42/34 A47J43/25 B26D3/24 (Advanced/Invention)
International (IPC 1-7): A47J42/04
CPC: A47J19/06 A47J42/34
European: A47J19/06 A47J42/34



Family:

Publication number	Publication date	Application number	Application date
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CA2495706 C	20091124	CA20032495706	20030121
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Priority:

WO2003US01724 20030121

Probable Assignee: ERIC TENG

Assignee(s): (std)**:** ERIC TENG ; TENG ERIC

Inventor(s): (std)**:** TENG ERIC ; ERIC TENG

Agent(s): SMART AND BIGGAR; LIND URBAN ARVID OSKAR

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

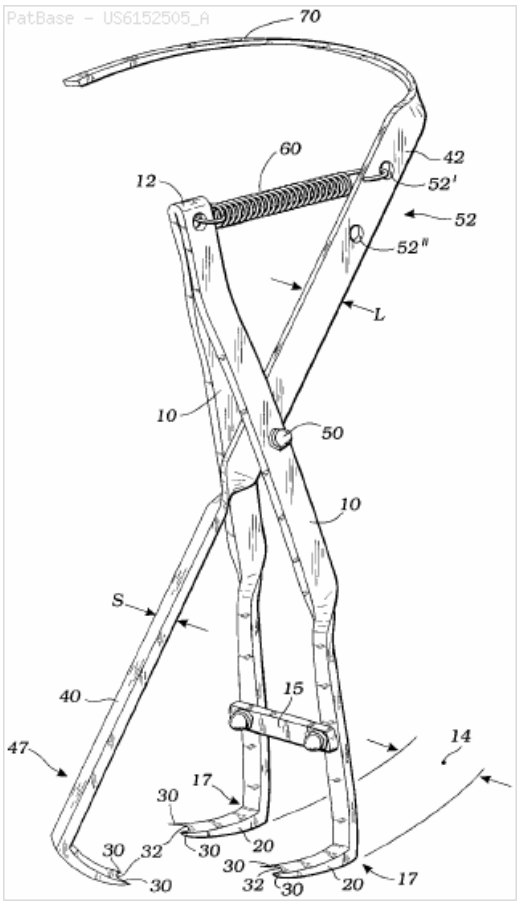
259) Family number: 12696770 (US6152505A)

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Title: Glazing tongs

Abstract: A tongs provides a set of opposing feet with pointed toes so as to securely grip unfired ware such as ceramic or clay pots and the like. Two feet on one side move in opposition to a single foot on the opposing side of the device and are drawn together by the biasing spring. An upwardly directed, hook like handle is used to hold and manipulate the tongs and to hang the tongs and greenware during drying.

Classifications:
International (IPC 8-9): B25B5/06 B25B9/00 B65G7/12 (Advanced/Invention); B25B5/00 B25B9/00 B65G7/00 (Core/Invention)
International (IPC 1-7): B65G7/12
CPC: B25B5/06 B25B9/00 B65G7/12
European: B25B5/06 B25B9/00 B65G7/12
US: 294/118 294/16 294/28



Family:

Publication number	Publication date	Application number	Application date
US6152505 A	20001128	US19990369751	19990806

Priority:

US19990369751 19990806

Probable Assignee: COYNE KENNETH GEROD

Assignee(s): (std)**:** COYNE KENNETH GEROD

Inventor(s): (std)**:** COYNE KENNETH GEROD

260) Family number: 32847774 (US2006236642A)

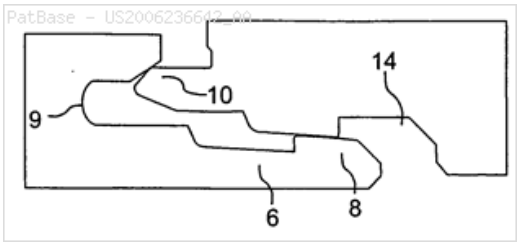
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Title: MECHANICAL LOCKING SYSTEM FOR PANELS AND METHOD OF INSTALLING SAME

Abstract: Floor panels (1, 1 ') are provided with a mechanical locking system including a flexible locking element 15 in a locking groove 14 which during a horizontal motion is displaced vertically.

Classifications:
International (IPC 8-9): B25B27/00 B25B27/30 B25B33/00 B27D5/00 B27M3/00 B27M3/04 B65D69/00 E04B1/38 E04B1/48 E04B1/61 E04B2/00 E04B2/20 E04B5/00 E04B5/02 E04B5/32 E04B5/43 E04C2/20 E04C2/22 E04C2/38 E04C2/40 E04C3/00 E04F13/08 E04F15/00 E04F15/02 E04F15/04 E04F15/10 E04F15/16 E04F15/18 E04F21/22 E04G17/02 E04G21/16 E04G23/00 E05C19/06 F16B5/00 F16B5/06 F16B5/07 F16B5/10 (Advanced/Invention);

E04B1/58 E04B1/61 E04F15/00 E04F15/02 E04F15/04
F16B5/00 (Advanced/Non-invention);
B25B27/14 B27D5/00 B27M3/00 B27M3/04 B65D69/00 E04B2/00 E04B5/00 E04C3/00 E04F15/00 E04F15/02 E04F15/04 E04F15/16 E04G17/02 E04G21/16 E04G23/00 E05C19/00 F16B5/00 F16B5/06 (Core/Invention);
B25B E04F E05C F16B (Subclass/Invention)
International (IPC 1-7): E04C3/00 E04F15/02 E04F15/04
CPC: E04F15/02005 E04F15/105 E04B5/023 E04B5/00 F16B5/0016 Y10S292/38 Y10S292/53 Y10T403/54 Y10T403/581 Y10T428/167 E04F15/02022 E04F2201/05 E04F15/02038 E04F13/0894 E04F2201/02 E04F15/18 E04F15/02 E04B1/54 E04B1/5818 E04F15/04 E04F21/22 E04F2201/0115 E04F2201/0138 E04F2201/0146 E04F2201/0153 E04F2201/0176 E04F2201/023 E04F2201/042 E04F2201/0523 E04F2201/0547 E04F2201/0576 E04F2201/0582 E04F2201/0588 F16B5/0076 F16B5/008
European: E04F15/02 E04F21/22 E04G23/00D F16B5/00A1B2 P04F15/04 P04F201/01A1 P04F201/01C P04F201/01C1 P04F201/01D P04F201/01E1 P04F201/02B P04F201/04B P04F201/05D P04F201/05D12D P04F201/05D12F P04F201/05D12H P04F201/05D6 R16B5/00A3E R16B5/00A4
US: 1/1 292/DIG.38 292/DIG.53 403/291 403/316 428/50 52/285.1 52/309.1 52/309.100S 52/309.13 52/309.130P 52/391 52/395 52/395P 52/396.04 52/578 52/578P 52/582.1 52/582.2 52/582.200S 52/585.1 52/586.1 52/586.2 52/588.1 52/588.100P 52/588.100S 52/590.2 52/591.1 52/591.5 52/592.1 52/592.100S 52/592.3 52/592.4 52/745.13 52/745.19 52/745.190S 52/745.2 52/745.200S 52/747.1 52/747.100S 52/749.1 52/749.100S 52/792.11 52/792.110P



Family:

Publication number	Publication date	Application number	Application date
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US2015267419 AA	20150924	US20150730691	20150604
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US10240348 BB	20190326	US20130046235	20131004
WO06043893 A1	20060427	WO2005SE01586	20051021
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ZA200704038 A	20080827	ZA20070004038	20051021
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Priority:

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Probable Assignee: VALINGE ALUMINIUM AB

Assignee(s): (std): HAKANSSON NICLAS ; NYGREN PER ; PERVAN DARKO ; VAELINGE INNOVATION AB ; VALINGE ALUMINIUM AB ; VALINGE INNOVATION AB ; VOLINGE INNOVATION AB ; VAENGE INNOVATION AB ; VELINGE INNOVEJSHN AB ; BERGELIN MARCUS ; HAAKANSSON NICLAS ; VAELLINGE INNOVATION AB ; VELINGE INNOVATION AB

Assignee(s): VAELINGE ALUMINIUM AB ; HAEKANSSON NICLAS ; VALINGE INNOVATION AG

Inventor(s): (std): BERGELIN MARCUS ; DARKO PERVAN ; HAKANSSON NICLAS ; HAAKANSSON NICLAS ; HAEKANSSON NICLAS ; HAKAANSSON NICLAS ; NYGREN PER ; NICLAS HAKANSSON ; KHOKANSSON NIKLAS ; NJUGREN PER ; NICLAS HAAKANSSON ; KANSSON NICLAS H ; PERVAN DARKO ; PER PERVAN DARKO HAAKANSSON NI ; PER NYGREN

Inventor(s): PERVAN DARKO HAAKANSSON NICLAS NYGREN PER ; NICLAS HAKAANSSON ; NICLAS H KANSSON

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FETHERSTONHAUGH AND CO; AKESSON STEN JAN AKE ET AL; AKESSON STEN JAN AKE; ENGSTRAND OLA; DE ELZABURU ALBERTO; DE JUSTO MARIO; LINAGE RAFAEL; DEL VALLE SONIA; REINHOLD COHN AND PARTNERS; NAGAI HIROSHI; EVIN KAZMIRCI; AYLIN SENER; TOLGA CAYLAK; BUCHANAN INGERSOLL AND ROONEY PC; BUCHANAN INGERSOLL AND ROONEY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

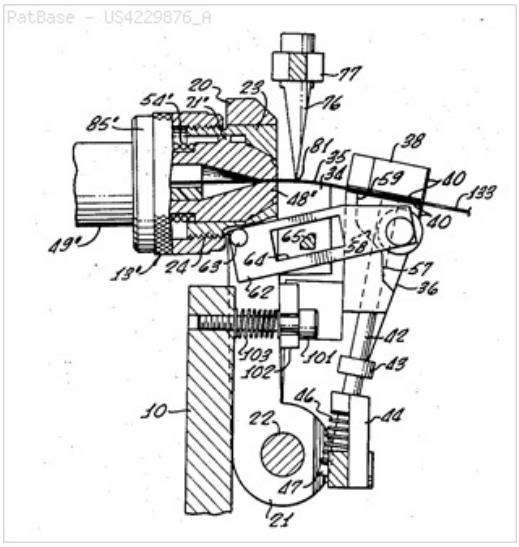
261) Family number: 1551779 (US4229876A)

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Title: OPTICAL FIBER BREAKER AND METHOD, AND COMBINATION BREAKER AND OPTICAL CONNECTOR

Abstract: The present apparatus and method make it extremely easy for a worker, even when located in a manhole or on a telephone pole, to rapidly achieve a perfect break in an optical fiber and at a precisely predetermined position relative to a connector means. The breaking is the same, regardless of the upright, inverted or inclined position of the tool. Only a single motion of the blade is required at any desired speed, and there is no necessity for the blade to contact the fiber at a pressure within certain limits. These and other major results are obtained by clamping an optical connector element to the optical fiber before breaking is effected, and then removably securing the connector element to the breaker at a precisely known position which is correlated to the location of the scoring blade and to the characteristics of the connector. The fiber is then clamped, bent, tensioned and scored in response to a single squeezing and releasing motion by one hand of the operator-these actions being substantially entirely unaffected by excessively hard squeezing forces. The scoring is effected by a hard-mounted tungsten carbide blade which moves, in an arcuate path, toward and across the tensioned fiber. The blade is of a certain type which-when thus moved-causes scoring to occur so instantaneously that, despite the indicated hard mounting, there is almost no danger that the fiber end will be crushed or otherwise damaged. In a second embodiment, means are provided to heat the fiber for rapid burning of the synthetic resin coating therefrom. The invention includes not only the breaker and method per se, but also the apparatus and method whereby the breaker is combined with an optical connector to create a combination breaker and connector.

Classifications:
International (IPC 8-9): C03B33/06 C03B33/12 C03B37/16 D01G1/00 G02B6/00 G02B6/245 G02B6/25 (Advanced/Invention); C03B37/10 D01G1/00 G02B6/00 G02B6/245 G02B6/25 (Core/Invention)
International (IPC 1-7): B26B27/00 B26F3/00 C03B33/00 C03B33/06 C03B33/10 C03B33/12 C03B37/00 C03B37/10 D01G1/00 G02B5/14 G02B7/00 H04B9/00
CPC: G02B6/25 C03B37/16 G02B6/245 Y10T29/49904 Y10T225/325 Y10T225/357 Y10T225/386
European: C03B37/16 G02B6/245 G02B6/25
US: 225/101 225/105 225/96.5 29/469 385/134



Family:

Publication number	Publication date	Application number	Application date
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DE2919121 A1	19791115	DE19792919121	19790511
FR2425651 A1	19791207	FR19790011994	19790511
GB2021094 A1	19791128	GB19790016476	19790511
GB2021094 B2	19821124	GB19790016476	19790511
JP54149654 A2	19791124	JP19790050772	19790424
US4229876 A	19801028	US19780937722	19780829

Priority:
US19780905294 19780512 US19780937722 19780829 CA19790327439 19790511

Probable Assignee: DEUTSCH CO ELEC COMP

Assignee(s): (std): BOWTHORPE HELLERMANN LTD ; CO EREKUTORONITSUKU KONPOONENT ; DEUTSCH CO ELEC COMP ; DOITSUCHIE CO EREKUTORONITSUKU

Assignee(s): DEUTSCH CY ELECTRONIC COMPONENTS ; THE DEUTSCH COMPANY ELECTRONIC COMPONENTS DIVISION ; DEUTSCH COMPANY ELECTRONIC COMPONENTS DIVISION THE ; THE DEUUTSCH COMPANY ELECTRONIC COMPONENTS DIVISION ; DOTY JOHN S ; DEUTSCH CO ELECTRONIC COMPONENTS DIVISION ; DEUTSCH CO ELECTRONIC COMPONENTS DIVISION TH ; DEUTSCH CO ELECTRONIC COMPONENTS DIVISION THE

Inventor(s): (std): DOTY JOHN S ; DOTY JOHN SAMUEL ; JIYON SAMUERU DOTEI

Inventor(s): SAMUEL DOTY JOHN

Agent(s): RIDOUT AND MAYBEE LLP

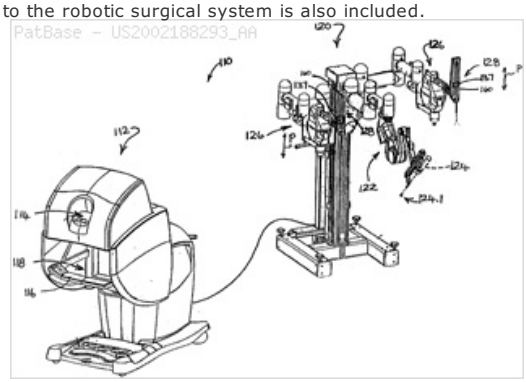
262) Family number: 31429786 (US2002188293A)

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Title: ROBOTIC TOOL WITH MONOPOLAR ELECTRO-SURGICAL SCISSORS

Abstract: The present invention provides robotic surgical instruments and systems that include electrosurgical cutting/shearing tools and methods of performing a robotic surgical procedure. The surgical instruments can advantageously be used in robotically controlled minimally invasive surgical operations. A surgical instrument generally comprises an elongate shaft having a proximal end and a distal end. An end effector, for performing a surgical operation such as cutting, shearing, grasping, engaging, or contacting tissue adjacent a surgical site, is coupleable to a distal end of the shaft. Preferably, the end effector comprises a pair of scissor-like blades for cooperatively shearing the tissue. A conductor electrically communicating with at least one blade delivers electrical energy to tissue engaged by the blades. An interface coupled to the proximal end of the shaft and removably connectable to the robotic surgical system is also included.

Classifications:
International (IPC 8-9): A61B17/00 A61B17/32 A61B17/3201 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B19/00 A61B34/30 A61B34/37 (Advanced/Invention); A61B17/00 A61B17/29 A61B18/00 A61B18/14 A61B19/00 A61B34/00 A61B90/00 (Advanced/Non-invention); A61B18/14 A61B18/18 A61B19/00 (Core/Invention); A61B17/00 A61B18/00 A61B19/00 (Core/Non-invention)
International (IPC 1-7): A61B17/20 A61B17/32 A61B18/18 B25J11/00
CPC: A61B18/14 A61B2018/00988 A61B2018/1422 A61B18/1442 A61B17/3201 A61B18/1445 A61B2017/00477 A61B2017/2926 A61B2017/2931 A61B2017/2932 A61B2017/2933 A61B2017/2945 A61B2018/00083 A61B2018/00178 A61B2018/1432 A61B2018/146 A61B19/2203 A61B19/5212 A61B2019/2223 A61B2019/2242 A61B2019/2246 A61B34/30 A61B2034/305 A61B2034/715 A61B34/37 A61B34/71 A61B90/361
European: A61B17/3201 A61B18/14 A61B18/14F A61B18/14F2 A61B19/22B K61B17/00K K61B17/29J K61B17/29J4 K61B17/29J6 K61B17/29J6C K61B17/29J8 K61B18/00B10E K61B18/00B2G4 K61B18/00T K61B18/14 K61B18/14C10 K61B18/14C12C K61B18/14F2 K61B18/14F8 K61B19/22B K61B19/22B10 K61B19/22B16 K61B19/22D K61B19/22D2 K61B19/52D
US: 1/1 128/898 604/22 604/22S 606/1 606/130 606/130P 606/167 606/167S 606/170 606/170S 606/1S 606/207 606/34 606/39 606/39P 606/41 606/41P 606/45 606/45P 606/45S 606/48 606/49 606/49S 606/50 606/50S 606/51 606/52 901/14 901/29 901/3 901/30 901/30S



Family:

Publication number	Publication date	Application number	Application date
US2002188293 AA	20021212	US20020126451	20020418
US2004267254 AA	20041230	US20030611411	20030630
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US2010198218 AA	20100805	US20100753197	20100402
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Priority:

US20010285502P 20010419 US20020126451 20020418 US20030611411 20030630
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US20130768895 20130215

Probable Assignee: INTUITIVE SURGICAL OPERATIONS INC

Assignee(s): (std)**:** HEATON LISA ; HEATON LISA W ; INTUITIVE SURGICAL ; INTUITIVE SURGICAL INC ; INTUITIVE SURGICAL INC A DELAW ; SCOTT MANZO ; INTUITIVE SURGICAL OPERATIONS ; MANZO SCOTT ; MANZO SCOTT E ; SCOTT MANZO E

Assignee(s): INTUITIVE SURGICALINC ; INTUITIVE SURGICAL INC A DELAWARE CORP ; INTUITIVE SURGICAL OPERATIONS INC

Inventor(s): (std)**:** HEATON LISA ; HEATON LISA W ; KROM JUSTIN ; MANZO SCOTT ; MANZO SCOTT E ; ORBAN III JOSEPH P ; ORBAN JOSEPH P ; RAMANS ANDRIS ; SCOTT MANZO ; SCOTT MANZO E ; WILLIAMS MATT

Agent(s): INTUITIVE SURGICAL; PATENT COUNSEL INTUITIVE SURGICAL INC; PATENT DEPT INTUITIVE SURGICAL OPERATIONS INC; TOWNSEND AND TOWNSEND

263) Family number: 62649787 (US2016167214A)

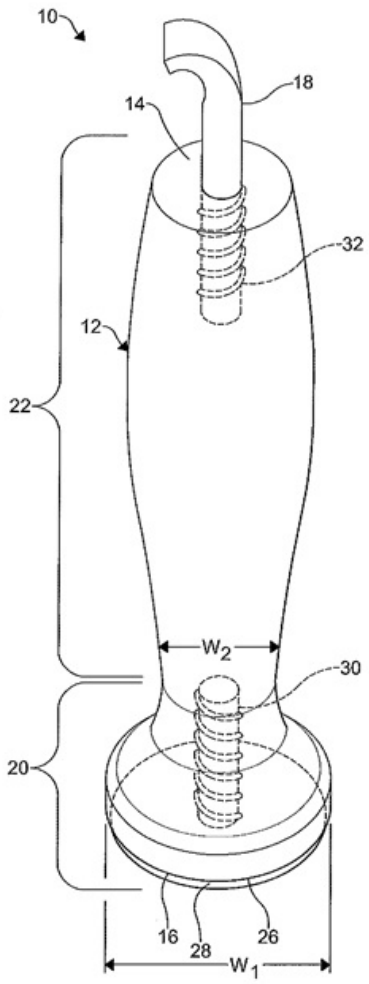
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Title: PAINT CAN UTILITY TOOL

Abstract: A utility tool for removal and sealing of a lid of a container includes a handle having a first end and a second end. A hook is disposed at the first end of the handle. The hook is configured for prying the lid from the container. A mallet portion is disposed at the second end of the handle.

Classifications:
International (IPC 8-9): B25F1/00 (Advanced/Invention)
CPC: B25F1/006
US: 7/146

PatBase - US2016167214_AA



Family:

Publication number	Publication date	Application number	Application date
US2016167214 AA	20160616	US20150965993	20151211

Priority:

US20140090897P 20141212 US20150965993 20151211

Probable Assignee: CRAIG CAROLE LYNN

Assignee(s): (std)**:** CRAIG CAROLE LYNN ; CRAIG ROBERT ALLEN

Inventor(s): (std)**:** CRAIG CAROLE LYNN ; CRAIG ROBERT ALLEN

264) Family number: 45956792 (US2013031753A)

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Title: FIXATING COMPONENT FOR A FIXTURE

Abstract: The present invention relates to a fixture and/or locator for supporting and positioning and/or calibrating an object comprising a male or female portion of an interlock mechanism, the fixture and/or locator comprising: at least one fixating (2) component for holding the object in a fixed position, characterized in that, the at least one fixating component comprises a locking element (3) configured for receiving the male portion and a release element (4) for releasing the male or female portion from the locking element by actuating the release element.

Classifications:

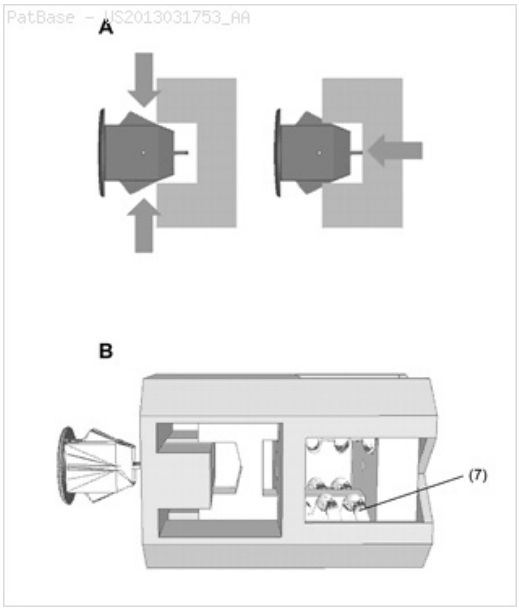
International (IPC 8-9): B23P17/00 B25B27/14 F16B19/00 F16B21/07 F16B21/08 (Advanced/Invention); B23K37/04 B23P9/00 B23Q3/10 (Advanced/Non-invention)

International (IPC 1-7): F16B21/07

CPC: F16B21/073 B23K37/0408 B23P9/00 B23Q3/103 Y10T24/44026 Y10T29/49769 F16B21/07 F16B21/00 F16B21/08 B33Y80/00

European: F16B21/07L

US: 1/1 24/458 29/407.04



Family:

Publication number	Publication date	Application number	Application date
BE1019675 AF	20120904	BE20110000251	20110429
DE602011034782 D1	20170316	DE201160034782T	20110429
DK2564079 T3	20170501	DK20110720059T	20110429
EP2564079 A1	20130306	EP20110720059	20110429
EP2564079 B1	20170201	EP20110720059	20110429
ES2623277 T3	20170710	ES20110720059T	20110429
GB201007257 A0	20100616	GB20100007257	20100429
IN02628MN2012 A	20140214	IN2012MN02628	20121126
JP2013530353 T2	20130725	JP20130506681T	20110429
KR20130132694 A	20131205	KR20127031084	20110429
US2013031753 AA	20130207	US20110639324	20110429
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Priority:

GB20100007257 20100429 EP20110720059 20110429 WO2011EP56865 20110429

Probable Assignee: MATERIALISE NV

Assignee(s): (std)**:** MASSOELS JO ; MAT NV ; MATERIALISE NV

Assignee(s): MATERIALISE N V

Inventor(s): (std)**:** MASSOELS JO

Agent(s): PAEMEN LIESBET RJ; DELTAPATENTS BV; ISERN JORGE; NOGAWA SHINTARO; EIP US LLP; PAEMEN LIESBET RITA JOHANNA ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

265) Family number: 2035792 (US4371118A)

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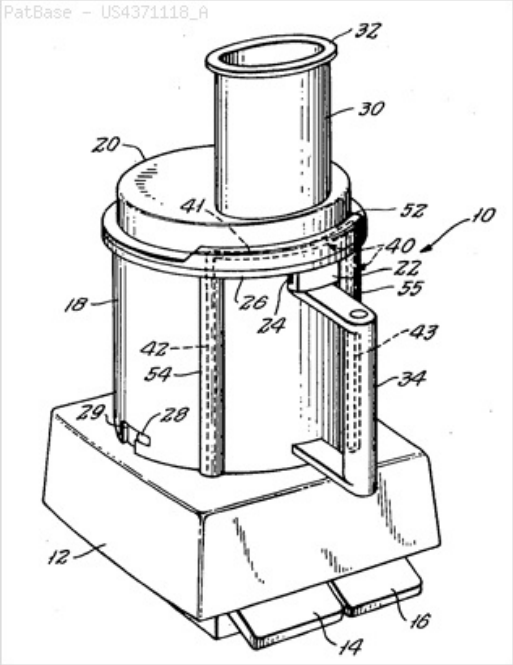
Title: Magnetic safety interlock method and apparatus for food processor

Abstract: Safety interlock method and apparatus employing magnetic effects for food processors having a base enclosing a motor drive, working bowl detachably mountable on the base for receiving various rotatable tools removably installable on drive means in the bowl, with removable cover for the bowl. Such food processors normally include a hopper or feed tube on the cover with manually operated pusher for feeding food items down it to the rotating tool. The safety interlock in one embodiment prevents actuation of the drive to prevent tool rotation unless two conditions are met: (1) the working bowl is in proper position and (2) the cover is in proper position. The safety interlock in another embodiment prevents actuation of the motor drive unless three conditions are met: (1) bowl in proper position, (2) cover in proper position, and (3) food pusher is inserted into the feed tube. If there is a relatively large feed tube, the user is thus prevented by the inserted food pusher from inadvertently inserting a hand or foreign object into it. By virtue of this latter interlock, the feed tube can safely be made of larger cross-sectional area so that larger food items can be inserted whole. Moreover, the entire size of working bowl, cover and feed tube can be proportionately enlarged for providing a larger overall machine. The various interlock systems employ magnetic effects advantageously in ways for increasing discrimination against inadvertent actuation by ordinary magnets.

Classifications:

International (IPC 8-9): A47J19/00 A47J43/046 A47J43/07 B26D7/24 F16P3/10 (Advanced/Invention);
H01H36/00 (Advanced/Non-invention);
A47J43/04 B26D7/00 F16P3/00 (Core/Invention);
H01H36/00 (Core/Non-invention)
International (IPC 1-7): A23N7/10 A47J19/00 A47J43/046 A47J43/07 A47J44/00 B02C18/16 B02C19/12 B02C25/00 F16P3/00 H02H5/00
CPC: A47J43/046 A47J43/0777 A47J43/0794 B26D7/24 F16P3/10 H01H36/0073
European: A47J43/046 A47J43/056C4B A47J43/07S4C2 A47J43/07S4F B26D7/24 F16P3/10 T01H36/00C

US: 241/282.2 241/30 241/37.5 241/92 361/203 D7/384



Family:

Publication number	Publication date	Application number	Application date
CA1170150 A1	19840703	CA19810378079	19810522
DE3121252 A1	19820527	DE19813121252	19810529
FR2483697 A1	19811204	FR19810010937	19810602
FR2483697 B1	19850111	FR19810010937	19810602
GB2083882 A1	19820331	GB19810016670	19810601
GB2083882 B2	19840510	GB19810016670	19810601
US4371118 A	19830201	US19800155200	19800602

Priority:

US19800155200 19800602 CA19810378079 19810522

Probable Assignee: CUISINARTS CORP

Assignee(s): (std)**:** CUISINARTS INC

Assignee(s): FIRST NATIONAL BANK OF BOSTON ; SONTHEIMER CARL G ; PODELL ALLEN F ; CAIR ACQUISITION INC ; CAIR ACQUISITION INC A CORP OF DE ; CUISINARTS ACQUISITION INC ; CUISINARTS ACQUISITION INC A DE CORP ; CUISINARTS CORP

Inventor(s): (std)**:** SONTHEIMER CARL G ; SONTHEIMER CARL ; PODELL ALLEN F ; PODELL ALLEN

Inventor(s): CARL SONTHEIMER ET ALLEN PODELL ; F PODELL ALLEN ; G SONTHEIMER CARL

Agent(s): WESTELL AND HANLEY

266) Family number: 66574793 (US2017225349A)

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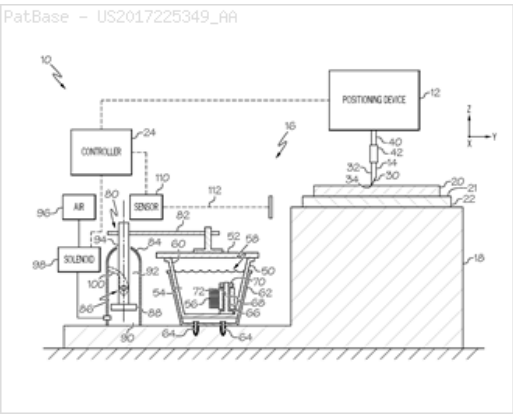
Title: ULTRASONIC CUTTING MACHINE WITH AUTOMATED BLADE CLEANING SYSTEM

Abstract: An ultrasonic cutting machine including a support structure, a positioning device moveable relative to the support structure, a cutting blade connected to the positioning device and a blade cleaning system positioned proximate the support structure, the blade cleaning system including a basin defining an internal volume and an opening into the internal volume, a solvent positioned in the internal volume, a cleaning surface positioned in the internal volume, wherein the cleaning surface is at least partially submerged in the solvent, and a lid positioned over the opening, wherein the lid is automatically displaced from the opening when the cutting blade approximates the basin.

Classifications:

International (IPC 8-9): B08B1/00 B08B1/02 B08B3/08 B08B3/10 B08B3/12 B26D7/00 B26D7/08 (Advanced/Invention); B26D7/00 (Advanced/Non-invention)

CPC: B08B1/002 B08B3/08 B26D2007/0025 B26D7/088 B26D7/086 B26D7/00 B08B1/02 B08B3/10



Family:

Publication number	Publication date	Application number	Application date
CN107030761 A	20170811	CN201710049543	20170123
EP3202545 A1	20170809	EP20160198825	20161115

EP3202545 B1	20180418	EP20160198825	20161115
US2017225349 AA	20170810	US20160016198	20160204

Priority:

US20160016198 20160204

Probable Assignee: BOEING CO

Assignee(s): (std)**:** BOEING CO

Inventor(s): (std)**:** COOPER AMY E ; HALBRITTER ALLEN ; KAUFMAN KEVIN W ; MCDONALD EMILY E ; NIX MEREDITH P

Agent(s): CABINET PLASSERAUD

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

267) Family number: 29527799 (US5537135A)

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Title: METHOD AND APPARATUS FOR MAKING A GRAPHIC PRODUCT

Abstract: A method and apparatus for preparing graphic products utilizes a printer to print on sheet material and a cutter to cut the sheet material with the printed material within the periphery of the cut edges. Both the printer and the cutter are controlled by machine readable data having a common data base so that the printed material and the cut material correspond positionally in the final graphic product. The printer is a thermal printer that places the printed material on a strip of sheet material generally before the sheet material is cut. The thermal printer utilizes a donor web bearing a transfer ink to create enhanced printed images on the sheet material with half tones, color and other attractive features. The printer is controlled to regulate a number of printing parameters through coding on a cassette in which the donor web is supported.

Classifications:

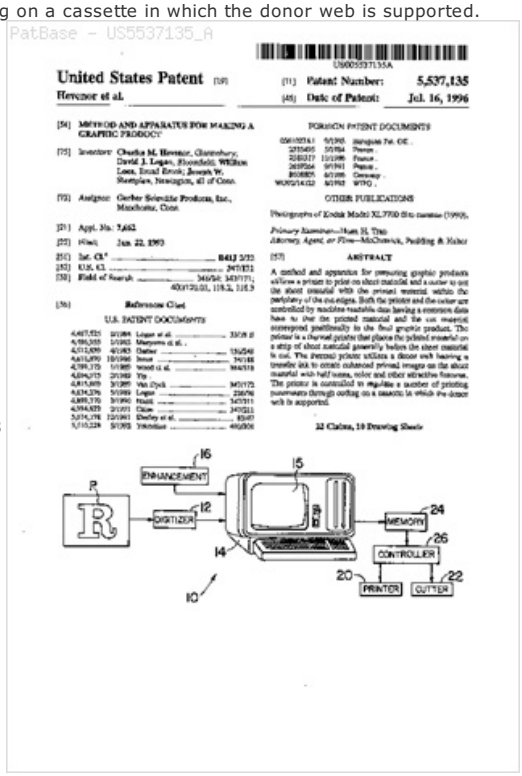
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B26D5/00 B41J11/26 B41J2/485 B41J25/304 B41J3/44 B41J5/30 H04N1/00 (Advanced/Non-invention);
B41J11/42 B41J11/66 B41J17/36 B41J2/325 B41J29/46 B41J35/28 B41M3/00 B41M3/12 B41M5/26 B41M5/34 B41M5/40 G11B15/26 (Core/Invention)

International (IPC 1-7): B26D5/00 B26D5/30 B26D7/27 B26F1/38 B41F1/54 B41F13/34 B41F33/14 B41J11/04 B41J11/20 B41J11/26 B41J11/27 B41J11/28 B41J11/42 B41J17/02 B41J17/32 B41J17/36 B41J2/32 B41J2/325 B41J2/42 B41J2/485 B41J2/525 B41J25/304 B41J25/312 B41J29/38 B41J29/46 B41J3/44 B41J31/00 B41J32/00 B41J33/52 B41J35/28 B41J5/30 B41L39/02 B41L39/14 B41L39/16 B41M B41M3/00 B41M3/12 B41M5/26 B41M5/30 B41M5/34 B41M5/38 B41M5/40 G06K15/22 G11B15/32 H04N1/00

CPC: B41M5/345 B41M5/38264 B41J2/32 B41J11/28 B41J33/52 B26D7/27 B26F1/3806 B41J2/315 B41J2/325 B41J11/00 B41J11/26 B41J11/42 B41J11/66 B41J11/663 B41J11/666 B41J15/06 B41J17/02 B41J17/32 B41J17/36 B41J25/312

European: B26D7/27 B26F1/38A B41J11/00 B41J11/26 B41J11/42 B41J11/66 B41J11/66B B41J11/66P B41J15/06 B41J17/02 B41J17/32 B41J17/36 B41J2/315 B41J2/325 B41J25/312 B41M5/34T B41M5/382L B41M5/38L

US: 101/484 226/86 347/171 347/176 347/198 347/215 347/217 400/208 400/234 400/616.3 400/659 400/662



Family:

Publication number	Publication date	Application number	Application date
AU199352108 A1	19940811	AU19930052108	19931201
AU199511312 A1	19950316	AU19950011312	19950120
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AU658082 B2	19950330	AU19930052108	19931201
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DE9321282 U1	19970130	DE19930021282U	19931129
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JP7009689 A2	19950113	JP19930336792	19931228
SG44419 A1	19971219	SG19960000268	19931129
SG60093 A1	19990222	SG19970002613	19931129
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SG66382 A1	19990720	SG19970002614	19931129
US5537135 A	19960716	US19930007662	19930122
US5537135 C1	20060502	US19930007662	19930122
US5551786 A	19960903	US19950449425	19950524
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US5661515 A	19970826	US19950451005	19950525
US6002416 A	19991214	US19960735923	19961024

Priority:

US19930007662 19930122	CA19932108516 19931015	CA19932240231 19931015
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US19950451005 19950525	US19960735923 19961024	CA19972218943 19971022

Probable Assignee: GERBER SCIENTIFIC INC

Assignee(s): (std)**:** GERBER SCIENTIFIC PRODUCTS INC ; GERBER SCIENT PRODUCTS INC

Assignee(s): GERBER SCIENT PROD INC ; GAABAA SAIENTEIFUITSUKU PURODAKUTSU INC ; GERBER SCIENTIFIC INT ; GERBER COBURN OPTICAL INC ; GERBER SCIENTIFIC INC ; GERBER SCIENTIFIC INT INC ; GERBER SCIENTIFIC INT INC AS SUCCESSOR IN INTERES ; FORTRESS CREDIT CO LLC COLLATERAL AGENT AS ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GERBER DAVID J ; GERBER SCIENTIFIC INT INC (AS SUCCESSOR IN INTEREST TO GERBER TECHNOLOGY INC AND GERBER SCIENTIFIC PRODUCTS INC) ; ABLECO FINANCE LLC AS COLLATERAL AGENT ; ABLECO FINANCE LLC COLLATERAL AGENT AS ; BRANT LISA M ; CITIZENS BANK OF MASSACHUSETTS ; FLEET CAPITAL AGENT AS CORP ; FLEET CAPITAL CORP ; GERBER TECHNOLOGY INC ; GERBER SCIENTIFIC INT INC AS SUCCESSOR IN INTEREST ; GERBER SCIENTIFIC PRODUCTS INC MANCHESTER CONN US ; LOGAN DAVID J ; LOOS WILLIAM A ; STEMPIEN JOSEPH W ; NILAND JAY T ; VOELKER MARTIN C ; HEVENOR CHARLES M ; WEBSTER RONALD B ; GERBER SCIENTIFIC INT INC AS SUCCESSOR IN INTEREST TO GERBER TECHNOLOGY INC AND GERBER SCIENTIFIC PRODUCTS INC

Inventor(s): (std)**:** BRANT LISA M ; CHARLES M HEVENOR ; GERBER DAVID J ; HEVENOR CHARLES M ; JAY T NILAND ; JOSEPH W STEMPIEN ; LISA M BRANT ; LOGAN DAVID J ; LOOS WILLIAM ; LOOS WILLIAM A ; DAVID J LOGAN ; MARTIN C VOELKER ; NILAND JAY T ; RONALD B WEBSTER ; STEMPIEN JOSEPH W ; STEPMIEN JOSEPH W ; VOELKER MARTIN C ; WEBSTER RONALD B ; WILLIAM A LOOS

Inventor(s): UIRIAMU EE RUUSU ; RONARUDO BII UEBUSUTAA ; RISA EMU BURANTO ; DEIBITSUDO JEI ROOGAN ; DEIBITSUDO JIEI ROOGAN ; MAATEIN SHII BUOOKAA ; MAATEIN SHII UOOKAA ; JEI TEII NIIRANDO ; JIEI TEII NIIRANDO ; JIYOSEFU DABURIYUU SUTENPIEN ; JOSEFU DABURYUU SUTENPIEN ; CHIYAARUSU EMU HEBUNAA ; CHAARUSU EMU HEBUNAA

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL; BERESKIN AND PARR; SANFORD TCOLB AND CO

Designated states: DE ES FR GB IT NL

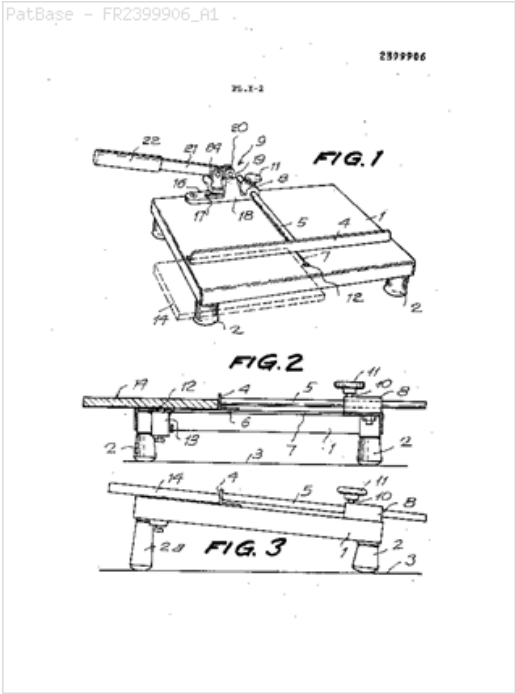
268) Family number: 30897800 (FR2399906A)

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Title: HAND-TOOL FOR CUTTING CERAMIC TILE - HAS WORK TOP WITH CUTTING WHEEL ADJUSTABLE STRAIGHT-EDGE AND LEVER-HAMMER ASSEMBLY WITH RIBBED ANVIL

Abstract: The hand-tool may be used to cut ceramic tiles or glass and comprises a portable work-table (1) with an adjustable straight-edge (4), a cutting wheel (12) and a hand lever (21) for fracturing the scored tile. The straight edge (4) can be moved across the table top (1) guided by a pin in a slot (7), and can be fixed in position with a round coupling bar (5) traversing a fixed sleeve (8) with a radial locking screw (11). Once the straight edge (4) is fixed the piece (14) is scored by sliding it over the table top. During sliding the edge of the tile (14) abuts the straight edge (4) and it is passed over the cutting wheel (12). Once scored the tile (14) is placed on a ridged (17) anvil (16) beneath the lever (21). The ridge (17) is centred on the scored line and the lever (21) is depressed causing a forked block (24) to drop onto the tile (14) and effect fracture.

Classifications:
International (IPC 8-9): B28D1/22 (Advanced/Invention); B28D1/22 (Core/Invention)
International (IPC 1-7): B26D B28D1/20 E04F21/00
CPC: B28D1/225
European: B28D1/22D



Family:

Publication number	Publication date	Application number	Application date
ES230397 U	19771016	ES19770230397U	19770811
ES230397 Y	19780216	ES19770230397U	19770811
FR2399906 A1	19790309	FR19780023361	19780808
PT68413 A	19780901	PT19780068413	19780810

Priority:
ES19770230397U 19770811

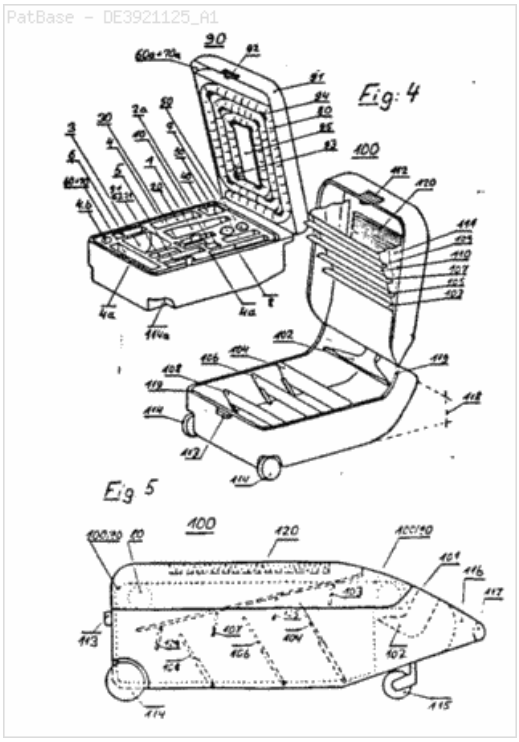
Probable Assignee: BOADA HERMANOS SA
Assignee(s): (std)**:** BOADA HERMANOS SA
Assignee(s): HERMANOS BOADA S A ; HERMANOS BOADA SA

269) Family number: 7958803 (DE3921125A1) © PatBase

Title: Hand tool device with its own drive - has bent spindle to take angle grinder and power driven fan extractor

Abstract: The hand tool device with its own drive has a bent drive spindle on which an angle grinder can be fitted. It has also a dust extractor in the form of a fan driven by the same motor, and an outlet over which the hose of a collecting container is fitted. The radial fan (50) is screwed onto the drive spindle (2) outside the tool (3), and a guard housing (10,20,30,40) is attached to the device encasing the fan (50) completely, and partially encloses the tool. USE/ADVANTAGE - Can also be used for a hand operated circular saw.

Classifications:
International (IPC 8-9): B23D47/12 B23D59/00 B24B55/10 (Advanced/Invention); B23D47/00 B23D59/00 B24B55/00 (Core/Invention)
International (IPC 1-7): B24B23/02 B25F5/00
CPC: B23D47/123 B23D59/006 B24B55/102
European: B23D47/12B B23D59/00C B24B55/10B



Family:

Publication number	Publication date	Application number	Application date
DE3921125 A1	19910110	DE19893921125	19890628

Priority:

DE19893921125 19890628

Probable Assignee: CIOPTIA PETER

Assignee(s): (std)**:** CIOPTIA PETER

Assignee(s): CIOPTIA PETER 5620 VELBERT DE

Inventor(s): (std)**:** CIOPTIA PETER

Inventor(s): CIOPTIA PETER 5620 VELBERT DE

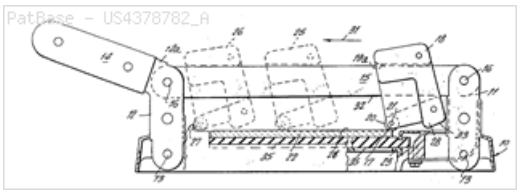
270) Family number: 1972803 (US4378782A)

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Title: CERAMIC TILE CUTTER

Abstract: A tile scoring and fracturing device in which spaced parallel links swingably secured at one end to a base and freely secured at their other ends to the ends of an elongated guide bar to form a rectangular assembly can be shifted to a parallelogram configuration to lower the guide bar toward a tile placed upon the base. A combined tile scoring and fracturing head is slidably carried upon the guide bar. In the rectangular mode the scoring and fracturing head is used to score the tile along a predetermined path. Thereafter, as the links and guide bar are shifted to the parallelogram configuration the tile is fractured by the said head.

Classifications:
International (IPC 8-9): B26D1/00 B28D1/22 (Advanced/Invention); B26D1/00 B28D1/22 (Core/Invention)
International (IPC 1-7): B26B B26D1/00 B26D1/32 B28D1/22 B28D1/24 B28D1/32 E04F21/18 E04F21/20
CPC: Y10T225/325 B28D1/225
European: B28D1/22D
US: 125/23.02 125/23T 225/96.5



Family:

Publication number	Publication date	Application number	Application date
AU198177836 A1	19821104	AU19810077836	19811125
DE3145340 A1	19821125	DE19813145340	19811114
FR2504845 A1	19821105	FR19820006194	19820408
GB2097715 A1	19821110	GB19810034794	19811118
IT1172112 A	19870618	IT19810049792	19811127
IT8149792 A0	19811127	IT19810049792	19811127
JP57182402 A2	19821110	JP19820002191	19820109
KR19830009909 A	19831224	KR19820001903	19820430
KR830009909 A	19831224	KR19820001903	19820430
KR880000314 B1	19880319	KR19820001903	19820430
US4378782 A	19830405	US19810259420	19810501

Priority:

US19810259420 19810501

Probable Assignee: RED DEVIL INC

Assignee(s): (std)**:** RED DEVIL INC ; RETSUDO DEBIRU INC

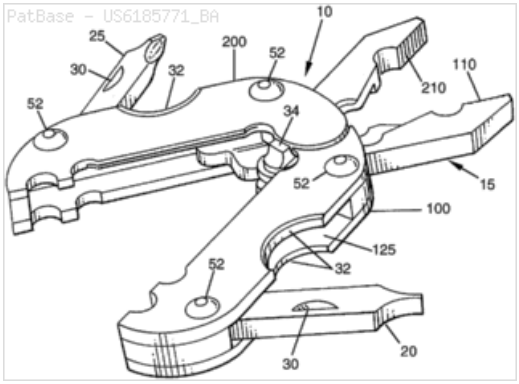
Assignee(s):	CIT GROUP BUSINESS CREDIT INC ; MELLON BANK NA ; PHILADELPHIA NATIONAL BANK INC ; PHILADELPHIA NATIONAL BANK INC CORESTATES BANK N A ; PHILADELPHIA NATIONAL BANK INC CORESTATES BANK N A AS
Inventor(s): (std):	HEINIS ROBERT P ; HEINIS ROBERT PAUL ; HINIS ROBERT P ; RICHARD SCHOTTER D ; RICHIYAADO DEII SHIYOTSUTAA ; ROBAATO BII HEINISU ; SCHOTTER RICHARD D ; SCHOTTER RICHARD DANIEL ; SHOTER RICHARD D ; RICHAADO DEII SHOTSUTAA
Inventor(s):	RICHARD DANIEL SCHOTTER ET ROBERT PAUL HEINIS ; RICHARD DSCHOTTER ; D SCHOTTER RICHARD ; ROBERT P HEINIS ; RICHARD D SCHOTTER ; ROBERT PHEINIS ; P HEINIS ROBERT
Agent(s):	SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

271) Family number: 14958807 (US6185771B)

Title: POCKET TOOL HAVING SLIDABLY EXTENSIBLE PLIERS

Abstract: The present invention relates primarily to a versatile hand-held pocket tool having slidable pivoted jaws that are extensible from within the handle grips. The pivoted jaws are rotatably locked in the extended position thereby preventing the pliers from retracting when being used. When not in use the pliers are retracted into each of the handle grips and rotatably locked, maintaining the jaws in their storage position. Each of the jaws has two cutting surfaces; one notched cutting surface for cutting wire and one shearing surface for wire stripping and the like. Two foldable pivoted screwdrivers comprising a flattened blade type and a Phillips end type are included to provide versatile portable tool operation. The pocket tool can be manufactured using powdered metal technology to reduce the manufacturing cost and to ensure greater uniformity and precision.

Classifications:
International (IPC 8-9): B25F1/00 (Advanced/Invention);
B25F1/00 (Core/Invention)
International (IPC 1-7): B25B7/22
CPC: B25F1/003 B25F1/04
European: B25F1/00B
US: 30/162 7/128 81/416



Family:

Publication number	Publication date	Application number	Application date
US6185771 BA	20010213	US19990455394	19991206

Priority:
US19990455394 19991206

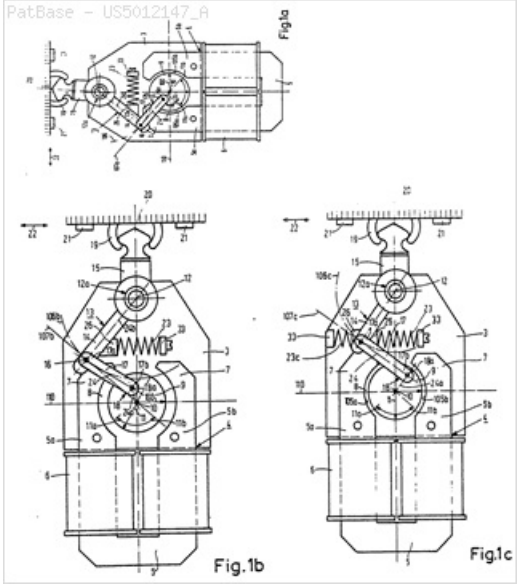
Probable Assignee:	TRUSTY SR JOHN E
Assignee(s): (std):	TRUSTY SR JOHN E
Inventor(s): (std):	TRUSTY SR JOHN E

272) Family number: 3521809 (US5012147A)

Title: DOMESTIC VIBRATION APPARATUS WITH LEVER DRIVE

Abstract: A domestic vibration apparatus, in particular a dry-shaver or hair trimmer, in which rotary movements of a two-pole permanent magnet (9) forming a rotor are converted into vibratory movements of a vibration tool by means of a lever system (13) which preloads the drive in such a way that the rotor (9) can oscillate about a rest position,t he two-pole permanent-magnet rotor (9) without pole-pieces being arranged in the U-shaped stator of a single-phase synchronous motor.

Classifications:
International (IPC 8-9): B26B19/28 H02K33/02
H02K33/06 (Advanced/Invention);
B26B19/00 H02K33/00 (Core/Invention)
International (IPC 1-7): B06B1/04 B20B19/02 B26B19/28 F16D3/00 F16F15/12 H02K33/02 H02K33/06 H02K7/06
CPC: Y10T74/18184 B26B19/282
European: B26B19/28A
US: 30/43.92 310/47 310/80 74/42



Family:

Publication number	Publication date	Application number	Application date
AT95105 E	19931015	AT19890201677T	19890626
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ES2046450 T3	19940201	ES19890201677T	19890626
JP2052691 A2	19900222	JP19890167146	19890630
RU1829992 C	19930723	SU19894614553	19890627
SU1748639 A3	19920715	SU19894614462	19890628
SU1829992 A3	19930723	SU19894614553	19890627
US5012147 A	19910430	US19890373367	19890628

Priority:

DE19883822332 19880701 DE19895005739 19890626 EP19890201677 19890626

Probable Assignee: PHILIPS PATENTVERWALTUNG

Assignee(s): (std)**:** PHILIPS NV ; PHILIPS CORP ; PHILIPS PATENTVERWALTUNG ; PHILIPS LIGHT MFG CO

Assignee(s): PHILIPS GLOEILAMPENFABRIEKEN NV ; US PHILIPS CORP ; US PHILIPS 100 EAST 42ND ST NEW YORK NY 10017 A CO ; US PHILIPS 100 EAST 42ND ST NEW YORK NY 10017 A CORP OF DE CORP ; N V FILIPS GLOELAMPENFABRIKEN ; N V FILIPS GLOELAMPENFABRIKEN FA ; N V PHILIPS GLOEILAMPENFABRIEKEN ; NVFILIPS GLOELAMPENFABRIKEN ; NVFILIPS GLOELAMPENFABRIKEN FIRMA ; PHILIPS GLOEILAMPENFAB NV ; U S PHILIPS CORP ; PHILIPS PATENTVERWALTUNG GMBH ; PHILIPS PATENTVERWALTUNG GMBH 2000 HAMBURG DE ; PHILIPS PATENTVERWALTUNG GMBH 20097 HAMBURG DE

Inventor(s): (std)**:** BERTRAM LEO ; BUKOSCHEK ROMUALD L ; HUGO SCEMMANN ; KHUGO SHEMMANN ; LEANDER BUKOSCHEK ROMUALD ; LEO BERTRAM ; ROMUALD LINDER BUKOSHEK ; SCHEMMANN HUGO ; SCHEMMANN HUGO DR ; SHERMANN KHYUGO ; ROMUARUDO REANDAA BUKOSHIEKU ; REO BERUTORAMU ; HIYUUGO SHIENMAN ; BUKOSHEK ROMUALD LEANDER ; BUKOSCHEK ROMUALD LEANDER

Inventor(s): LEO BERTRAM DE ; KHYUGO SHERMANN DE ; ROMUALD LEANDER BUKOSHEK AT ; SCHEMMANN HUGO DR NL SCHAESBERG NL ; SCEMMANN HUGO ; BUKOSCHEK ROMUALD LEANDER A 9020 KLAGENFURT AT ; BUKOSCHEK ROMUALD LEANDER KLAGENFURT AT ; BERTRAM LEO 5190 STOLBERG DE ; BERTRAM LEO D 5190 STOLBERG DE

Designated states: AT DE ES FR GB IT

273) Family number: 70078816 (WO18104096A1)

© PatBase

Title: CUT-OUT TOOL

Abstract: The invention relates to a cut-out tool (100) for cutting an opening into a housing wall, comprising a cut-out device (105), which is arranged on an end-face section of the cut-out tool (100), and a thread (107) for screwing the cut-out tool (100) into a threaded connecting piece in or on a housing wall in order to introduce an opening into a housing wall.

Classifications:
International (IPC 8-9): B21D28/34 B23B51/04 B26D3/10 B26D5/10 B26D7/00 B26F1/32 B26F1/38 B29C37/00 (Advanced/Invention)
CPC: B26F1/32 B26D5/10 B26D7/0006 B26F1/3846

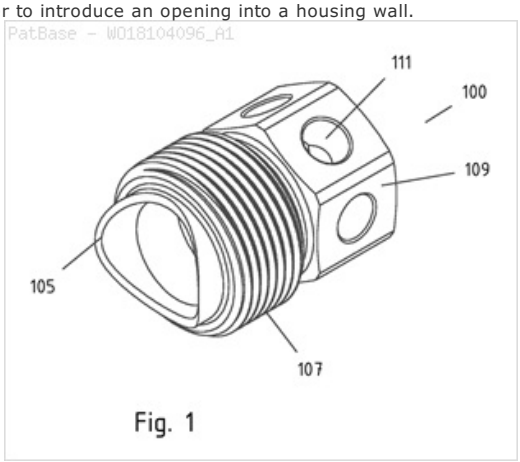


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DE102016123760 A1	20180614	DE201610123760	20161208
WO18104096 A1	20180614	WO2017EP80563	20171127

Priority:

DE201610123760 20161208

Probable Assignee: PHOENIX CONTACT GMBH AND CO

Assignee(s): (std)**:** PHOENIX CONTACT GMBH AND CO ; PHOENIX CONTACT GMBH AND CO KG

Inventor(s): (std)**:** BURY JOACHIM ; SALOMON THOMAS

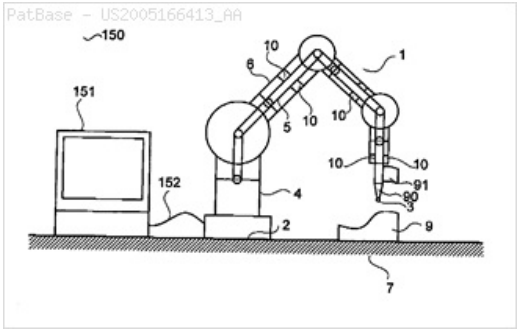
Agent(s): PATENTSHIP PATENTANWALTSGESELLSCHAFT MBH

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC

274) Family number: 28646820 (US2005166413A)

Title: CMM ARM WITH EXOSKELETON

Abstract: Apparatus for a CMM Arm with Exoskeleton is provided comprising an Internal CMM Arm with a base end and a probe end, and an Exoskeleton driving the Internal CMM Arm through a plurality of transmission. One or more contact probes, optical probes and tools are mounted on the probe end. The CMM Arm with Exoskeleton is provided in manually operable and automated embodiments. The CMM Arm with Exoskeleton is operable for accurate measurement or for performing accurate operations. Methods are provided for operation of the CMM Arm with Exoskeleton.



Classifications:
International (IPC 8-9): B23Q17/00 B25J13/08 B25J9/02 B25J9/06 G01B11/00 G01B11/03 G01B21/00 G01B21/04 G01B5/004 G01B5/008 G01B5/012 G01B5/08 G01B7/04 (Advanced/Invention); B25J13/08 B25J9/06 (Advanced/Non-invention); B25J13/08 B25J9/06 G01B11/03 G01B5/004 G01B5/008 G01B5/08 G01B7/02 (Core/Invention)
International (IPC 1-7): B25J13/08 G01B5/004 G01B5/4
CPC: G01B5/004 G01B5/08 G01B7/004 G01B7/008 B25J13/088 G01B5/008 G01B11/03 G05B2219/37274 G05B2219/40305
European: B25J13/08V G01B11/03 G01B5/004 G01B5/008 G01B5/08 G01B7/004 G01B7/008 S05B219/37274 S05B219/40305
US: 33/503 33/503P 33/559 901/14 901/14S

Family:

Publication number	Publication date	Application number	Application date
CA2522097 AA	20051012	CA20042522097	20040426
CA2522097 C	20120925	CA20042522097	20040426
CN101907440 A	20101208	CN201010225081	20040426
CN101907440 B	20130508	CN201010225081	20040426
CN1812868 A	20060802	CN200480018401	20040426
CN1812868 B	20100908	CN200480018401	20040426
EP1633534 A1	20060315	EP20040729470	20040426
EP1633534 B1	20180912	EP20040729470	20040426
GB200309662 A0	20030604	GB20030009662	20030428
GB200312963 A0	20030709	GB20030012963	20030605
GB200327503 A0	20031231	GB20030027503	20031126
GB200405396 A0	20040421	GB20040005396	20040310
GB200523723 A0	20051228	GB20050023723	20040426
GB2417090 A1	20060215	GB20050023723	20040426
IN05442DN2005 A	20091002	IN2005DN05442	20051125
JP2007527323 T2	20070927	JP20060506197T	20040426
JP2012024920 A2	20120209	JP20110168620	20110801
JP4868235 B2	20120201	JP20060506197T	20040426
JP5291158 B2	20130918	JP20110168620	20110801
KR20060015557 A	20060217	KR20057020606	20040426
US2005166413 AA	20050804	US20040988398	20041112
US2008235970 AA	20081002	US20080135621	20080609
US7395606 BB	20080708	US20040988398	20041112
US7591078 BB	20090922	US20080135621	20080609
WO04096502 A1	20041111	WO2004GB01827	20040426

Priority:

GB20030009662 20030428 GB20030012963 20030605 GB20030027503 20031126
GB20040005396 20040310 JP20060506197 20040426 JP20060506197T 20040426
WO2004GB01827 20040426 US20040988398 20041112 US20080135621 20080609

Probable Assignee: NIKON METROLOGY NV

Assignee(s): (std): 3D SCANNERS LTD ; CRAMPTON STEPHEN ; CRAMPTON STEPHEN J ; CRAMPTON STEPHEN JAMES ; JAMES CRAMPTON STEPHEN ; NIKON METROLOGY NV

Assignee(s): 3 D SCANNERS LTD ; 3D SCANNERS LIMITED ; STEPHEN JAMES CRAMPTON

Inventor(s): (std): CRAMPTON STEPHEN J ; CRAMPTON STEPHEN JAMES ; JAMES CRAMPTON STEPHEN

Inventor(s): NIKON METROLOGY NV ; STEPHEN JAMES CRAMPTON ; 3 D SCANNERS LIMITED ; 3 D SCANNERS LTD ; CRAMPTON STEPHEN

Agent(s): PERRY AND CURRIER; GYI JEFFREY IVAN; KATO NOBUAKI; TAKAHASHI SEIICHIRO; OCHI TAKAO; USUI SHINICHI; MATSUI TAKAO; OKABE MASAO; YOSHIZAWA HIROSHI; OKABE YUZURU; BAKER AND BOTTS; BAKER BOTTS LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

275) Family number: 43348820 (US2009139096A)

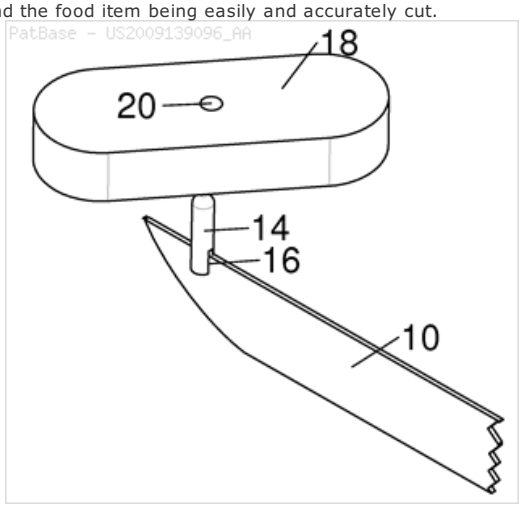
Title: DOUBLE HANDLE KITCHEN KNIFE

Abstract: A double handle knife is described with the secondary handle rotatable upon a pivot post. In further embodiments: the secondary handle is mounted to the top of the blade at a fixed angle of 45 degrees (plus or minus 25) degrees between

the long axis of the secondary handle and the long axis of the knife blade; and attachments are described to convert single handle knifes into double handle knives functioning identical to those described above. A methods is described utilizing the double handle knife invention in any of its embodiments being gripped by the dominant hand on the primary handle, four fingers of the non-dominant hand being placed evenly upon the secondary handle with long axis thereof positioned at an angle of 45 degrees (plus or minus 25) degrees to the long axis of the knife blade, the palm/or thumb of the same hand positioning the food item, both hands applying downward pressure and the food item being easily and accurately cut.

Classifications:

International (IPC 8-9): A23L1/00 A23P1/10 B25G3/00 B26B27/00 B26B29/02 B26B29/06 B26B3/00 B26D1/00 (Advanced/Invention); A23L1/00 A23P1/10 B25G3/00 B26B27/00 B26B29/00 B26B3/00 B26D1/00 (Core/Invention)
CPC: Y10T83/04 B26B29/02 B26B3/00
European: B26B29/02 B26B3/00
US: 30/295 30/295P 30/296.1 30/298 30/312 30/312P 30/312S 30/340 30/340S 426/518 83/13



Family:

Publication number	Publication date	Application number	Application date
CA2706844 AA	20090611	CA20082706844	20081113
US2009139096 AA	20090604	US20080198893	20080827
US2009139097 AA	20090604	US20070949782	20071204
US2009139098 AA	20090604	US20080134208	20080606
US2009142463 AA	20090604	US20080258384	20081024
US2009151172 AA	20090618	US20090389040	20090219
US2009229132 AA	20090917	US20090475606	20090601
US2012066914 AA	20120322	US20110306171	20111129
US7726030 BB	20100601	US20070949782	20071204
US8082669 BB	20111227	US20090475606	20090601
WO09073339 A1	20090611	WO2008US83372	20081113

Priority:

US20070949782 20071204 US20080134208 20080606 US20080198893 20080827
US20080258384 20081024 WO2008US83372 20081113 US20080840137P 20081224
US20090389040 20090219 US20090475606 20090601 US20110306171 20111129

Probable Assignee: HAYES BRIAN WILLIAM

Assignee(s): (std)**:** HAYES BRIAN WILLIAM

Inventor(s): (std)**:** HAYES BRIAN WILLIAM

Agent(s): BRIAN WILLIAM HAYES

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

276) Family number: 47333822 (US2010263218A)

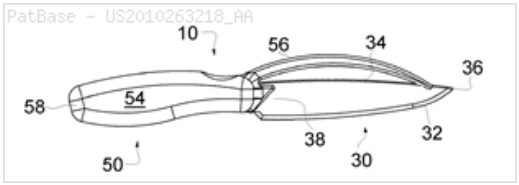
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Title: KNIFE WITH BLADE SPINE SUPPORT AND MAGNETIC KNIFE MOUNTING BLOCK THEREFOR

Abstract: A knife includes a knife blade defining a knife plane having a cutting edge on one side and a spine an opposed side, wherein the cutting edge and the spine meet at a point of the knife blade at a distal end thereof, the knife blade including a bolster at an end of the knife blade opposed from the point and a tang adjacent the bolster, and a handle attached to the tang of the knife blade, the handle includes a body portion, the handle includes a spine support extending along a portion of the spine of the knife blade and coupled to the knife blade at a position spaced from the point, and wherein the spine support is spaced from the spine for at least a portion of the spine. A resilient buffer member may be provided between the knife blade and the handle.

Classifications:

International (IPC 8-9): B26B29/00 B26B3/00 B26B9/02 (Advanced/Invention)
CPC: B26B3/02 B26B9/00 B26B29/02
European: B26B29/02 B26B3/02 B26B9/00
US: 206/372 30/298.4 30/340 30/342 30/355 302/984



Family:

Publication number	Publication date	Application number	Application date
US2010263218 AA	20101021	US20070874453	20071018

Priority:

US20070958393P 20070703 US20070975227P 20070926 US20070874453 20071018

Probable Assignee: BOOKHAMER RYAN SCOTT

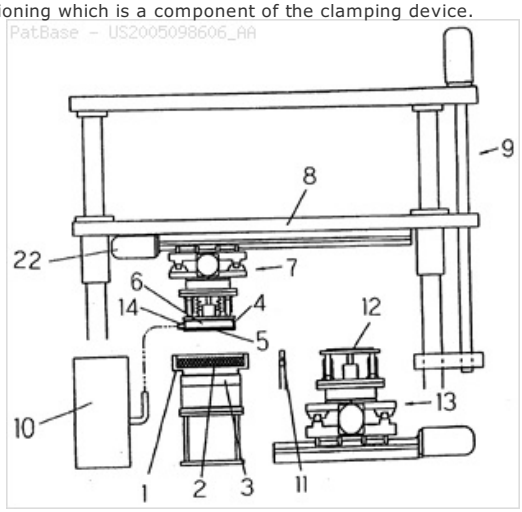
Assignee(s): (std)**:** IND RD LC

Assignee(s): INDUSTRIAL RD LC ; MONROY OSCAR ; BOOKHAMER RYAN SCOTT
Inventor(s): (std): BOOKHAMER RYAN SCOTT
Agent(s): BLYNN L SHIDELER BLK LAW GROUP

277) Family number: 32353831 (US2005098606A)

Title: BALL MOUNTING APPARATUS AND METHOD

Abstract: A ball mounting apparatus for mounting a plurality of balls sucked up to the head on a workpiece. The apparatus includes a positioning mechanism for the workpiece, a ball supply device for supplying the balls, the head for sucking up the balls, an energized force generating device for energizing the head upward, a clamping device for clamping the head in a condition in which this energized force generating device stores the energized force, a moving mechanism for moving the head. The energized force is able to lift the head above a lower positioning which is a component of the clamping device.



Classifications:
International (IPC 8-9): B23K1/00 B23K3/00 B23K3/06 B23K31/02 B25J15/06 B29C43/34 B29C70/46 B29C70/54 B29C70/74 B32B5/22 B32B5/26 B32B5/28 H01L21/48 H01L21/60 H05K3/34 (Advanced/Invention); B29K105/08 (Advanced/Non-invention); B29C43/34 B29C70/00 B29C70/04 B32B5/22 (Core/Invention)
International (IPC 1-7): B23K1/00 B23K3/06 B27N3/10 B29C43/34 B29C70/46 B32B31/04 B32B31/20 B32B5/22 B32B5/28 H01L21/60 H05K3/34
CPC: H01L2924/01004 H01L2924/01047 H01L2924/01082 H01L24/11 B23K3/0623 H01L21/4853 H01L2224/13099 H01L2924/01029 H01L2924/01046 H01L2924/01079 H01L2924/14 H05K3/3478 H05K2203/0292 H05K2203/041 H05K2203/082 H01L2924/01033 H01L2924/01322 H01L2924/01005 H01L2924/01006 H01L2924/014 B29C70/547 Y10T428/25 B32B5/26 B29C70/74 B32B5/12 B32B2038/0076 B32B2262/106 B32B2305/076 B32B2307/724 B32B2605/08 B32B38/08 B32B1/00 B32B5/024 B32B2260/021 B32B2260/046 B29C70/46 B29K2995/002 B29L2031/3005 B32B5/28 B23K2101/40
European: B23K3/06B4 B29C70/46 B29C70/54E2 B29C70/74 B32B5/26 B32B5/28 H01L21/48C4C H01L24/11 H05K3/34F6 L23K201/40 L29K995/00E2 L29L31/30B T01L224/13099 T01L924/01029 T01L924/01046 T01L924/01079 T01L924/14000 T05K203/02M T05K203/04B T05K203/08B T05K3/34F6
US: 228/180.22 228/180.220P 228/246 228/41 228/41P 264/258 264/258P 264/258S 264/316 264/316S 264/324 264/324S 428/323 428/323P

Family:

Publication number	Publication date	Application number	Application date
CA2504072 AA	20051023	CA20052504072	20050413
EP1588838 A1	20051026	EP20050290892	20050422
JP2001068840 A2	20010316	JP20000173195	20000609
JP2005306039 A2	20051104	JP20050126765	20050425
JP4598240 B2	20101215	JP20000173195	20000609
US2005098606 AA	20050512	US20040017247	20041220
US2005236736 AA	20051027	US20040017242	20041220
US2005255311 AA	20051117	US20050107421	20050415
US2006186181 AA	20060824	US20060407536	20060419
US7066377 BB	20060627	US20040017247	20041220
US7077305 BA	20060718	US20000602814	20000623
US7240822 BB	20070710	US20060407536	20060419

Priority:

JP19990178578	19990624	JP20000178578	19990624	JP20000173195	20000609
US20000602814	20000623	US20000602814	20001120	US20040565255	20040423
US20040565255P	20040423	US20040017242	20041220	US20040017247	20041220
CA20052504072	20050413	US20050107421	20050415	US20060407536	20060419

Probable Assignee: ATHLETE CORP FA
Assignee(s): (std): ASC INC ; ASURIITO FA KK ; ATHLETE CORP FA ; FORMELLA STEPHEN C ; FUNDERBURG MICHAEL ; GEORGE RICHARD D ; ROSE BOBBY R
Inventor(s): (std): FORMELLA STEPHEN C ; FUJIMORI YOSHIHARU ; FUNDERBURG MICHAEL ; ROSE BOBBY R ; TAKEUCHI MASAO ; TOMITA CHUJI ; TOMITA TADAHARU ; GEORGE RICHARD D
Inventor(s): ROSE BOBBY ; FORMELLA STEPHEN ; GEORGE RICHARD
Agent(s): BLAKE CASSELS AND GRAYDON LLP; IAT WORLD PATENT LAW FIRM; WATANABE HIDEHARU; HASEGAWA HIROSHI; ISSHIKI AND CO; HOGAN AND HARTSON LLP; HARNESS DICKEY AND PIERCE PLC
Designated states: DE FR GB IT SE

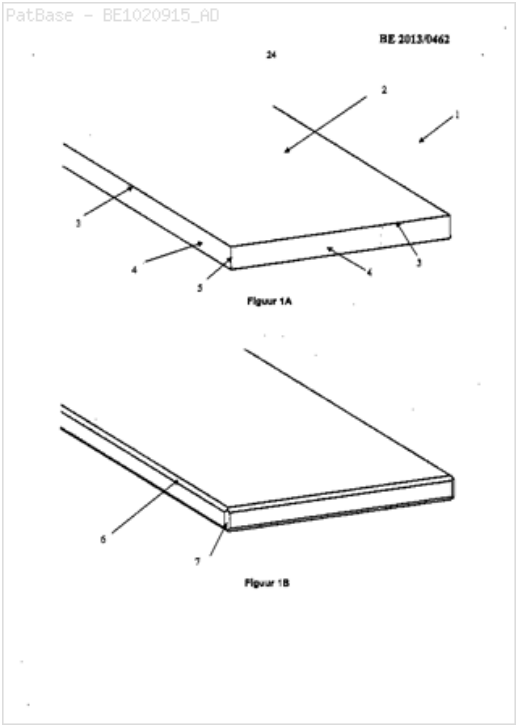
278) Family number: 57483836 (BE1020915A)

Title: METHODE EN INSTALLATIE VOOR HET AFSCHUINEN VAN HOEKEN. METHOD AND SYSTEM FOR CHAMFERING CORNERS. (Machine translation)

Abstract: Source: BE1020915A [NL] 1. Methode voor het afschuinen van een opstaande hoekrand 5 van een plaatvormig artikel 1 middels een installatie omvattende: een slijpstation 8 met minstens twee in lijn opgestelde roterende schuurmedia 10 welke een voedingsrichting F, nagenoeg evenwijdig met de centerlijn 11 van de in lijn opgestelde schuurmedia 10, en een rotatieas R, nagenoeg orthogonaal met het oppervlak van de schuurmedia 10, definieren waarbij F en R nagenoeg orthogonaal zijn; en een manipulator 13 die het artikel 1 hanteert; de methode omvattende het in contact brengen van de opstaande hoekrand 5 met het oppervlak van een schuurmedium 10; waarbij de orientatie van de opstaande hoekrand 5 nagenoeg evenwijdig is met een as N welke nagenoeg orthogonaal is met F en R

Machine translation: 1. Method for chamfering an upright corner edge 5 of a plate-shaped article 1 by means of an installation comprising: a grinding station 8 with at least two in-line arranged rotary abrasive media 10 which has a feed direction F, substantially parallel to the center line 11 of the grinding media, drawn up in line 10, and a rotation axis R substantially orthogonal to the surface of the abrasive media 10, defining where F and R are substantially orthogonal; and a manipulator 13 which uses the Article 1; the method comprising bringing into contact of the upright corner edge 5 with the surface of an abrasive medium 10; wherein the orientation of the upright corner edge 5 is substantially parallel with an axis which is substantially orthogonal to N F, and R

Classifications:
International (IPC 1-7): B24B27/00 B24B9/06 B25J11/00 B25J9/00
CPC: B24B27/0076 B25J11/0065 B24B9/06 B25J15/0052 B25J15/0616



Family:

Publication number	Publication date	Application number	Application date
BE1020915 AD	20140902	BE20130000462	20130702

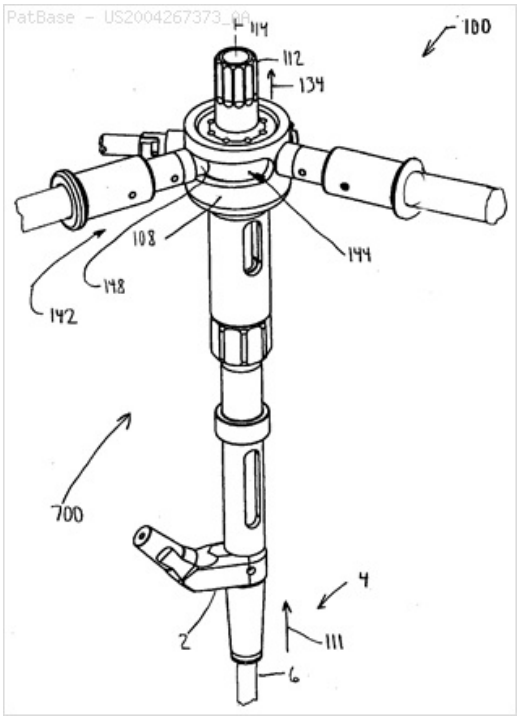
Priority:
BE20130000462 20130702

Probable Assignee: OPTIDRIVE NV
Assignee(s): (std)**:** OPTIDRIVE NV
Inventor(s): (std)**:** DEGEZELLE PASCAL ; DEQUEKER RAFAEL ; VAN ELSACKER JAN

279) Family number: 31429837 (US2004267373A)

Title: ASSEMBLY TOOL FOR MODULAR IMPLANTS AND ASSOCIATED METHOD

Abstract: An assembly tool (1) for assembly of a first component (2) of a prosthesis (4) to a second component (6) of the prosthesis (4) for use in joint arthroplasty is provided. The tool (1) includes a first member (8) operably associated with the first component (2). The first member (8) defines a first member longitudinal axis (10) of the first member (8). The tool also includes a second member (12) operably associated with the second component (6). The second member (12) defines a second member longitudinal axis (14) of the second member (12). The second member (12) is adapted to provide relative motion of the second member (12) with respect to the first member (8) when the second member (12) is rotated relative to the first member (8) about the second member longitudinal axis (14).
Classifications:
International (IPC 8-9): A61B17/16 A61B17/56 A61B17/58 A61B17/60 A61B17/88 A61F17/60 A61F2/00 A61F2/30 A61F2/32 A61F2/36 A61F2/46 A61F2/48 A61F2/76
B25B27/14 (Advanced/Invention);
A61B17/16 A61F2/00 A61F2/30 (Advanced/Non-invention);
A61B17/16 A61B17/56 A61B17/58 A61B17/60 A61F2/00 A61F2/30 A61F2/32 A61F2/36 A61F2/46 A61F2/48 A61F2/50
B25B27/14 (Core/Invention);
A61F2/00 A61F2/30 (Core/Non-invention)
International (IPC 1-7): A61F2/32 A61F2/36 A61F2/46
CPC: A61F2002/30535 A61F2250/0058 A61F2/4637 A61B17/1617 A61B17/164 A61B17/1668 A61F2/36 A61F2/367 A61F2/3676 A61F2002/30332 A61F2002/30438 A61F2002/30604 A61F2002/30738 A61F2002/30827 A61F2002/30886 A61F2002/3611 A61F2002/3625 A61F2002/365 A61F2002/3674 A61F2002/3686 A61F2002/4629 A61F2002/4642 A61F2220/0033 A61F2220/0041 A61F2002/4638
European: A61B17/16J A61F2/36 A61F2/46F K61B17/16D2B K61B17/16S2F K61F2/00T1C K61F2/00T7N K61F2/30A3T1C K61F2/30A3T7N K61F2/30A3W32 K61F2/30B6S K61F2/30L2G9 K61F2/30L2S4 K61F2/36C1 K61F2/36C2 K61F2/36C4 K61F2/36D4 K61F2/36D5C K61F2/36D6 K61F2/36D8B K61F2/46B44 K61F2/46F33 K61F220/00T1 K61F220/00T7
US: 1/1 29/281.5 29/281.500P 606/102 606/102P 606/99 606/99P 606/99S 623/22.12 623/22.120P 623/22.42 623/22.420S



Family:

Publication number	Publication date	Application number	Application date
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CN101273925 B	20111214	CN200710185735	20070929
EP1905396 A1	20080402	EP20070253849	20070927
JP2008086773 A2	20080417	JP20070254241	20070928
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US2004267373 AA	20041230	US20030606401	20030625
US2005033444 AA	20050210	US20040878292	20040628
US2007123908 AA	20070531	US20060541184	20060929
US2008091212 AA	20080417	US20070977138	20071023
US2009307887 AA	20091217	US20090548037	20090826
US2015164658 AA	20150618	US20150608475	20150129
US7297166 BB	20071120	US20030606401	20030625
US7582092 BB	20090901	US20040878292	20040628
US8419799 BB	20130416	US20070977138	20071023
US8685036 BB	20140401	US20090548037	20090826
US8998919 BB	20150407	US20060541184	20060929
US9381097 BB	20160705	US20150608475	20150129

Priority:

US20030606401 20030625 US20040878292 20040628 US20060541184 20060929
US20070977138 20071023 US20090548037 20090826 US20150608475 20150129

Probable Assignee: DEPUY SYNTHES PRODUCTS LLC

Assignee(s): (std)**:** DANIELS DAVID W ; DANIELS DAVID WAYNE ; DEPUY PRODUCTS INC ; DEPUY SYNTHES PRODUCTS INC ; DWYER KIMBERLY ANN ; PARKER BRAD ALAN ; JONES MICHAEL C ; DEPUY SYNTHES PRODUCTS LLC ; EMENHISER JOHN D

Assignee(s): HAND INNOVATIONS LLC ; DEPUY SPINE LLC

Inventor(s): (std)**:** DANIELS DAVID W ; DANIELS DAVID WAYNE ; DWYER KIMBERLY A ; DWYER KIMBERLY ANN ; EMENHISER JOHN D ; JONES MICHAEL ; JONES MICHAEL C ; PARKER BRAD A ; PARKER BRAD ALAN

Inventor(s): MICHAEL C JONES ; JOHN D EMENHISER ; DAVID W DANIELS ; DANIELS DAVID ; PARKER BRAD ; EMENHISER JOHN ; DWYER KIMBERLY

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; BELCHER SIMON JAMES; PHILIP S JOHNSON JOHNSON AND JOHNSON; MAGINOT MOORE AND BECK LLP, CHASE TOWER; MAGINOT MOORE AND BECK LLP CHASE TOWER; MAGINOT MOORE AND BECK; MAGINOT MOORE AND BECK LLP; MAGINOT MOORE AND BECK LLC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

280) Family number: 42649837 (US2009000038A)

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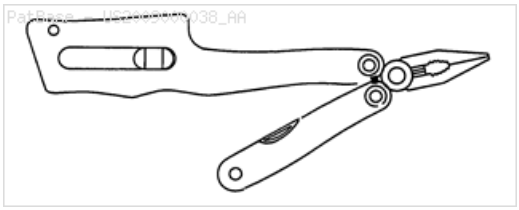
Title: PLIER TOOL COMBINATION

Abstract: A foldable plier combination tool comprises a foldable plier having a working head portion and a handle portion having a pair of arms which are operable to manipulate the working head portion to open and close. At least one of the arms is pivotably connected to the foldable plier so as to move between an extended position where the plier is unfolded and a retracted position where the plier is folded. The arm receives at least a part of the working head portion when in the retracted position. The combination also includes an associated tool for connection to the foldable plier.

Classifications:

International (IPC 8-9): B25B7/22 (Advanced/Invention); B25B7/00 (Core/Invention)

CPC: B25F1/04 B25F1/003 B25F1/006
European: B25F1/00B B25F1/00C
US: 7/128 7/128P



Family:

Publication number	Publication date	Application number	Application date
US2009000038 AA	20090101	US20080156207	20080530
WO08150497 A1	20081211	WO2008US06919	20080530

Priority:

US20070932500P 20070531 US20070964616P 20070814 US20080156207 20080530

Probable Assignee: SOG SPECIALTY KNIVES AND TOOLS LLC

Assignee(s): (std): PADDEN STEPHEN J

Assignee(s): PNC BANK NATIONAL ASSOCIATION ; SOG SPECIALTY KNIVES AND TOOLS LLC ; GLADSTONE INVESTMENT CORP

Inventor(s): (std): PADDEN STEPHEN J

Agent(s): COLIN P ABRAHAMS; ABRAHAMS COLIN P

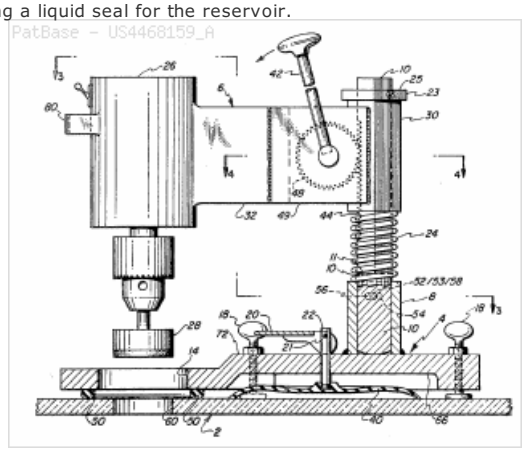
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

281) Family number: 4473839 (US4468159A)

Title: DRILL PRESS AND STAND

Abstract: A drill press and stand providing an improved apparatus for cutting holes in plate vitreous material. The drill press includes a drill motor, a drill tool attached to the drill motor for cutting through the work piece, and a motor support interconnecting to and supporting the drill motor on the stand. The stand includes a base which is attachable to the work surface by a large suction cup which is attached to the lower surface of the stand base. The stand also includes a collar integral to and generally perpendicular to the upper surface of the base into which a mating drill press standard, a part of the motor support may be inserted. The motor support also includes a positioning mechanism for longitudinally moving the drill motor along the standard and may include a biasing spring to counteract the weight of the motor, etc. The standard, along with the attached drill motor, may be pivoted about its longitudinal axis within the mating collar to allow drilling two holes at fixed distances apart through the work surface without repositioning the stand. The base includes a cutting coolant reservoir drill tool access hole which traps coolant inserted therein atop the work surface and around the hole cutting tool. A resilient coolant retaining ring fixed to the lower surface of the base just outside the perimeter of the tool access hole presses against the work surface as the stand is attached to the work surface, forming a liquid seal for the reservoir.

Classifications:
International (IPC 8-9): B23B45/14 B23Q11/10 B25H1/00 B28D1/04 (Advanced/Invention);
B23B45/00 B23Q11/10 B25H1/00 B28D1/02 (Core/Invention)
International (IPC 1-7): B23B39/14 B23B41/00
CPC: B28D1/041 B23Q11/1007 B25H1/0064 Y10T408/44 Y10T408/554 Y10T408/5653 Y10T408/93
European: B23Q11/10C B25H1/00C4B B28D1/04A
US: 125/20 408/112 408/236 408/56 408/76 D15/132



Family:

Publication number	Publication date	Application number	Application date
US4468159 A	19840828	US19810327763	19811207

Priority:

US19810327763 19811207

Probable Assignee: OSTER STANLEY M

Assignee(s): (std): OSTER STANLEY M

Inventor(s): (std): OSTER STANLEY M

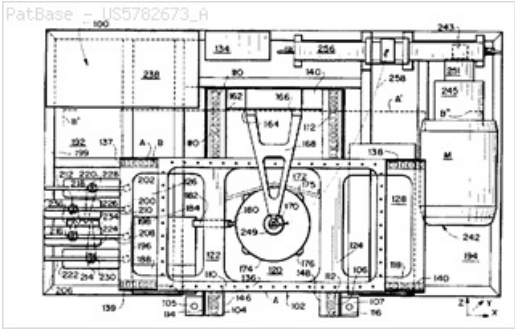
282) Family number: 12317841 (US5782673A)

Title: FLUID JET CUTTING AND SHAPING SYSTEM AND METHOD OF USING

Abstract: Fluid jet cutting system having an X-Y axis support table adjustable in both the X and Y-axis direction and frame structures that overhang a support platform assembly. The frame structures include overlapping central openings positioned above an opening defined by the platform assembly. A driving system such as a linear motor system shifts the support table.

A Z-axis holder is provided for supporting a nozzle head assembly in a central area of the opening defined by the platform assembly. The nozzle head assembly has a main body fixed in position or limited to Z-axis movement with or without fourth and fifth axis rotation capability (i.e., the nozzle head assembly is precluded from movement linearly in the X and Y-axis directions). Workpieces are supported by rails or the like within the open area. The nozzle head assembly directly receives abrasive though a plurality of abrasive ports which receive branch tubes of a multi-branch abrasive feed assembly. The fluid jet energy is conserved by the abrasive flow arrangement, the avoidance of lengthy tubing, the providing of uninterrupted high pressure fluid conduits, and a gas forced abrasive particle stream when particles are utilized. Avoiding the nozzle head assembly shift along an X-Y plane allows for a stationary catcher tank which can be rolled into and out of position on a roller carriage. The system includes a filter internally positioned within an attenuator and bellville seal/return members provided in respective chambers of a dual action intensifier.

Classifications:
International (IPC 8-9): B24C1/04 B24C3/18 B24C5/04 B24C7/00 B24C9/00 B26F1/38 B26F3/00 (Advanced/Invention)
International (IPC 1-7): B24C3/00 B24C5/04
CPC: Y02P70/179 B24C7/0076 B24C1/045 B24C3/18 B24C5/02 B24C5/04 B24C7/0084 B24C9/006 B26F1/3813 B26F3/004 B26F3/008
European: B24C1/04B B24C3/18 B24C5/02 B24C5/04 B24C7/00C3 B24C7/00E B24C9/00C B26F1/38A2 B26F3/00C B26F3/00C2
US: 239/430 239/433 451/101 451/102 451/2 451/36 451/364 451/38 451/41 451/75 451/99



Family:

Publication number	Publication date	Application number	Application date
AU199740900 A1	19980319	AU19970040900	19970826
US5782673 A	19980721	US19960703462	19960827
US5908349 A	19990601	US19970881198	19970624
US6077152 A	20000620	US19980083030	19980522
WO9808653 A1	19980305	WO1997US14991	19970826

Priority:

US19960703462 19960827 US19970881198 19970624 WO1997US14991 19970826 US19980083030 19980522

Probable Assignee: WAREHIME KEVIN S

Assignee(s): (std): WAREHIME KEVIN S

Assignee(s): KEVIN S WAREHIME

Inventor(s): (std): WAREHIME KEVIN S

Inventor(s): KEVIN S WAREHIME

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

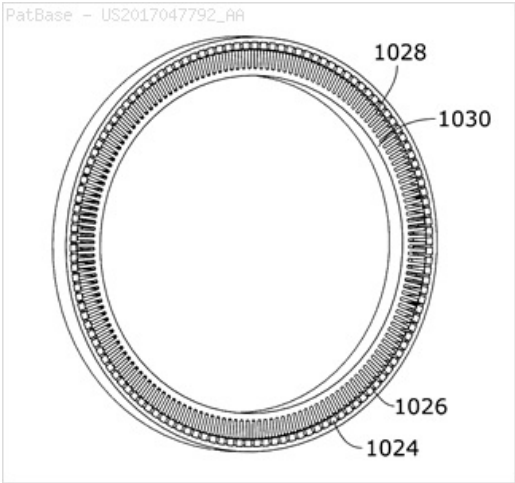
283) Family number: 64905842 (US2017047792A)

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Title: ELECTRIC MACHINE

Abstract: An electric machine comprise a first carrier having an array of electromagnetic elements and a second carrier having electromagnetic elements defining magnetic poles, the second carrier being arranged to move relative to the first carrier. An airgap is provided between the first carrier and the second carrier. The electromagnetic elements of the first carrier include posts, with slots between the posts, one or more electric conductors in each slot, the posts of the first carrier having a post height in mm. The first carrier and the second carrier together define a size of the electric machine. The magnetic poles having a pole pitch in mm. The size of the motor, pole pitch and post height are selected to fall within a region in a space defined by size, pole pitch and post height that provides a benefit in terms of force or torque per weight per excitation level.

Classifications:
International (IPC 8-9): B25J15/08 B25J17/00 B25J19/02 B25J9/10 B25J9/12 B25J9/18 F16C17/04 F16C17/10 F16C19/10 F16C19/18 F16C19/49 F16C19/54 F16C32/00 F16C32/04 F16C35/06 F16C35/067 H02K1/00 H02K1/02 H02K1/06 H02K1/08 H02K1/14 H02K1/16 H02K1/20 H02K1/22 H02K1/24 H02K1/27 H02K1/28 H02K1/30 H02K15/00 H02K15/02 H02K15/04 H02K15/16 H02K16/00 H02K16/02 H02K16/04 H02K21/00 H02K21/02 H02K21/14 H02K21/24 H02K3/00 H02K3/02 H02K3/04 H02K3/12 H02K41/02 H02K41/03 H02K5/04 H02K5/16 H02K5/18 H02K7/08 H02K7/14 H02K9/00 H02K9/02 (Advanced/Invention);
H02K1/27 H02K3/04 (Advanced/Non-invention)
International (IPC 1-7): B25J19/02 B25J9/18 H02K1/02 H02K1/06 H02K1/30 H02K16/04 H02K3/02 H02K7/08 H02K9/00
CPC: H02K1/06 H02K9/005 H02K3/04 H02K5/04 H02K1/02 H02K21/24 B25J9/12 H02K2213/03 H02K1/14 H02K1/274 H02K1/2793 H02K3/12 H02K5/16 H02K9/02 H02K15/04 H02K41/031 H02K21/00 B25J15/08 B25J17/00 H02K1/27 B25J9/126 B25J9/108 H02K7/086 H02K7/14 B25J9/0009 B25J15/0009 B25J15/0233 B25J19/0029 H02K1/08 H02K1/278 H02K1/32 H02K3/24 H02K3/26 H02K5/18 H02K9/19 H02K16/04 H02K19/10 H02K21/14 H02K21/22 H02K2201/12 H02K1/146 F16C19/10 H02K7/088 F16C19/188 H02K16/02 F16C19/49 F16C19/545 F16C35/061 F16C35/067 F16C2322/59 F16C2380/26 H02K7/08 H02K15/16 H02K1/16 H02K1/20 H02K1/24 H02K2201/03 H02K1/276 H02K1/28
US: 310/52 310/64



Family:

Publication number	Publication date	Application number	Application date
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CA3020654 AA	20181011	CA20173020654	20170413
CA3020656 AA	20181011	CA20173020656	20170413
CA3030064 AA	20190107	CA20173030064	20170714
CA3030311 AA	20190108	CA20173030311	20170714
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CN109155568 A	20190104	CN201780029653	20170413
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CN109478806 A	20190315	CN201780044427	20170714
CN109565188 A	20190402	CN201780049743	20170714
CN109690911 A	20190426	CN201780055379	20170811
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ID201807827 A	20180727	ID2018P0001019	20160811
IN201847008905 A	20180323	IN201847008905	20180312
JP2018529302 T2	20181004	JP20180507606T	20160811
KR20180093872 A	20180822	KR20187007025	20160811
KR20190005161 A	20190115	KR20187032027	20170413
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KR20190029668 A	20190320	KR20197004380	20170714
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MX2018001782 A1	20180801	MX20180001782	20160811
US2017047792 AA	20170216	US20160234961	20160811
US2017047793 AA	20170216	US20160235091	20160811
US2017047794 AA	20170216	US20160235095	20160811
US2017047795 AA	20170216	US20160291808	20161012
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US2017047821 AA	20170216	US20160235097	20160811
US2017126079 AA	20170504	US20160291867	20161012
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US2017187254 AA	20170629	US20160235088	20160811
US2017338705 AA	20171123	US20170487411	20170413
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US9755463 BB	20170905	US20160234961	20160811
US10075030 BB	20180911	US20160235036	20160811
WO17024409 A1	20170216	WO2016CA50947	20160811
WO17024409 A9	20170316	WO2016CA50947	20160811
WO17177341 A1	20171019	WO2017CA50470	20170413
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WO18010030 A1	20180118	WO2017CA50856	20170714
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WO18010032 A1	20180118	WO2017CA50858	20170714
WO18027330 A1	20180215	WO2017CA50957	20170811
WO18148842 A1	20180823	WO2018CA50181	20180216

Priority:

US20150203903P 20150811 US20150209333P 20150824 US20160292860P 20160208
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Probable Assignee: GENESIS ROBOTICS AND MOTION TECHNOLOGIES CANADA ULC

Assignee(s): (std)**:** GENESIS ROBOTICS AND MOTION TECH CANADA ULC ; GENESIS ROBOTICS LLP ; GENESIS ROBOTICS LLC

Assignee(s): KLASSEN JAMES BRENT ; KOCH CANADA ACTUATION TECHNOLOGIES ULC ; GENESIS ROBOTICS AND MOTION TECHNOLOGIES CANADA ULC ; SPASOV DAMIAN ; POPE BRADLEY CHRISTOPHER ; CHAMBERLAIN STEPHEN SMITH ; GENESIS ADVANCED TECHNOLOGY INC ; GENESIS ADVANCED TECHONOLGY INC

Inventor(s): (std)**:** KLASSEN JAMES BRENT ; CHAMBERLAIN STEPHEN SMITH ; POPE BRADLEY CHRISTOPHER ; SPASOV DAMIAN ; CHAMBERLAIN STEPHEN ; KUM KA HIM ; JAMES BRENT KLASSEN ; STEPHEN SMITH CHAMBERLAIN

Agent(s): COTTERS PATENT AND TRADE MARK ATTORNEYS; PHILLIPS ORMONDE FITZPATRICK; LAMBERT ANTHONY R; LAMBERT INTELLECTUAL PROPERTY LAW; RANKIN DOUGLAS; THOMPSON ANDREW JOHN; EDI YANI SH MH; ITOH TADASHIGE; ITOH TADAHIKO; OHNUKI SHINSUKE; DESHIMARU TAKESHI; MATSUSHITA MITSURU; KURASAWA ICHIRO; DENTONS US LLP; ERIC L

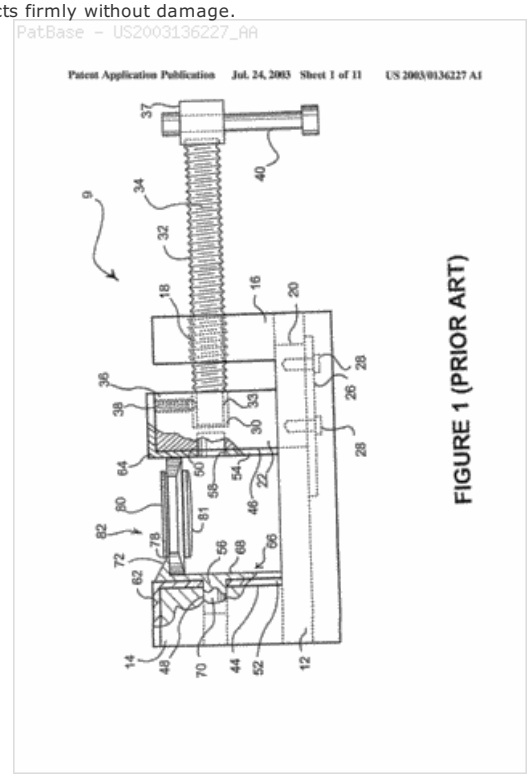
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284) Family number: 28845844 (US2003136227A)

Title: VISE SYSTEM WITH ARTICLE ENGAGING JAW ACCESSORIES

Abstract: A portable vise system is provided to assist in performing various watch repair and maintenance functions and includes a pair of jaws having generally planar and parallel opposing surfaces. The vise can be positioned in a portable nonskid base. The jaws are supported for guided relative movement toward and away from each other along a path disposed substantially normal to the opposing surfaces thereof, one jaw being fixed and the other movable via screw means. The jaws include cylindrical recesses opening outwardly of the opposing surfaces and disposed substantially normal thereto. The opposing jaw surfaces can have relatively thick panel member accessories secured thereto constructed of shape conforming, deformably resilient material and the panel members include substantially circular openings therein substantially coaxial with and of approximately the same diameter as the recesses. A watch case may be clamped between the jaws with eight spaced surface areas of diametrically opposite portions of the watch case engaged by correspondingly spaced portions of marginal portions of the deformable panel members defining the aforementioned circular openings. The relative thickness and physical properties of the panel materials permit gripping even delicate objects firmly without damage.

Classifications:
International (IPC 8-9): B25B1/24 G04D1/02 G04D1/10 (Advanced/Invention); B25B1/00 G04D1/00 (Core/Invention)
International (IPC 1-7): G04D3/00
CPC: B25B1/2405 B25B1/2452 B25B1/2457 G04D1/02 G04D1/10
European: B25B1/24B B25B1/24B4 B25B1/24B5 G04D1/02 G04D1/10
US: 269/283 81/6



Family:

Publication number	Publication date	Application number	Application date
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US6640666 BB	20031104	US20020051800	20020118

Priority:
US20020051800 20020118

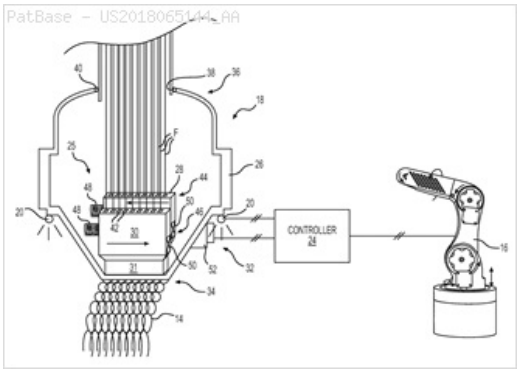
Probable Assignee: PLILEY LARRY E
Assignee(s): (std): PLILEY LARRY E
Inventor(s): (std): PLILEY LARRY E

285) Family number: 68797848 (US2018065144A)

Title: ADDITIVE MANUFACTURING SYSTEM HAVING IN-HEAD FIBER WEAVING

Abstract: A system is disclosed for use in additively manufacturing a composite structure. The system may include a head configured to discharge a composite material including a matrix and a plurality of continuous reinforcements. The system may also include a weave mechanism configured to selectively adjust a pattern of weaving of the plurality of continuous reinforcements occurring inside of the head.

Classifications:
International (IPC 8-9): B05C5/00 B05C5/02 B05D1/26 B22F3/00 B22F3/10 B22F3/105 B22F3/11 B23K26/38 B23K26/402 B26D5/12 B26D7/08 B26D7/26 B28B17/00 B29B15/12 B29B15/14 B29C31/04 B29C35/02 B29C35/04 B29C35/08 B29C35/10 B29C37/00 B29C41/08 B29C43/02 B29C43/22 B29C47/00 B29C47/04 B29C47/12 B29C47/14 B29C47/24 B29C47/32 B29C48/00 B29C48/16 B29C48/30 B29C48/33 B29C64/00 B29C64/10 B29C64/106 B29C64/112 B29C64/118 B29C64/124 B29C64/129 B29C64/135 B29C64/141 B29C64/165 B29C64/171 B29C64/188 B29C64/20 B29C64/205 B29C64/209 B29C64/214 B29C64/218 B29C64/227 B29C64/232 B29C64/236 B29C64/241 B29C64/245 B29C64/25 B29C64/255 B29C64/264 B29C64/268 B29C64/291 B29C64/295 B29C64/30 B29C64/307 B29C64/321 B29C64/336 B29C64/371 B29C64/379 B29C64/386 B29C64/393 B29C64/40 B29C67/00 B29C67/06 B29C69/00 B29C70/00 B29C70/06 B29C70/08 B29C70/16 B29C70/20 B29C70/38 B29C70/52 B29C70/64 B29C70/70 B29C73/22 B29K105/08 B29K307/04 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/00 B33Y50/02 B33Y70/00 B33Y80/00 B33Y99/00 B41J2/22 C01B32/194 C22C32/00 G05B19/045 G05B19/402 G05B19/4099 G05B19/418 G06N99/00 H05B3/28 (Advanced/Invention);



B23K103/00 B29B15/12 B29C64/35 B29K105/08 B29K307/04 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/02 B33Y80/00 G05B19/4099 (Advanced/Non-invention)
CPC: B05D1/26 D03D41/00 B05C5/027 B05C5/001 B29C64/118 B29C64/321 B29C67/00 B29K2105/08 B29K2105/0058 G05B19/045 G05B19/41875 G05B19/402 G05B2219/2646 G06N99/00 G05B2219/49023 B29C2035/0827 D03D15/12 B29C64/188 B29C64/393 B29C64/291 B29C64/379 B29C64/307 B29C64/259 B29C64/141 B29C64/336 B29C64/295 B29C64/40 B29C64/227 B29C70/384 B33Y40/00 B29C64/20 B29B15/122 B29C70/524 B29C64/106 B29C64/386 B29C64/209 B22F3/1118 B22F3/1035 B29C64/218 B29C64/135 B29C64/371 B29C64/268 B26D7/086 B23K26/38 B23K26/402 B29C64/232 B29C64/214 B29C31/042 B29C35/0261 B29C2035/0855 B29K2105/101 B29C64/35 B23K2103/38 B23K2101/38 B29C64/241 B29C70/207 B29C64/236 C01B32/194 H05B3/286 B29K2101/10 B29K2995/0007 B29L2031/753 B29L2031/779 H05B2203/011 H05B2203/014 B23K26/0876 B23K26/342 B23K37/0235 B29C64/00 B29C64/124 B29C64/129 B29C70/24 B33Y70/00 B29C70/38 G05B19/4099 B33Y80/00 B33Y50/02 B29C70/885 B22F3/008 B29C70/523 B29C64/255 B29K2105/251 B29B15/14 B29C48/154 B29C48/2556 B29C48/266 B29C48/30 B29C48/301 B29C48/304 B29C64/165 B29C48/08 B29C48/305 B29C48/35 B29C64/264 B29C64/245 B29C70/06 B33Y10/00 B33Y30/00 B29C64/112 B25J11/0075 B29C48/15 B29C70/50 B29C70/382 F16L9/128 B29C35/0805 B29C2035/0833 B29C2035/0838 B29C2035/0877 B22F7/06 B22F2999/00
US: 264/171.1 264/401 264/494 425/174 700/118

Family:

Publication number	Publication date	Application number	Application date
AU2017324066 AA	20180315	AU20170324066	20170707
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Priority:

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Probable Assignee: CC3D LLC

Assignee(s): (std): CC 3D LLC ; CC2D LLC ; CC3D LLC

Assignee(s): TYLER KENNETH LYLE ; TYLER KENNETH ; STOCKETT RYAN ; COAD JOSIAH D ; ALFSON BLAKE L ; BUDGE TREVOR

Inventor(s): (std): STOCKETT RYAN C ; TYLER KENNETH L ; ALFSON BLAKE L ; COAD JOSIAH D ; BEEBOUT KALEB FORREST ; MUELLER MARTIN S ; BUDGE TREVOR DAVID ; TYLER KENNETH ; STOCKETT RYAN ; BUDGE TREVOR ; MUELLER MARTIN ; BEEBOUT JEFF ; TYLER KENNETH LYLE

Agent(s): SHELSTON IP PTY LTD; SMART AND BIGGAR; MARKS AND CLERK; STOCKETT RYAN C; STOCKETT RYAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

286) Family number: 43253849 (US2009272178A)

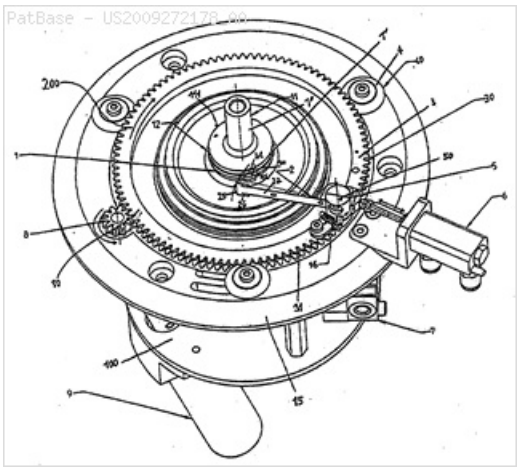
© PatBase

Title: METHOD AND DEVICE FOR STRIPPING OR TRIMMING SAMPLES TO BE EXAMINED RHEOLOGICALLY

Abstract: A method and device allow automatic trimming of samples for the measurement of the Theological properties of material samples by way of a plate/plate rheometer. In order to strip the protruding portion of the material sample arranged between the plates that projects over the circular circumferential edges of the rheometer plates-a cutting edge, which at its setting angle with respect to the tangent is pressed against the circular circumferential edge of the plates at the line of

contact and pertains to the blade of the stripping tool that is stayed, in particular articulated, by means of a holding strut at a holding point of a holding block, and the plates of the rheometer-relative to each other-are moved in rotation in a circle with respect to each other in at least a fully circumferential circular rotational movement, wherein the circular rotational movement is guided in such a way that the real or virtual relative rotational advance of the cutting edge of the stripping-tool blade is effected counter to the virtual or real circumferential circular rotational advance respectively of the rheometer plates.

Classifications:
International (IPC 8-9): B26F1/00 G01N1/28 G01N11/10 G01N11/14 G01N3/24 (Advanced/Invention);
B23B3/00 (Advanced/Non-invention);
G01N1/28 G01N11/10 G01N3/00 (Core/Invention)
CPC: Y10T82/10 G01N1/286 G01N3/24 G01N11/142 G01N11/14 G01N11/165
European: G01N1/28M G01N11/14 G01N11/14B G01N3/24 S01N11/16B1
US: 73/54.37 73/54.370P 82/1.11



Family:

Publication number	Publication date	Application number	Application date
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AT505939 B1	20090515	AT20080000686	20080430
DE102009017709 A1	20091105	DE200910017709	20090414
DE102009017709 B4	20181129	DE200910017709	20090414
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Priority:
AT20080000686 20080430

Probable Assignee: ANTON PAAR GMBH
Assignee(s): (std): ANTON PAAR GMBH ; HOHENSINNER HEINZ ; KRENN MICHAEL
Inventor(s): (std): HOHENSINNER HEINZ ; KRENN MICHAEL
Inventor(s): MICHAEL KRENN ; HEINZ HOHENSINNER
Agent(s): LERNER GREENBERG STEMER LLP; LAURENCE A; WERNER H; RALPH E

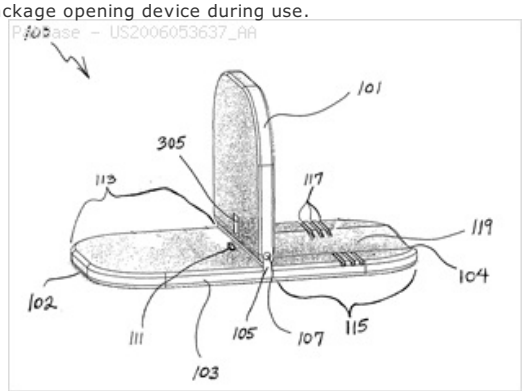
287) Family number: 32712852 (US2006053637A)

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Title: PACKAGE OPENING DEVICE

Abstract: A package opening device having a movable member hingedly connected to a base. At such point of connection, the movable member separates a cutting area from a grip area on the base. A cutting element is provided on a top face of the cutting area of the base and is preferably comprised of a ceramic material for facilitating cutting of e.g., shrink-wrapped packaging. The movable member is pivotable with respect to the base, wherein in an open position the movable member is pivoted to expose the cutting area, and thus the cutting element. In a closed position, the movable member may be folded flat against the base to cover the cutting element, the movable member including a relief to accomodate the cutting element when closed. The grip area is provided to facilitate handling of the package opening device during use.

Classifications:
International (IPC 8-9): B26B29/00 (Advanced/Invention);
B26B29/00 (Core/Invention)
CPC: B26B27/005
European: B26B27/00B
US: 30/286



Family:

Publication number	Publication date	Application number	Application date
US2006053637 AA	20060316	US20040941148	20040915

Priority:
US20040941148 20040915

Probable Assignee: NEISER GABE
Assignee(s): (std): NEISER GABE

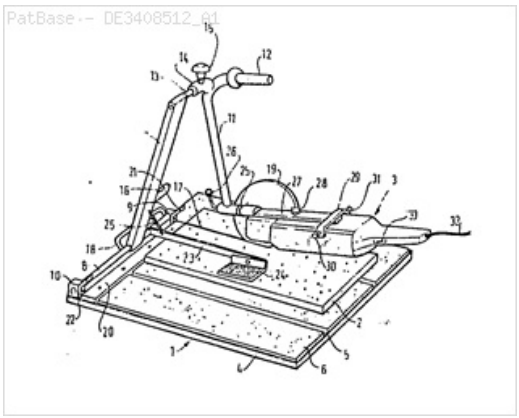
Assignee(s): STERLING NATIONAL BANK
Inventor(s): (std): NEISER GABE
Agent(s): KEUSEY TUTUNJIAN AND BITETTO PC

288) Family number: 3887852 (DE3408512A1)

Title: Apparatus for guiding a hand-guided cut-off grinding machine

Abstract: In the case of an apparatus for guiding a hand-guided cut-off grinding machine (3), a supporting surface (1) for the material (2) to be cut is provided. A lever arm (7), having one end which is pivotably arranged on the supporting surface (1), and an extension (11) which is fastened to the hand-guided cut-off grinding machine (3) and has a grip (12) are also provided. The extension (11) is articulated at the other end of the lever arm (7) so as to be capable of pivoting. The apparatus permits a correctly angled cut to be performed without physical exertions or risk. In addition, the apparatus, of simple construction, takes up little space when it is not in use.

Classifications:
International (IPC 8-9): B23D47/04 B23D59/00 B24B23/00 B27B5/18 (Advanced/Invention);
B23D47/00 B23D59/00 B24B23/00 B27B5/00 (Core/Invention)
International (IPC 1-7): B24B23/02 B24B27/06 B26B25/00
CPC: B23D47/04 B23D59/007 B24B23/005 B27B5/188
European: B23D47/04 B23D59/00D B24B23/00C B27B5/18G



Family:

Publication number	Publication date	Application number	Application date
CH663748 A	19880115	CH19840002960	19840619
DE3408512 A1	19850912	DE19843408512	19840308

Priority:
DE19843408512 19840308 CH19840002960 19840619

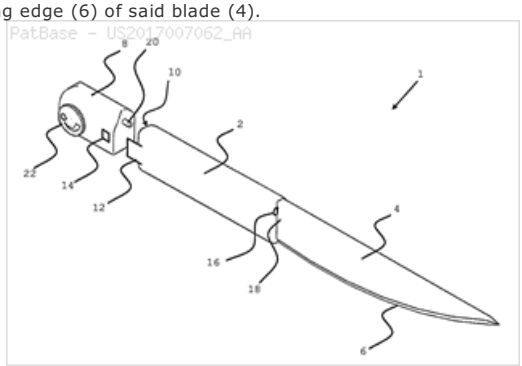
Probable Assignee: BRAMSTEIDL FRIEDRICH MUNDERFING AT
Assignee(s): (std): BRAMSTEIDL FRIEDRICH ; FRIEDRICH BRAMSTEIDL ; PERDOLT GOTTFRIED
Assignee(s): PERDOLT GOTTFRIED SALZBURG AT ; GOTTFRIED PERDOLT ; BRAMSTEIDL FRIEDRICH MUNDERFING AT
Inventor(s): (std): BRAMSTEIDL FRIEDRICH ; PERDOLT GOTTFRIED
Inventor(s): PERDOLT GOTTFRIED SALZBURG AT

289) Family number: 56425853 (US2017007062A)

Title: METHOD FOR CUTTING FRUIT, VEGETABLES OR SIMILAR, CUTTING TOOL, APPLICATOR FOR USE IN A CUTTING TOOL AND DOSING DEVICE

Abstract: The invention relates to a method for cutting fruit, vegetables or similar, to a cutting tool (1) for cutting fruit, vegetables or similar, to an applicator (8) for use in a cutting tool (1) and to a dosing device. According to the invention, a fluid is supplied to a blade (4) of a cutting tool (1), preferably a cutting edge (6) of said blade (4).

Classifications:
International (IPC 8-9): A23L33/15 A47G21/00 A47J17/02 A47J43/25 B26B11/00 B26D3/28 B26D7/08 B26D7/27 (Advanced/Invention)
CPC: A23L33/15 A23V2002/00 A47J17/02 A47G21/004 A47J43/25 B26B11/00 B26D3/283 B26D7/088 B26D7/27
US: 426/311



Family:

Publication number	Publication date	Application number	Application date
DE102013019078 A1	20150521	DE201310019078	20131116
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DE202014000963 U1	20140408	DE201420000963U	20140205
DE502014010562 D1	20190124	DE201450010562T	20141114
EP3068270 A2	20160921	EP20140827156	20141114
EP3068270 B1	20190102	EP20140827156	20141114
US2017007062 AA	20170112	US20140036993	20141114
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WO15070837 A3	20150827	WO2014DE000584	20141114

Priority:

DE201310019078 20131116 DE201420000963U 20140205 WO2014DE000584 20141114
EP20140827156 20141114

Probable Assignee: BOERNER DISTRIBUTION INT GMBH

Assignee(s): (std): BOERNER DISTRIB INT GMBH ; BOERNER DISTRIBUTION INT GMBH

Inventor(s): (std): ELSEN WOLFGANG KLAUS

Agent(s): WESTPHAL MUSSGNUG AND PARTNER PATENTANWAELTE MBB; WAGNER JOERG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

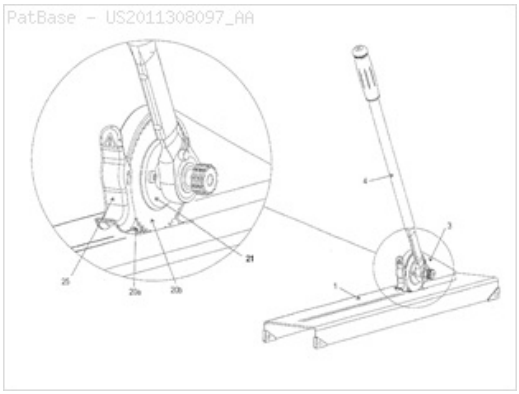
290) Family number: 44270853 (US2011308097A)

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Title: CUTTING TOOL FOR THE SEVERANCE OF BOARD-LIKE WORKPIECES

Abstract: Cutting tool for the severance of board-like or web-like workpieces (P), in particular of building boards, floorboards, rigid or flexible material or the like, also as sheet or web material, with a counterbearing, particularly in the form of a support (1d), and with at least one circular cutting blade (2) which is mounted rotatably above the counterbearing (1d) by means of a holding arrangement (3), in such a way that, in use, teeth of the circular cutting blade (2) penetrate into the board-like workpiece (P) to be severed, and, during the rotation of the circular cutting blade (2; 20), push the workpiece (P) forwards along the at least one circular cutting blade (2; 20), while at the same time the workpiece is sheared off on the counterbearing (1d). The holding arrangement (3) is connected to the counterbearing (1d) such that the forces occurring during severance can be absorbed. The at least one circular cutting blade (2; 20) can be driven at low speed, preferably manually, for the rotation, so that, during the severing operation, the workpiece is at the same time automatically transported and pushed forwards by the teeth of the at least one circular cutting blade. The rotation of the circular cutting blade is in this case sufficiently slow to ensure that the material is "sheared off" on the teeth of the circular sawblade and is not chipped, as occurs, for example, in the case of a circular saw.

Classifications:
International (IPC 8-9): B23D19/02 B23D29/00 B23D29/02 B23D45/16 B26D1/00 B26D1/14 B26D1/20 B26D1/22 B26D5/10 (Advanced/Invention);
B23D19/00 B23D29/00 B23D45/00 B26D1/00 B26D1/01 B26D5/08 (Core/Invention)
CPC: B26D1/18
European: B26D1/18
US: 30/388 30/388P



Family:

Publication number	Publication date	Application number	Application date
DE102008034675 A1	20100128	DE200810034675	20080725
DE202009018281 U1	20111208	DE200920018281U	20090724
US2011308097 AA	20111222	US20090055537	20090724
WO10010169 A1	20100128	WO2009EP59549	20090724

Priority:

DE200810034675 20080725 DE200920018281U 20090724 WO2009EP59549 20090724

Probable Assignee: VISONN GMBH AND CO KG

Assignee(s): (std): VISONN GMBH AND CO KG ; VOLLRATH THOMAS

Inventor(s): (std): VOLLRATH THOMAS

Agent(s): HENKEL FEILER AND HAENZEL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

291) Family number: 2304854 (US4287623A)

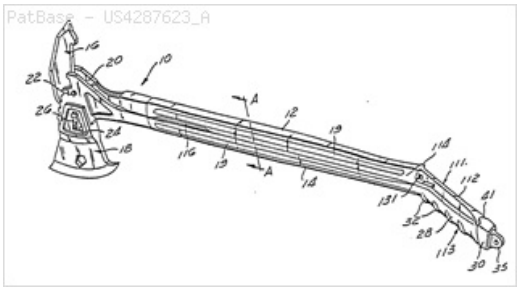
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Title: EMERGENCY RESCUE AXE DEVICE

Abstract: A combination tool is disclosed particularly suitable for emergency rescue applications, generally composed of two pivotally connected elongate handle members having an axe head and pick head mounted respectively thereon. The handle members may be locked together to be used as a composite structure, scissored apart to perform a variety of wire cutting and clamping functions, or alternatively separated from one another to be used independently. A plurality of head attachments are additionally disclosed which may be selectively mounted onto the axe head member to adapt the tool for use as a spade, hoe, hewing adz, basher, metal cutter, strap wrench, pipe wrench, and various other tools. The head attachments are mounted to the axe head member by a rotatable locking member which provides a quick connect and disconnect means for securing the attachments to the device. A holster, shoulder strap, and shoulder harness are utilized to carry the combination tool and head attachments upon a user. These are also adapted to serve as a boatswain's chair.

Classifications:
International (IPC 8-9): B23D29/02 B25F1/00 B25F1/02

B26B23/00 (Advanced/Invention);
B23D29/00 B25F1/00 B26B23/00 (Core/Invention)
International (IPC 1-7): B25F1/00 B25F1/02 B26B11/00
CPC: B25F1/006 B26B23/00 A62B3/005 B23D29/02 B25F1/02
European: B23D29/02 B25F1/02 B26B23/00 K62B3/00B
US: 7/139 7/158 7/166



Family:

Publication number	Publication date	Application number	Application date
CA1141107 A1	19830215	CA19800348298	19800324
EP0025796 A1	19810401	EP19800900697	19801008
US4287623 A	19810908	US19790023318	19790323
WO8002004 A1	19801002	WO1980US00293	19800319

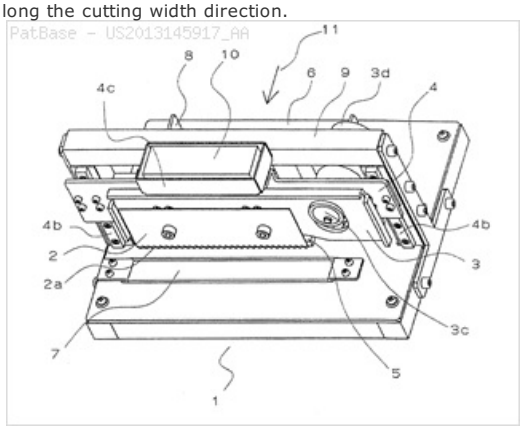
Priority:
US19790023318 19790323 CA19800348298 19800324

Probable Assignee: TARRAN CARRIE
Assignee(s): (std): TARRAN P ; TARRAN PHIL K
Assignee(s): TARRAN CARRIE ; TARRAN CARRIE 1505 SUMAC AVE BOULDER CO
Inventor(s): (std): TARRAN P ; TARRAN PHIL K
Agent(s): OSLER HOSKIN AND HARCOURT LLP
Designated states: BR CH DE FR GB JP NL NO SE

292) Family number: 54076858 (US2013145917A)

Title: APPARATUS FOR CUTTING SHEET STACK

Abstract: An apparatus for cutting a sheet stack is provided. The sheet stack is composed of a plurality of sheets. The apparatus includes a cutting blade having a plate form and having a cutting edge at one side extending along a cutting width direction. The cutting blade has at the one side: a plurality of projecting blade portions having ridge lines forming edge lines capable of thrusting and sawing cutting, the projecting blade portions projecting in a cutting direction; and a straight bottom portion between adjacent projecting blade portions. Cutting of the sheet stack is performed by applying a load to the cutting blade in the cutting direction, and by reciprocating the cutting blade along the cutting width direction.
Classifications:
International (IPC 8-9): B23D57/00 B26D1/00 B26D1/10 B26D7/06 B27B33/14 (Advanced/Invention);
B26D7/01 (Advanced/Non-invention)
CPC: B26D1/0006 B26D1/10 B26D7/015 B26D2001/006 Y10T83/9319
US: 83/835



Family:

Publication number	Publication date	Application number	Application date
JP2013139077 A2	20130718	JP20120266466	20121205
JP6049185 B2	20161221	JP20120266466	20121205
US2013145917 AA	20130613	US20120706865	20121206
US9511502 BB	20161206	US20120706865	20121206

Priority:
JP20110269976 20111209 JP20120266466 20121205

Probable Assignee: HITACHI METALS LTD
Assignee(s): (std): HITACHI METALS LTD ; HITACHI METALS PREC LTD ; HITACHI METALS PRECISION LTD
Assignee(s): HITACHI METAL PRECISION KK
Inventor(s): (std): ISHIHARA SHINYA ; TAKATSUKA HIROSHI
Agent(s): SUGHRUE MION PLLC

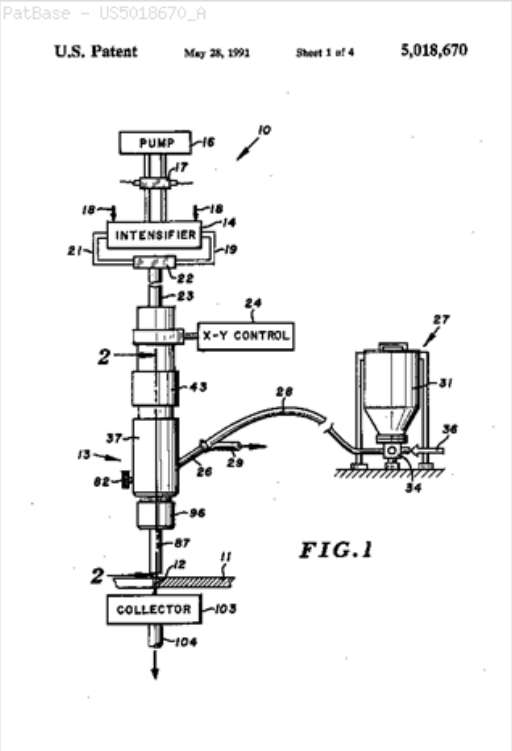
293) Family number: 2800858 (US5018670A)

Title: CUTTING HEAD FOR WATER JET CUTTING MACHINE

Abstract: A cutting head for a water jet cutting machine has a body removably supporting a holder with an orifice element, and insert with a chamber, and a nozzle having a passage in alignment with the water flow path through the head. The holder

has a cone shaped surface that fits into a complimentary shaped cone recess to align the aperture of the orifice element with the axis of a water inlet chamber. The insert is retained within a transverse bore in the body to align its chamber with the axis of the aperture. A griping collet holds the nozzle on the body and aligns the passage of the nozzle with the axis of the aperture so that aperture, insert chamber, and the passage of the nozzle are linearly aligned with each other to form the water flow path through the nozzle.

Classifications:
International (IPC 8-9): B24C5/04 B26F3/00 (Advanced/Invention); B24C5/00 B26F3/00 (Core/Invention)
International (IPC 1-7): B24C5/04 B26F3/00
CPC: Y10T83/364 B24C5/04
European: B24C5/04
US: 239/433 239/600 451/102 51/439 83/177



Family:

Publication number	Publication date	Application number	Application date
DE69003233 D1	19931014	DE19906003233	19901221
DE69003233 T2	19940105	DE19906003233T	19901221
EP0437168 A2	19910717	EP19900630258	19901221
EP0437168 A3	19910911	EP19900630258	19901221
EP0437168 B1	19930908	EP19900630258	19901221
JP2903249 B2	19990607	JP19900158530	19900615
JP3208559 A2	19910911	JP19900158530	19900615
US5018670 A	19910528	US19900463251	19900110

Priority:
US19900463251 19900110

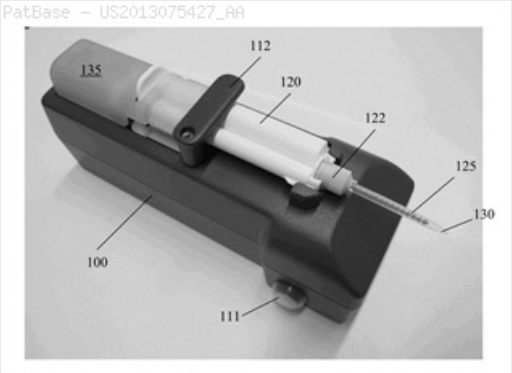
Probable Assignee: TC AMERICAN MONORAIL INC
Assignee(s): (std): POSSIS CORP
Assignee(s): POSSIS CORP MINNEAPOLIS MINN US ; POTSUSHISU CORP ; TC AMERICAN MONORAIL INC ; TEII SHII AMERIKAN MONOREERU INC
Inventor(s): (std): CHALMERS ERIC J ; ERITSUKU JIEI CHIYARUMAAZU
Inventor(s): CHALMERS ERIC J MINNEAPOLIS MINNESOTA 55426 US ; ERITSUKU JEI CHARUMAAZU
Designated states: DE DK ES FR GB IT NL SE

294) Family number: 53291858 (US2013075427A)

Title: EPOXY DISPENSING SYSTEM AND DISPENSING TIP USED THEREWITH

Abstract: The present disclosure describes, among other things, a method. The method may include determining a type of epoxy to be mixed from a first material in a first barrel of the dual-barrel cartridge and a second material in a second barrel of the dual-barrel cartridge. The method may include determining a first rate at which to advance a first plunger against the first barrel based at least in part on the type of epoxy to be mixed. The method may include determining a second rate at which to advance a second plunger against the second barrel based at least in part on the type of epoxy to be mixed. The first rate and the second rate may be associated with a proportion between an amount of the first material and an amount of the second material to mix for the epoxy.

Classifications:
International (IPC 8-9): B01F13/00 B01F15/00 B01F15/02 B01F15/04 B05C17/005 B24B7/24 B25B11/00 B29B7/74 B65D5/66 B67D7/14 F27D19/00 F27D21/00 G02B6/25 G02B6/46 (Advanced/Invention); B01F5/06 G02B6/38 (Advanced/Non-invention)
CPC: G02B6/25 G02B6/46 B01F5/0615 B01F13/003 B01F15/00318 B01F15/0037 B01F15/0087 B01F15/0237 B01F15/042 B05C17/00553 B29B7/7447 G02B6/3857 Y10T225/30 Y10T225/325
US: 1/1 222/1 222/135 222/145.5 222/52 225/93 225/96.5 269/37 432/1 432/32 432/51 451/44 451/461 451/54 451/65



Family:

Publication number	Publication date	Application number	Application date
US2013075427 AA	20130328	US20120402315	20120222
US2013078587 AA	20130328	US20120402310	20120222
US2013095732 AA	20130418	US20120631319	20120928
US8998682 BB	20150407	US20120631319	20120928
US9239428 BB	20160119	US20120402315	20120222

Priority:

US20110540271P 20110928 US20120402310 20120222 US20120402315 20120222 US20120631319 20120928

Probable Assignee: KSARIA CORP

Assignee(s): (std): CHRISTOPHER ANTHONY J ; CIOLFI GEORGE ; KSARIA CORP

Assignee(s): BMO HARRIS BANK NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): CHRISTOPHER ANTHONY J ; CIOLFI GEORGE

Agent(s): CHOATE HALL AND STEWART LLP; WILLIAM R

295) Family number: 20225858 (US4252749A)

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Title: Production of 1,2-dichloroethane with purification of dichloroethane recycle

Abstract: In a process for production of 1,2-dichloroethane by reaction of chlorine and ethylene at temperatures between about 85 DEG C. and about 160 DEG C. conducted in the presence of a liquid medium in which a recycle stream of 1,2-dichloroethane containing chloroprene and optionally other incompletely chlorinated C4 hydrocarbons is introduced into the chlorination reaction system, the improvement comprising subjecting the recycle 1,2-dichloroethane to controlled chlorination by contacting it with a chlorination agent in such a manner and under such conditions as to partially chlorinate the chloroprene contained therein to produce a chlorinated derivative thereof, fractionating the thus treated 1,2-dichloroethane to separate chlorinated derivates of chloroprene therefrom, and introducing the thus purified 1,2-dichloroethane recycle into the chlorination reactor.

Classifications:

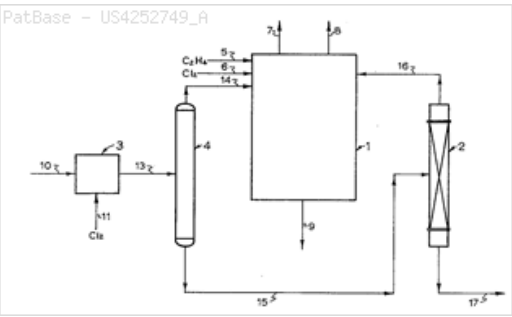
International (IPC 8-9): B01D53/72 B01D53/77 C07C17/00 C07C17/02 C07C17/395 C07C19/045 C07C67/00 H01C17/28 H01G13/00 H01G4/228 H05K13/00 (Advanced/Invention); B01D53/46 B01D53/77 C07C17/00 C07C19/00 C07C67/00 H01G13/00 (Core/Invention)

International (IPC 1-7): B21F23/00 B23K3/00 B23P19/00 B23Q7/14 B25B29/00 B65B15/04 B65G35/04 B65G37/02 C01B C07C17/00 C07C17/02 C07C17/04 C07C17/38 C07C19/00 C07C19/02 C07C19/045 C07C21/00 C07C21/02 C07C21/04 C07C21/06 C07C9/00 H01B19/04 H01G1/14 H01G5/24 H01L21/58 H01L23/32 H05K13/00 H05K7/06

CPC: H01G4/228 H01C17/28 H01G13/006 H05K13/003 Y10T29/435 C07C17/395 C07C17/02

European: C07C17/02 C07C17/395 H01C17/28 H01G1/14 H01G13/00C H01G4/228 H05K13/00H

US: 206/716 29/25.42 570/251 570/252 570/254 570/255 570/262



Family:

Publication number	Publication date	Application number	Application date
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AT861776 A	19790515	AT19760008617	19761119
AU197469950 A1	19751211	AU19740069950	19740610
AU197619767 A1	19780525	AU19760019767	19761118
AU502777 B2	19790809	AU19760019767	19761118
BE521736 A	00000000		00000000
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BE848538 A5	19770520	BE19760172518	19761119
BE848538 R	19770520	BE19760172518	19761119
BR7403022 A	19751216	BR19740003022	19740416
CA1021803 A1	19771129	CA19740195968	19740326
CH601146 A	19780630	CH19740007899	19740610
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DD112979 C	19750512	DD19740179058	19740610
DD128813 Y	19771214	DD19760195870	19761119

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DE1047118 B	19581218	DE1953P010192	19530728
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DE2652332 C2	19840927	DE19762652332	19761117
DK149803 B	19861006	DK19760005246	19761119
DK149803 C	19870406	DK19760005246	19761119
DK151006 B	19871012	DK19740003058	19740607
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FR2232527 B1	19770617	FR19740019935	19740610
FR2332251 A2	19770617	FR19760035007	19761119
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GB774073 A	19570508	GB19520019034	19520728
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IL44995 A0	19740910	IL19740044995	19740610
IL44995 A1	19761231	IL19740044995	19740610
IL50939 A1	19791130	IL19760050939	19761118
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NL178785 B	19851216	NL19740007782	19740611
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YU281376 A	19820531	YU19760002813	19761117
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ZA7403667 A	19750730	ZA19740003667	19740610
ZA7606943 A	19771228	ZA19760006943	19761119

Priority:

GB19520019034 19520728 GB19560006028 19520728 US19730368569 19730611
IL19740044995 19740610 US19750622183 19751010 US19750633520 19751119
IL19760050939 19761118 US19790002155 19790109

Probable Assignee: STAUFFER CHEMICAL CO

Assignee(s): (std): PACKMAN PERCIVAL JAMES ; PLESSEY CO LTD ; STAUFFER CHEM CO ; STAUFFER CHEMICAL CO ; STAUFFER CHEMICAL CO US ; STAUFFER CHEMICAL COMPANY ; STAUFFER CHEMICAL COMPANY TE WESTPORT CONNECTICUT ; STAUFFER CHEMICAL CY ; STAUFFER CO ; STAUFFER CHEMICAL CY US

Assignee(s): CAMPBELL RAMSEY G ; STAUFFER CHEMICAL COMPANY US ; STAUFFER CHEMICAL COMPANY TE WESTPORT CONNECTICUT VER ST V AM ; THE PLESSEY COMPANY LIMITED ; STAUFFER CHEMICAL COMP ; STAUFFER CHEMICAL CO WESTPORT CONN US ; STAUFFER CHEMICAL CO 06880 WESTPORT CONN US ; STAUFFER CHEMICAL CO TE WESTPORT CONNECTICUT VER ST V AM

Inventor(s): (std): JAMES PACKMAN PERCIVAL ; KNOSHAUC WENDELL E ; KNOSHAUG W ; KNOSHAUG W E ; KNOSHAUG WE ; KNOSHAUG WENDEL EUGENE ; KNOSHAUG WENDELL E ; KNOSHAUG WENDELL EUGENE ; PACKMAN PERCIVAL JAMES ; R G CAMPBELL ; RAMSEY GORDON CAMPBELL ; RAMUJII JII KYANBERU ; RG CAMPBELL ; W E KNOSHAUG ; WE KNOSHAUG ; WENDELL EUGENE KNOSHAUG ; CAMBELL R G ; CAMBELL RG ; CAMPBELL R ; CAMPBELL R G ; CAMPBELL RAMSEY G ; CAMPBELL RAMSEY GORDON ; CAMPELL RAMSEY GORDON

Inventor(s): EUGENE KNOSHAUG WENDELL ; GORDON CAMPBELL RAMSEY ; CAMPBELL RAMSEY GORDON BERKELEY CALIF ; KNOSHAUG WENDELL EUGENE ALBANY CALIF

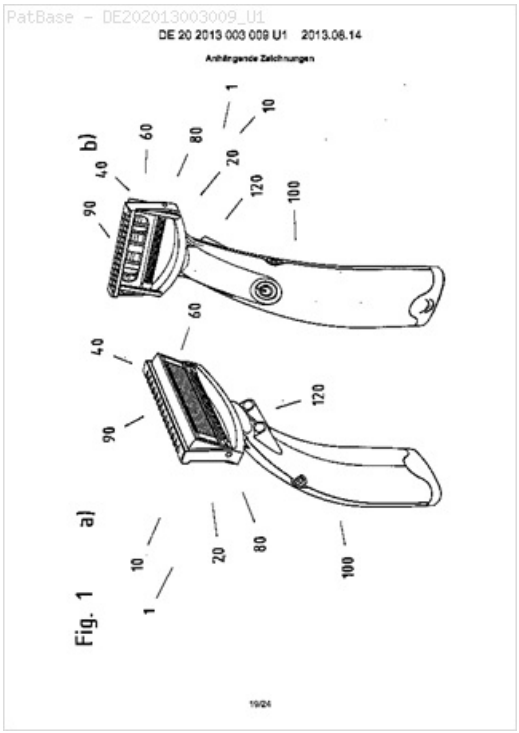
Agent(s): REINHOLD COHN AND PARTNERS

296) Family number: 54506861 (DE202013003009U1)

Title: MECHANISCHER KOMFORT-RASIERER

Abstract: Source: DE202013003009U1 [DE] Mechanischer Komfort-Rasierer – insbesondere ein mechanischer Nassrasierer (1) mit einem feststehenden Rasiererkopf-Rahmen (20), einem wechselbaren Klingenblock (60) in einem federnden Klingenblock-Rahmen (40) und zusaetzlichen Funktionen, dadurch gekennzeichnet, dass – der Rasiererkopf (10) aus einem rundum offen ausgepraegten, feststehenden Rasiererkopf-Rahmen (20) besteht, mit einem Handstueck (100) verbunden, – der Rasiererkopf-Rahmen ein Unterteil (21), zwei kuerzere Seitenteile 1, 2 (22, 24) und ein Oberteil (23) besitzt, – der Rasiererkopf-Rahmen einen quaderfoermigen Innenraum freigibt, in dem ein federnd gelagerter Klingenblock-Rahmen (40) schwenkbar angeordnet ist, – der Klingenblock-Rahmen (40) ein Unterteil (41), zwei kuerzere Seitenteile 1, 2 (42, 44) und ein Oberteil (43) aufweist und – der Klingenblock-Rahmen einen quaderfoermigen Innenraum freigibt, in dem ein Klingenblock (60) aus einem Unterteil (61), zwei kuerzeren Seitenteilen 1, 2 (62, 64) und einem Oberteil (63) mechanisch fest oder auswechselbar angeordnet ist.

Classifications:
International (IPC 8-9): B26B21/22 B26B21/52 (Advanced/Invention)
CPC: B26B21/225 B26B21/34 B26B21/4012 B26B21/4043 B26B21/58 B26B21/38 B26B21/46 B26B21/521



Family:

Publication number	Publication date	Application number	Application date
DE102013007223 A1	20141002	DE201310007223	20130426
DE202013003009 U1	20130814	DE201320003009U	20130401

Priority:

DE201320003009U 20130401 DE201310007223 20130426

Probable Assignee: HIDDE AXEL R

Assignee(s): (std): HIDDE AXEL R ; KLOSE ODO

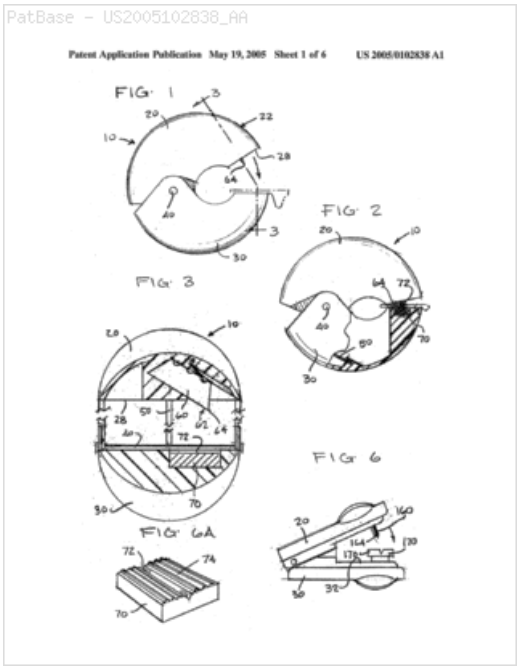
Assignee(s): HIDDE ; KLOSE

Inventor(s): (std): HIDDE AXEL R ; KLOSE ODO

297) Family number: 31920862 (US2005102838A)

Title: CLAM SHELL AND BLISTER PACKAGE OPENING DEVICE AND METHOD FOR USING SAME

Abstract: Opening a blister or clam shell package with a continuous linear cut includes positioning the package between jaws, at least one of which includes a cutting surface, moving the jaws to a compressed position in which the cutting surface penetrates the package, and sliding the jaws relative to the package while maintaining the jaws in the compressed position. Several handheld devices to implement the method are described, including variations in which the handheld device has fixed jaws and in which the device is an appliance. Devices include at least one bearing surface which reduces the risk of cutting users and things other than the package to be opened.
Classifications:
International (IPC 8-9): B26B17/00 B26B5/00 B65B69/00 (Advanced/Invention);
B26B17/00 B26B5/00 B65B69/00 (Core/Invention)
International (IPC 1-7): B26B1/00
CPC: B26B5/00 B26B17/00 B65B69/0033
European: B26B17/00 B26B5/00 B65B69/00D1
US: 30/134



Family:

Publication number	Publication date	Application number	Application date
US2005102838 AA	20050519	US20050906443	20050220

Priority:

US20050906443 20050220

Probable Assignee:	LEASON DAVID
Assignee(s): (std)**:**	LEASON DAVID
Inventor(s): (std)**:**	LEASON DAVID
Agent(s):	DAVID LEASON

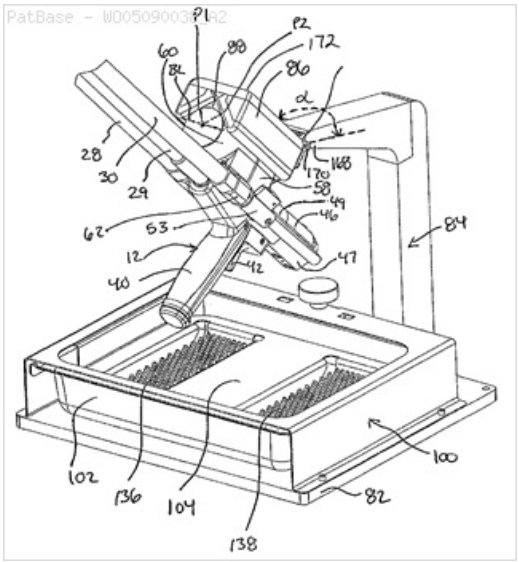
298) Family number: 32272863 (WO05090038A3)

© PatBase

Title: DISPENSER SYSTEM WITH DISPENSER HOLSTER

Abstract: A dispenser holster assembly having a support structure (89) as in a weighted base plate and a support arm with cantilever upper section which is attached to a cradle (86) for holding a dispenser (12) component within a V-shaped capture recess (90) of the cradle, preferably by way of magnetic attraction between cradle magnet(s) and a component of the motor as in the magnetic material in an electric motor of the dispenser positioned on the top of the dispenser and contacted by the downwardly facing V-shaped recess. The cradle is preferably attached to the support arm with a pivot connection. There is further preferably provided a solvent pan (102) supported by said support structure and a brush reception housing (104) which has multiple brush reception openings that place supported brushes within the solvent in the solvent pan. The solvent pan is supported by a pan holder that has slide rails and there is a pan locking device which holds the pan in place during use. The pan holder also supports the brush reception housing so that the brush device retained by the brush insert are placed in the solvent pool and have exposed bristle faces directly below the cradle. In a method of using the dispenser's motor is magnetically attached to the downwardly facing cradle when parked and the dispenser's tip is scraped on the bristles between uses.

Classifications:
International (IPC 8-9): B05B15/02 B05B15/06 B25H1/00 B29B7/74 B29B7/76 (Advanced/Invention);
B05B15/00 B05B15/02 B25H1/00 B29B7/00 (Core/Invention)
International (IPC 1-7): B05B15/02 B05B15/06 B25H1/00 B29B7/74 B29B7/76
CPC: B05B15/62 B05B15/52 B05B15/55 B05B15/625 B05B15/628
European: B05B15/02A B05B15/06A B05B15/06A3 L05B15/02B L05B15/06A2



Family:

Publication number	Publication date	Application number	Application date
WO05090038 A2	20050929	WO2005US08324	20050314

WO05090038 A3	20060216	WO2005US08324	20050314

Priority:

US20040552210P 20040312

Probable Assignee: INTELLIPACK

Assignee(s): (std): BERTRAM GEORGE ; INTELLIPACK ; WALKER DOUG

Inventor(s): (std): BERTRAM GEORGE ; WALKER DOUG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

299) Family number: 62649865 (US2016167241A)

© PatBase

Title: INTELLIGENT SHAVING SYSTEM HAVING SENSORS

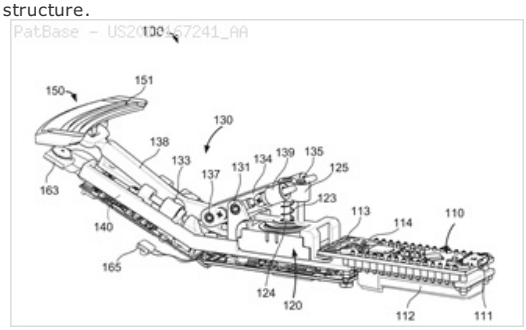
Abstract: Methods and apparatuses for an intelligent shaving system is disclosed herein. An example intelligent shaving system includes a handle, at least one blade connected to the handle, a microcontroller attached to the handle, a wireless communication unit configured to send and receive data from microcontroller to an external device, a memory configured to store data applicable to the at least one blade, and one or more sensors configured to send sensory data from the one or more sensors to microcontroller. The one of the one or more sensors is a proximity sensor or a camera having image sensor configured to capture video and/or still images. The shaving system assists in determining blade attrition and provides indicators to assist in shaving techniques. The shaving system further may include at least one blade slightly curved to follow a tangent of the skin. The at least one blade may have a nanolattice structure.

Classifications:

International (IPC 8-9): B26B19/38 B26B21/22 B26B21/40 B26B21/52 B26B21/54 B26B21/56 B26B21/58 G06T7/00 G06T7/40 (Advanced/Invention)

CPC: B26B21/4056 B26B21/526 B26B21/4087 B26B21/565 B26B21/58 G06T2207/10024 G06T2207/30201 B26B21/28 G06T7/0004 G06T7/40 G06T2207/30088 B26B21/225 B26B21/4068 G06T7/001 B26B21/56

US: 30/34.05 30/346.53 30/41.7 30/49 382/108



Family:

Publication number	Publication date	Application number	Application date
TW201637802 A	20161101	TW20150141538	20151210
US2016167241 AA	20160616	US20150961842	20151207
US2018354147 AA	20181213	US20180025128	20180702
WO16094327 A1	20160616	WO2015US64339	20151207

Priority:

US20140090335P 20141210 US20150961842 20151207 US20180025128 20180702

Probable Assignee: GOLDFARB HAGGAI

Assignee(s): (std): GOLDFARB HAGGAI ; OREN SIMON

Inventor(s): (std): GOLDFARB HAGGAI ; OREN SIMON

Agent(s): YIM PETER J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

300) Family number: 53197870 (ES1078837U)

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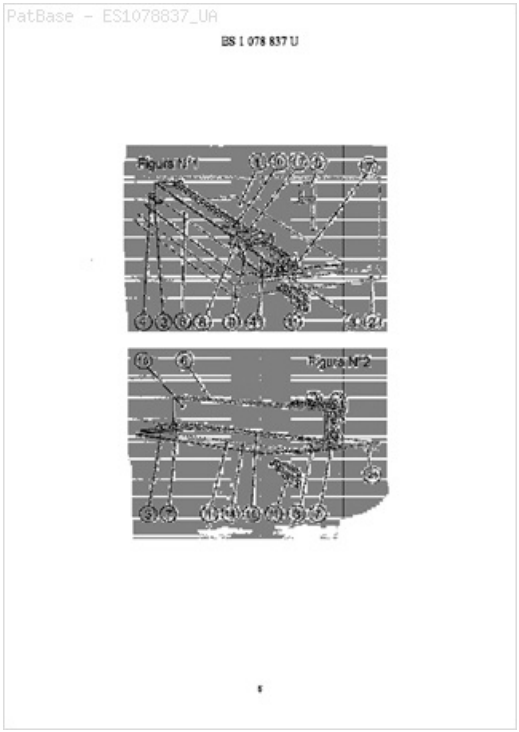
Title: MAQUINA PARA CORTAR BALDOSAS DELGADAS THIN TILE CUTTING MACHINE (Machine translation)

Abstract: Source: ES1078837U [ES] 1. Maquina para cortar baldosas, del tipo que comprende al menos un par de apoyos (3) a un plano de trabajo (2), una guia (6) apoyada sobre la baldosa (1) a cortar, y una palanca (8) para una ruedecilla (9) de incision, caracterizada por comprender medios de vinculacion (7; 12, 13; 18, 26) simetricos, entre los apoyos (3) y la guia (6), aptos para hacer pasar la guia (6) desde una posicion de trabajo, en la cual se apoya al menos en parte sobre la baldosa (1), hasta una posicion de reposo, en la cual no interfiere con la baldosa (1), de modo de permitir su insercion, extraccion y viceversa. 2. Maquina segun la reivindicacion 1, caracterizada porque dichos medios de vinculacion comprenden bisagras (7 y 7') aptas para hacer girar la guia (6) con respecto a un eje (21) longitudinal de las mismas bisagras (7 y 7'), desde la situacion de apoyo sobre la baldosa (1) hasta una altura suficientemente alta como para que no toque la baldosa (1). 3. Maquina segun la reivindicacion 1, caracterizada porque dichos medios de vinculacion comprenden superficies (12', 12'', 12''' y 12'''') perfiladas, apoyos (3a y 3'a) y correspondientes protuberancias (13', 13'', 13''' y 13'''') de la guia (6), aptas para levantar la guia (6) durante un desplazamiento de la misma, perpendicularmente a la direccion de incision y paralelamente al plano de trabajo (2). 4. Maquina segun la reivindicacion 1, caracterizada porque dichos medios de vinculacion comprenden acanaladuras (18 y 18') y organos de bloqueo (26 y 26'), aptos para mantener la guia (6) levantada con respecto a la baldosa (1). 5. Maquina segun la reivindicacion 1, caracterizada por de comprender un tapete de goma (16) dispuesto en la pared de la guia (6) en contacto con la superficie de la baldosa (1), de modo de impedir cualquier movimiento de la baldosa (1) durante la fase de incision. 6. Maquina segun la reivindicacion 1, caracterizada por de comprender al menos una regla metrica (17, 17') de medida de la pieza cortada. 7. Maquina segun la reivindicacion 1, caracterizada por de comprender un cuerpo de carro (24) provisto de al menos tres cojinetes de bolas (20, 20', 20'') con perfil de rodamiento complementario al de la guia (6). 8. Maquina segun la reivindicacion 1, caracterizada porque el cuerpo de carro (24) comprende al menos un cojinete de deslizamiento (28) con perfil complementario al de la guia (6). 9. Maquina segun la reivindicacion 1, caracterizada porque la palanca (8) esta abisagrada en el eje (25) con respecto al cuerpo de carro (24), de modo que permite movilidad vertical a la ruedecilla de incision (9). 10. Maquina segun la reivindicacion 1,

caracterizada por de comprender medios de fijacion (4; 5) aptos para vincular los apoyos (3) al plano de trabajo (2). 11. Maquina segun la reivindicacion 10, caracterizada porque los medios de fijacion comprenden orificios (4, 4') para el paso de tornillos. 12. Maquina segun la reivindicacion 11, caracterizada porque los medios de fijacion comprenden abrazaderas (5) para el apriete de los apoyos (3) al plano de trabajo (2).

Machine translation: 1. Machine for cutting tiles, of the type comprising at least one pair of supports (3) to a working plane (2), a guide (6) resting on the tile (1) to be cut, and a lever (8) for a wheel (9) of incision, characterized by comprising engaging means (7, 12, 13, 18, 26) symmetrical between the supports (3) and the guide (6), suitable for passing the guide (6) from a working position, in which it rests at least partially on the tile (1), to a rest position in which it does not interfere with the tile (1), so as to allow insertion, removal and vice versa. 2. Machine according to claim 1, characterized in that said linking means comprise hinges (7, 7 ') suitable for rotating the guide (6) with respect to an axis (21) longitudinal to the same hinges (7, 7'), from the support location on the tile (1) to a height high enough not to touch the tile (1). 3. Machine according to claim 1, characterized in that said linking means comprise surfaces (12 ', 12'', 12''' and 12'''') profiled supports (3a and 3a ') and corresponding protrusions (13', 13'', 13'' 'and 13'''') of the guide (6), apt to raise the guide (6) for a displacement thereof perpendicularly to the direction of incision and parallel to the working plane (2). 4. Machine according to claim 1, characterized in that said linking means comprise grooves (18, 18 ') and the locking organs (26, 26'), apt to keep the guide (6) raised with respect to the tile (1). 5. Machine according to claim 1, characterized by a rubber mat comprise (16) disposed in the guide wall (6) in contact with the surface of the tile (1), so preventing any movement of the tile (1) during the incision. 6. Machine according to claim 1, characterized by comprising at least a metric ruler (17, 17 ') for measuring the cut piece. 7. Machine according to claim 1, characterized of comprising a carriage body (24) provided with at least three ball bearings (20, 20 ', 20'') with the bearing profile complementary to that of the guide (6). 8. Machine according to claim 1, wherein the carriage body (24) comprises at least one sliding bearing (28) with a profile complementary to the guide (6). 9. Machine according to claim 1, characterized in that the lever (8) is hinged on the shaft (25) with respect to the carriage body (24), so as to allow mobility of the wheel vertical incision (9). 10. Machine according to claim 1, characterized by comprising means of attachment (4, 5) suitable for linking the supports (3) to the worktable (2). 11. Machine according to claim 10, characterized in that the fixing means comprise holes (4, 4 ') for the passage of screws. 12. Machine according to claim 11, characterized in that the fixing means comprise brackets (5) for clamping the support (3) to the worktable (2).

Classifications:
International (IPC 8-9): B28D1/00 (Advanced/Invention); B26B (Subclass/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1078837 UA	20130315	ES20120031321U	20121212
ES1078837 Y1	20130613	ES20120031321U	20121212
ITRN20110013 U1	20130614	IT2011RN00013U	20111213

Priority:
IT2011RN00013U 20111213

Probable Assignee: SIGMA DI EVARISTO AMBROGIANI AND C S NC
Assignee(s): (std): SIGMA DI EVARISTO AMBROGIANI AND C S N C ; SIGMA DI EVARISTO AMBROGIANI AND C S NC
Assignee(s): SIGMA DI EVARISTO AMBROGIANI AND C SNC
Inventor(s): (std): AMBROGIANI SERGIO ; AMBROGIANI VALTER
Inventor(s): SERGIO AMBROGIANI ; VALTER AMBROGIANI
Agent(s): SANZ-BERMELL SANZ-BERMELL ALEJANDRO

301) Family number: 28199886 (US2001005473A)

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Title: Structure and method of bonding parts

Abstract: A tapered barrel with a female thread is embedded in a tapered hole of a first soft member. A tapered barrel with a throughhole is embedded in a tapered hole of a second soft member. A bolt is inserted through the throughhole and screwed into the female thread. The tapered hole has a tapered portion, the height of which is substantially equal to the length of a tapered portion of the tapered barrel.
Classifications:
International (IPC 8-9): B21J13/00 B23B51/00 B25B21/00 B25D9/08

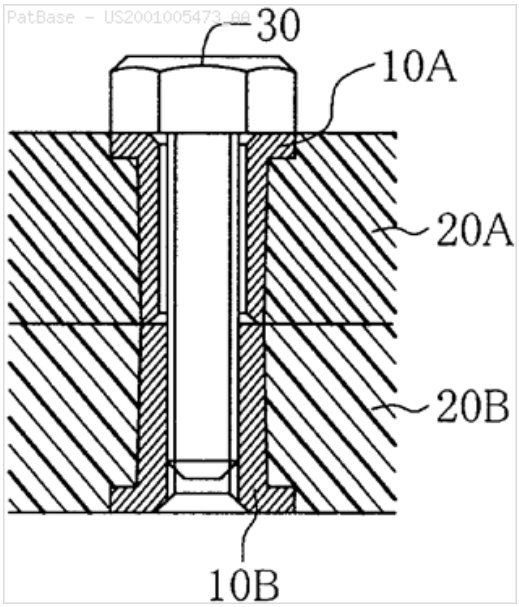
B65G1/00 E04B1/61 E04B2/02 F16B17/00 F16B35/00 F16B35/04 F16B37/00 F16B37/04 F16B37/12 F16B5/02 (Advanced/Invention); B21J13/00 B25B21/00 B65G1/00 (Advanced/Non-invention); B21J13/00 B23B51/00 B25B21/00 B25D9/00 E04B1/61 E04B2/02 F16B17/00 F16B35/00 F16B35/04 F16B37/00 F16B37/04 F16B5/02 (Core/Invention)

International (IPC 1-7): B21D39/00 B21J13/00 B21K25/00 B23B51/00 B23G1/20 B23P19/00 B23P19/02 B23P21/00 B25B21/00 B25D1/00 B65G1/00 E04B1/61 E04B2/02 F16B21/00 F16B35/00 F16B35/04 F16B37/00 F16B37/02 F16B37/04 F16B37/12 F16B5/02 F16D1/09

CPC: Y10T29/49881 Y10T29/49904 Y10T29/49945 Y10T29/53078 Y10T408/60 B23B51/00 B25D9/08 F16B37/122 B23B51/0081 B23B51/009 F16B37/04 B25B21/00

European: B23B51/00 B23B51/00K B23B51/00L B25D9/08 F16B37/12B

US: 227/52 227/52S 29/456 29/456S 29/469 29/525 29/718 408/117 408/117S 411/172 411/180 411/180P 411/338 411/339 411/339P



Family:

Publication number	Publication date	Application number	Application date
DE19707276 A1	19970828	DE19971007276	19970224
DE19707276 C2	20030102	DE19971007276	19970224
DE19758689 B4	20050908	DE19971058689	19970224
DE19758690 B4	20050901	DE19971058690	19970224
EP1008771 A1	20000614	EP19970937805	19970827
EP1008771 A4	20021218	EP19970937805	19970827
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JP10073115 A2	19980317	JP19970245001	19970910
JP10073115 A2	19980317	JP19970245001	19970124
JP2001248624 A2	20010914	JP20000057203	20000302
JP2002122116 A2	20020426	JP20010314309	20011011
JP3400276 B2	20030428	JP19970011355	19970124
JP3840393 B2	20061101	JP20010314309	20011011
JP3845976 B2	20061115	JP19970245001	19970124
JP3845976 B2	20061115	JP19970245001	19970910
JP9287609 A2	19971104	JP19970011355	19970124
KR100241956 B1	20000302	KR19970005446	19970222
KR100244436 B1	20000315	KR19990027944	19990712
KR100263721 B1	20000801	KR19990027945	19990712
KR100288202 B1	20010416	KR19990027947	19990712
KR100306458 B1	20010924	KR20000000402	20000106
KR19970061394 A	19970912	KR19970005446	19970222
KR20010087160 A	20010915	KR20010002791	20010118
KR970061394 A	19970912	KR19970005446	19970222
TW343258 B	19981021	TW19970102415	19970227
TW531598 B	20030511	TW20010100366	20010108
US2001005473 AA	20010628	US20010764405	20010119
US2001007628 AA	20010712	US19970803232	19970220
US2002025239 AA	20020228	US20010984763	20011031
US2002051693 AA	20020502	US20010984764	20011031
US2003194289 AA	20031016	US20030442295	20030521
US6488458 BB	20021203	US19970803232	19970220
US6591475 BB	20030715	US20010984764	20011031
US6609288 BB	20030826	US20010984763	20011031
US6751851 BB	20040622	US20030442295	20030521
WO9910659 A1	19990304	WO1997JP02979	19970827

Priority:

JP19960036530 19960223
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WO1997JP02979 19970827
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US20010984764 20011031

Probable Assignee: HITACHI LTD

Assignee(s): (std): HITACHI LTD ; SHIOKAWA TAKEJI

Assignee(s): NINOMIYA CHIKAKAZU ; MIYAMOTO MITSUO ; MIKAWA MITSUYA ; HITACHI SEISAKUSHO KK ; KAMINAGA HIDEO ; IMAI KUNINORI

Inventor(s): (std): KAMINAGA HIDEO ; KAMINAGA NORIO ; MIKAWA MITSUYA ; IMAI KUNINORI ; MIKAWA TERUYA ; MIYAMOTO MITSUO ; NINOMIYA CHIKAWA ; SCHIOKAWA TAKEJI ; SHIOKAWA TAKEJI ; NINOMIYA CHIKAKAZU ; NINOMIYA YOSHIKAZU ; MIKAWA MSUYA

Inventor(s): NINOMIYA CHIKAKAZU HADANO KANAGAWA JP ; SHIOKAWA TAKEJI KANAGAWA JP ; MIYAMOTO MITSUO HADANO KANAGAWA JP ; IMAI KUNINORI KANAGAWA JP ; MIKAWA MITSUYA ISEHARA KANAGAWA JP

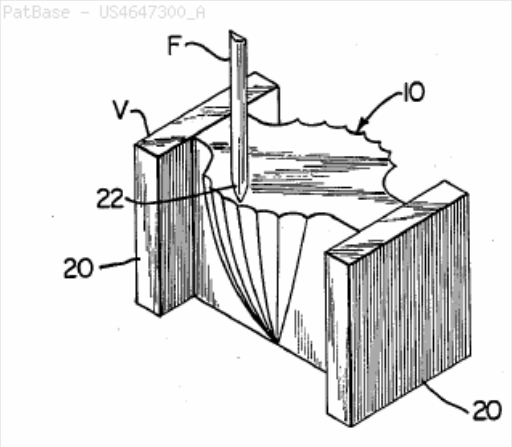
Designated states: AT BE CH CN DE DK ES FI FR GB GR IE IT LU MC NL PT SE SG

302) Family number: 5229906 (US4647300A)

Title: METHODS OF MAKING CUTTING IMPLEMENTS AND RESULTING PRODUCTS

Abstract: The invention comprises a method of forming cutting blades from solid vitreous material by first placing a mass of molten material into a mold having at least one indentation to cause a ridge to form adjacent to a first surface in the material, cooling the molten material at a rate to preclude internal stresses or other inhomogeneity in the solid material, forming a second substantially flat surface intersecting the ridge area and finally directing fracturing pressure in a controlled direction of force into the material at the second surface in the vicinity of the said ridge in a direction substantially parallel to the first surface whereby a cutting implement is sheared off of the said material.

Classifications:
International (IPC 8-9): A61B17/32 B26B9/00 C03B19/02 C03B33/00 (Advanced/Invention);
A61B17/32 B26B9/00 C03B19/00 C03B33/00 (Core/Invention)
International (IPC 1-7): C03B33/00
CPC: A61B17/3211 B26B9/00 C03B19/02 C03B33/00 Y10T225/325
European: A61B17/3211 B26B9/00 C03B19/02 C03B33/00
US: 128/314 128/315 128/339 225/96.5 606/167 65/105 65/112



Family:

Publication number	Publication date	Application number	Application date
US4647300 A	19870303	US19840572175	19840118

Priority:

US19810301953 19810914 US19840572175 19840118

Probable Assignee: SHEETS PAYSON D

Assignee(s): (std): SHEETS PAYSON D

Assignee(s): FRACTURE MECHANICS LTD ; FRACTURE MECHANICS LTD A CORP OF CO ; MEDICAL DEVELOPMENT RESOURCES INC

Inventor(s): (std): SHEETS PAYSON D

303) Family number: 67315909 (US2017303709A)

Title: PICTURE HANGING MARKING TOOL

Abstract: The present invention includes methods, devices, kits, and components of an apparatus that can assist a user to identify locations of attachment points or openings on a frame and transferring those measurements to a wall for purposes of supporting a picture that is level.

Classifications:
International (IPC 8-9): A47G1/16 A47G1/24 B25H7/04 G01C9/02 (Advanced/Invention)
CPC: A47G1/24 B25H7/04 G01C9/02 A47G1/205

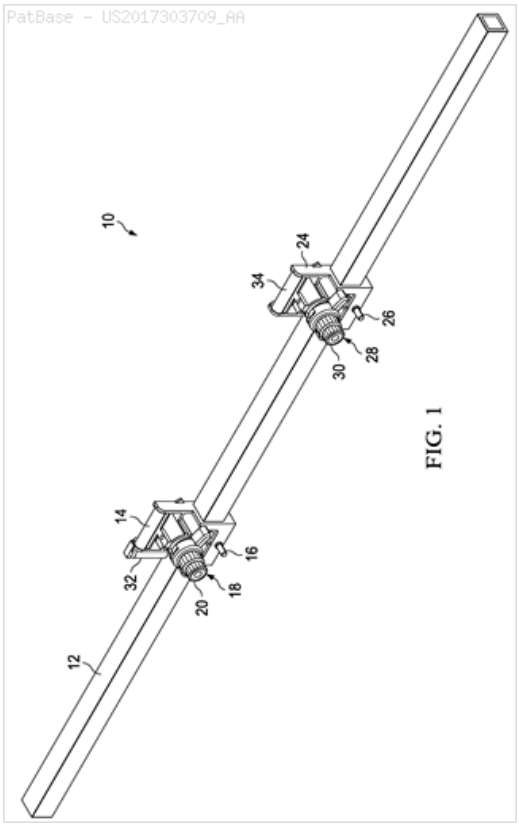


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2017303709 AA	20171026	US20170444044	20170227
US10165875 BB	20190101	US20170444044	20170227

Priority:

US20160391292P 20160426 US20170444044 20170227

Probable Assignee: MAGNUS INVENT LLC

Assignee(s): (std)**:** MAGNUS INVENT LLC

Assignee(s): MAGNUS INVENTIONS LLC

Inventor(s): (std)**:** ULLOA ALFREDO ; ULLOA ARMANDO

Agent(s): FLORES EDWIN S; CHALKER FLORES LLP

304) Family number: 63564911 (US2018029193A)

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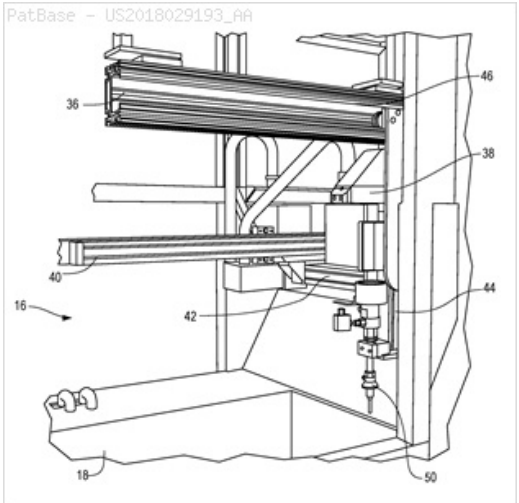
Title: FLUID JET CUTTING DEVICE

Abstract: A fluid jet cutting device (**10**) for sectioning materials is provided. The device includes a compact and portable body (**12**) having an equipment chamber (**14**) accessible through a first panel (**20**), a working chamber (**16**) accessible through a second panel (**22**) and a receptacle (**18**) in communication with the working chamber. A pump assembly (**26**) and motor (**28**) are removably positioned on a base (**32**) in the equipment chamber. A guide assembly (**36**) is positioned in the working chamber and a cutting head (**38**) having a nozzle (**50**) is movably coupled to the guide assembly for movement along three axes. A drive assembly (**52**) moves the cutting head along the guide assembly. A clamp (**56**) for holding a work piece includes a first face (**58**) and a second face (**60**) movable relative to the first face so as to secure regular, irregular or complex shaped work pieces. A basket (**66**) is positioned in the receptacle below the clamp and the device may be controlled by way of a touch screen user interface (**72**).

Classifications:

International (IPC 8-9)**:** B24C1/04 B24C3/00 B24C3/06 B24C3/32 B24C9/00 B26D7/02 B26F3/00 (Advanced/Invention)

CPC: B24C1/045 B24C9/00 B26F3/008 B24C3/00 B24C3/06 B24C3/32 B26D7/02 B26F3/004



Family:

Publication number	Publication date	Application number	Application date
US2018029193 AA	20180201	US20160548624	20160229
US10213899 BB	20190226	US20160548624	20160229
WO16144593 A1	20160915	WO2016US20082	20160229

Priority:

US20150130253P 20150309 US20160548624 20160229 WO2016US20082 20160229

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC

Inventor(s): (std): HABERSTROH JAMES A ; MANGRICH BENJAMIN ; QASSAB AHMAD

Agent(s): LEVENFELD PEARLSTEIN LLC; HAUPTMAN BENJAMIN J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

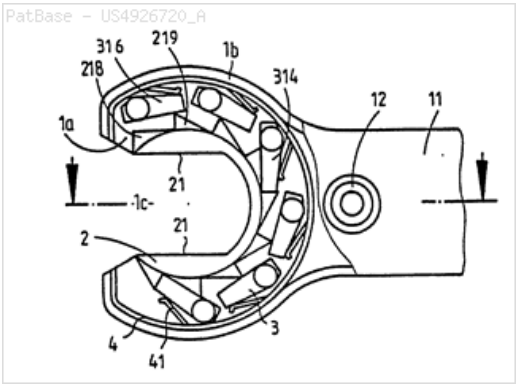
305) Family number: 5294914 (US4926720A)

© PatBase

Title: RACHET SPANNER WITH OPEN MOUTH

Abstract: A ratchet spanner includes a handle; an arcuate jaw-like head connected with the handle, the jaw-like head including a side wall defining a space therein, an upper wall, a lower wall, a plurality of first apertures in the upper wall and a plurality of second apertures in the lower wall in alignment with the first apertures; a plurality of pawls; a plurality of posts, each secured to a respective one of the pawls for pivotally mounting the respective pawl in a first aperture and second aperture in the jaw-like head adjacent the side wall; a ratchet insert member positioned with the space and rotatable with respect to the jaw-like head, the ratchet insert member including a plurality of teeth engageable by the pawls, and spaced gripping surfaces; and a sheet-like arcuate strip of sheet metal positioned against the side wall and a plurality of leaf spring members partially cut-out from the arcuate strip and biased into engagement with the pawls to pivot the pawls into engagement with the teeth.

Classifications:
International (IPC 8-9): B25B13/10 B25B13/46
B25B13/56 (Advanced/Invention);
B25B13/00 (Core/Invention);
B25B (Subclass/Invention)
International (IPC 1-7): B25B13/06 B25B13/46 B25B13/56 B25B15/04
CPC: B25B13/107 B25B13/463
European: B25B13/10D B25B13/46B1B
US: 81/61



Family:

Publication number	Publication date	Application number	Application date
AT47683 E	19891115	AT19860116045T	19861120
AU198770898 A1	19871009	AU19870070898	19870312
CA1300932 A1	19920519	CA19870532028	19870313
DE3610508 A1	19870917	DE19863610508	19860325
DE3666676 D1	19891207	DE19863666676	19861120
DE3731343 A1	19890330	DE19873731343	19870915
DK593687 A	19871112	DK19870005936	19871112
DK593687 A0	19871112	DK19870005936	19871112
EP0237626 A1	19870923	EP19860116045	19861120
EP0237626 B1	19891102	EP19860116045	19861120
FI874995 A	19871112	FI19870004995	19871112
FI874995 A0	19871112	FI19870004995	19871112
JP62277271 A2	19871202	JP19870059092	19870316
KR19887001157 A	19880725	KR19877001057	19870312
NO874725 A	19871112	NO19870004725	19871112
NO874725 A0	19871112	NO19870004725	19871112
NO874725 L	19871112	NO19870004725	19871112
SU1611210 A3	19901130	SU19874202212	19870313
US4926720 A	19900522	US19880256200	19881011
WO8705553 A1	19870924	WO1987EP00145	19870312
WO8902345 A1	19890323	WO1988DE00579	19880914

Priority:

DE19863609118 19860315 DE19863610508 19860325 EP19860116045 19861120
DE19863666676 19861120 US19870024303 19870310 WO1987EP00145 19870312
CA19870532028 19870313 DE19873731343 19870915

Probable Assignee: WOLTER PETER

Assignee(s): (std): GRZANNA KURT ; PEETAA BORUTAA ; WOLTER P ; WOLTER PETER

Assignee(s): WOLTER PETER HOELDERLINSTRASSE ; AUTO K LACK PETER KWASNY AG ; AUTO K TOOL AG

Inventor(s): (std): GRZANNA KURT ; KURT GRZANNA ; KURUTO GURUTSUANA ; GRTSANNA KURT

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; ROBIC

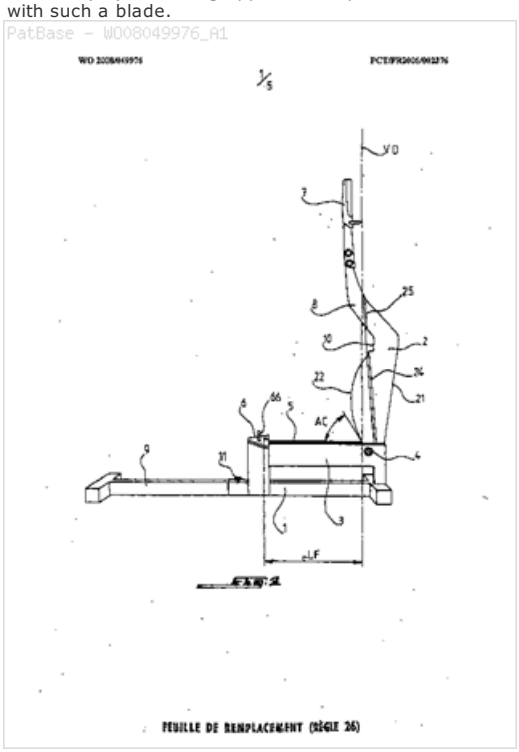
Designated states: AT AU BE CH DE DK ES FI FR GB GR IT JP KR LI LU NL NO SE US

306) Family number: 41775918 (WO08049976A1)

Title: BLADE FOR A CUTTING TOOL FOR CUTTING A PLATE AND TOOL FITTED WITH SUCH A BLADE

Abstract: The present invention relates to a blade for a cutting tool for cutting out a plate, wherein said tool comprises a bearing (3) on which a blade (2) is mounted so as to move between an open position for receiving the plate to be cut out between the bearing (3) and the blade (2) and a closed position at the end of a cut-out, wherein the blade has a backside (21) and a cutting edge (22), is provided with a handle (7), and is mounted on the bearing (3) through an axis (4), characterised in that the blade (2) is flat and is formed with a stabilisation fold (24) extending approximately from the axis (4) to the handle (7). The invention also relates to a cutting tool fitted with such a blade.

Classifications:
International (IPC 8-9): B26D1/30 B26D7/01 (Advanced/Invention); B26D1/01 B26D7/01 (Core/Invention)
CPC: B26D1/0006 B26D1/30 B26D7/00 B26D7/015 B28D1/223
European: B26D1/30 B28D1/22C1 L26D1/00C L26D7/00 L26D7/01C



Family:

Publication number	Publication date	Application number	Application date
DE602006034407 D1	20130321	DE200660034407T	20061023
EP2083972 A1	20090805	EP20060830992	20061023
EP2083972 B1	20130123	EP20060830992	20061023
WO08049976 A1	20080502	WO2006FR02376	20061023

Priority:

EP20060830992 20061023 WO2006FR02376 20061023

Probable Assignee: PIERRE GREHAL ET CIE S A ETS

Assignee(s): (std): MARCON LIONEL ; PIERRE GREHAL ET CIE S A ETS ; PIERRE GREHAL ET CIE SA ETS

Assignee(s): PIERRE GREHAL ET CIE ETS SA ; ETABLISSEMENTS PIERRE GREHAL ET CIE S A ; ETABLISSEMENTS PIERRE GREHAL ET CIE SA

Inventor(s): (std): MARCON LIONEL

Agent(s): PATENTANWAELTE RUFF WILHELM BEIER DAUSTER AND PARTNER MBB; THINAT MICHEL; Thinat Michel; BERGEMANN HARTMUT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

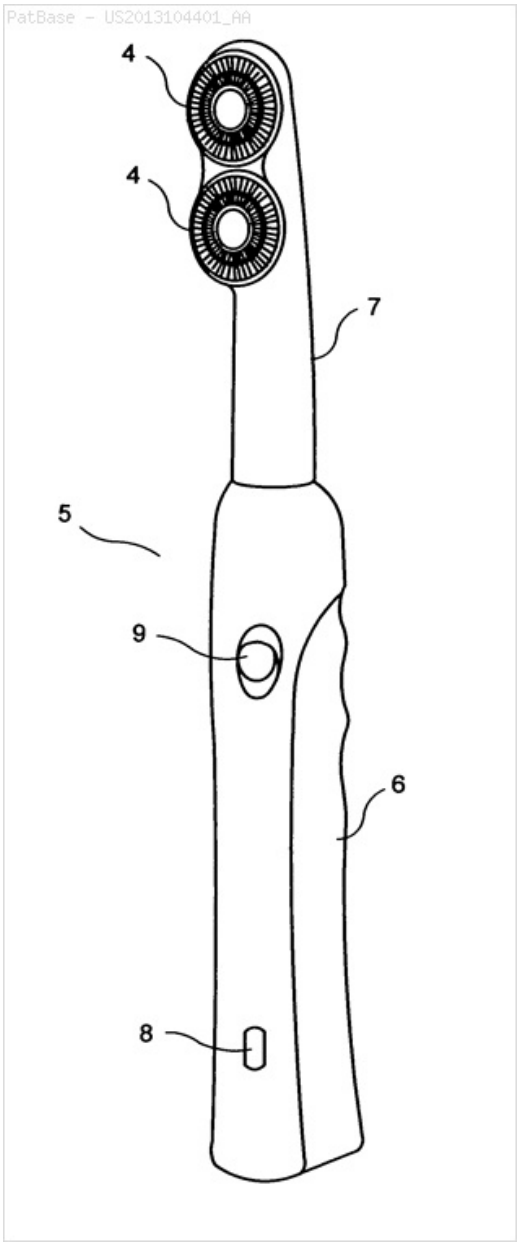
307) Family number: 53651922 (US2013104401A)

Title: ANATOMICALLY CONFigureD RAZOR DEVICE

Abstract: A razor device is configured to shave anatomical regions including the pubic area, the inner buttocks and under the arms of a person's body. The razor device is an electric shaver and includes a razor head containing at least one rotating razor blade which is connected to a handle. The motor and the batteries would preferably be housed in the handle and electrical connections such as wiring would run from the handle to the razor head. The shaver makes it possible to shave unwanted hair form genital regions of a person's anatomy that are not readily accessible with a conventional razor device. The shaver includes a compact slim handle with two separate interchangeable razor heads that are removably connected to the handle at an angle. In another embodiment instead of a single razor head, the razor head would include two rotational razor blades mounted one atop of the other.

Classifications:
International (IPC 8-9): B26B19/14 (Advanced/Invention)
CPC: B26B19/3853 B26B19/148 B26B19/14 B26B19/28 Y10T83/04

US: 30/42 83/13



Family:

Publication number	Publication date	Application number	Application date
US2013104401 AA	20130502	US20110373013	20111102
US2014130642 AA	20140515	US20130073319	20131106

Priority:

US20110373013 20111102 US20130073319 20131106

Probable Assignee: RODRIGUEZ MILLY

Assignee(s): (std)**:** RODRIGUEZ MILLY

Inventor(s): (std)**:** RODRIGUEZ MILLY

308) Family number: 20694926 (US6973931B)

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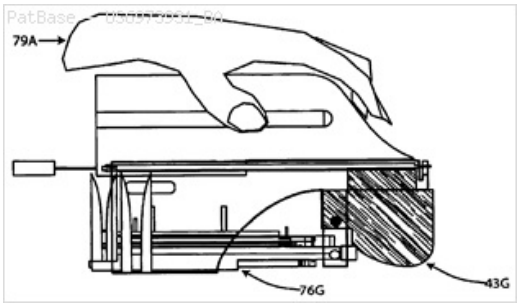
Title: AUTOMATED HAIR ISOLATION AND PROCESSING SYSTEM

Abstract: A device comprised of hair-flow-channel guides continuously moved over the surface of the scalp. A track cap of parallel tracks is placed on the head to guide device's movement over the scalp along non-overlapping rows. At the front of the device is a hair-tensioning straightener that pulls hairs perpendicular to the scalp before and during processing. A bend-under assembly, formed by two pinching conveyer belts, facilitates hair exit from the channels by bending scalp-attached hairs beneath the walls of each hair channel. Intermittent intersection of each channel by an obstructing member isolates one or a few leading hairs for processing and forces trailing hairs to wait their turn for cosmetic processing behind it. Isolated scalp hairs may be cosmetically processed in ways including coloration; cross-section reshaping, hair-extension attachment and removal, and cutting to length according to position along track. Hair extensions removed at one position along a track cap are conveyed to corresponding holding clips and loaded in an order so as to permit their reattachment to the same scalp area. Hair extensions so held can be channeled and isolated for attachment, as are scalp hairs. A bend-under assembly can be used to draw one or a group of isolated hairs longitudinally through the chamber in which they are isolated facilitating cross-sectional reshaping of hairs or cutting to a preprogrammed length. Intersecting member and cosmetic processing actuation synchronized by computer.

Classifications:

International (IPC 8-9): A41G3/00 A41G5/00 A45C3/00 A45D19/02 A45D19/16 A45D24/10 A45D24/34 B26B13/24 B26B19/20 (Advanced/Invention);

A45C3/00 A45D19/00 A45D19/16 B26B13/24 B26B19/38 (Advanced/Non-invention);
A41G3/00 A41G5/00 A45C3/00 A45D19/00 A45D24/00 B26B19/00 (Core/Invention);
B26B13/00 B26B19/38 (Core/Non-invention)
International (IPC 1-7): A41G3/00 A45C3/00 A45D24/10 A45D24/34
CPC: A41G5/0086 A45D19/02 A45D19/16 A45D24/34 A45D2019/0091 A45D2024/345 B26B13/24 B26B19/20 B26B19/38
European: A41G5/00C6 A45D19/02 A45D24/34 B26B19/20 K45D19/00T6S K45D19/16 K45D24/34S L26B13/24 L26B19/38
US: 132/201 132/212



Family:

Publication number	Publication date	Application number	Application date
AU199912903 A1	19990524	AU19990012903	19981030
CA2388886 AA	20020423	CA19982388886	19981030
CA2388886 C	20091020	CA19982388886	19981030
EP1124454 A2	20010822	EP19980956364	19981030
JP2002527631 T2	20020827	JP20000518635T	19981030
US6973931 BA	20051213	US20000530303	20000427
WO9922694 A2	19990514	WO1998US23055	19981030
WO9922694 A3	19990812	WO1998US23055	19981030

Priority:

US19970063574P 19971030 US19980530303 19981030 WO1998US23055 19981030 US20000530303 20000427

Probable Assignee: KING CHRISTOPHER R

Assignee(s): (std): KING CHRISTOPHER R

Assignee(s): CHRISTOPHER R KING

Inventor(s): (std): KING CHRISTOPHER R

Inventor(s): CHRISTOPHER R KING

Agent(s): CHRISTOPHER R KING; NA; SHOJI TAKASHI

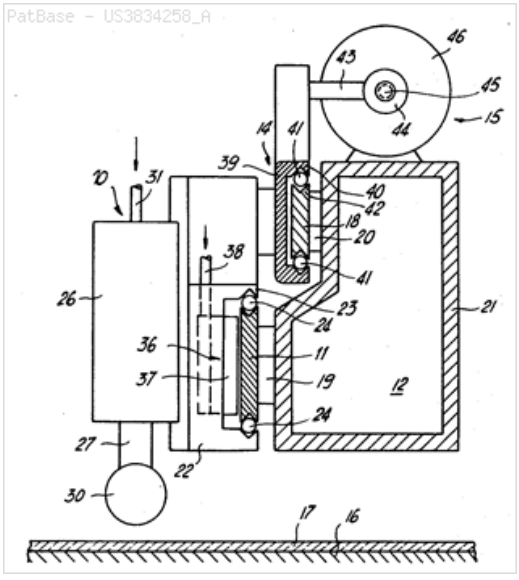
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

309) Family number: 1092930 (US3834258A)

Title: APPARATUS FOR THE SIMULTANEOUS MACHINING OF A MATERIAL MOVING WITH RELATIVE MOTION WITH RESPECT TO THE TOOLS, IN PARTICULAR FOR CUTTING UP A PLATE OF GLASS

Abstract: Apparatus with several tools for the simultaneous machining of a material moving with relative motion with respect to the tools, said apparatus to be used in particular for cutting a glass plate to size and comprising a support table for supporting the material and a bridge extending over said table and carrying several tool carrier units displaceable in longitudinal direction by power drive. There is provided a drive means to drive a displacing means transversely to the direction of machining, the individual tool carrier units being connected through disengageable clutches with said displacing means at preset distances from one another.

Classifications:
International (IPC 8-9): B23D36/00 B26D3/00 B26D3/10 B26D9/00 C03B33/027 C03B33/037 G05B19/40 (Advanced/Invention);
B23D36/00 B26D3/00 B26D9/00 C03B33/00 G05B19/40 (Core/Invention)
International (IPC 1-7): B26D3/00 B26D3/08 B26D5/00 B26D5/02 B26D5/08 B26D7/26 C03B33/00 C03B33/02
CPC: Y10T83/037 Y10T83/166 Y10T83/18 Y10T83/659 Y10T83/6603 Y10T83/7847 Y10T83/7876 C03B33/037 B23D36/0091 C03B33/027 G05B19/40 G05B2219/35426 G05B2219/41249
European: B23D36/00C C03B33/027 C03B33/037 G05B19/40 S05B219/35426 S05B219/41249
US: 83/1.1 83/11 83/425.4 83/433 83/504 83/508.3 83/76.3 83/76.9 83/884



Family:

Publication number	Publication date	Application number	Application date
BE792406 A	19730330		00000000
BE792406 A1	19730330	BE19720125032	19721207
CH559091 A	19750228	CH19720017865	19721207
DE2160545 A1	19730620	DE19712160545	19711207
DE2160545 B2	19750320	DE19712160545	19711207

DE2160545 C3	19751030	DE19712160545	19711207
DK148014 B	19850204	DK19720006104	19721207
DK148014 C	19850708	DK19720006104	19721207
FR2164301 A5	19730727	FR19720043205	19721205
GB1413299 A	19751112	GB19720056421	19721207
IT973848 A	19740610	IT19720054425	19721201
JP1050257 C3	19810626	JP19720123286	19721207
JP48066115 A2	19730911	JP19720123286	19721207
JP55040540 B4	19801018	JP19720123286	19721207
NL168803 B	19811216	NL19720016524	19721206
NL168803 C	19820517	NL19720016524	19721206
NL7216524 A	19730612	NL19720016524	19721206
NL7216524 A1	19730612	NL19720016524	19721206
SE393795 B	19770523	SE19720015909	19721206
SE393795 C	19770901	SE19720015909	19721206
US3834258 A	19740910	US19720312034	19721204

Priority:

DE19712160545 19711207

Probable Assignee: BYSTRONIC MASCH

Assignee(s): (std)**:** BYSTRONIC MASCH

Assignee(s): BYSTRONIC MASCH AG ; BYSTRONIC MASCH BUETZBERG SCHWEIZ AG ; BYSTRONIC MASCH CH AG ; BYSTRONIC MASCH TE BUETZBERG ZWITSERLAND AG ; BYSTRONIC MASCHINEN AG ; BYSTRONIC MASCHINEN AG BUETZBERG SCHWEIZ ; BYSTRONIC MASCHINEN AG CH ; BYSTRONIC MASCHINEN AG INDUSTRIESTRASSE CH 4922 A ; BYSTRONIC MASCHINEN AG TE BUETZBERG ZWITSERLAND ; BYSTRONIC MASCHINEN AG INDUSTRIESTRASSE CH 4922 A G SUISSE

Inventor(s): (std)**:** ZUMSTEIN E ; ZUMSTEIN ERNST

Inventor(s): ZUMSTEIN E CH ; ZUMSTEIN ERNST BUETZBERG SCHWEIZ ; E ZUMSTEIN ; ERNST ZUMSTEIN

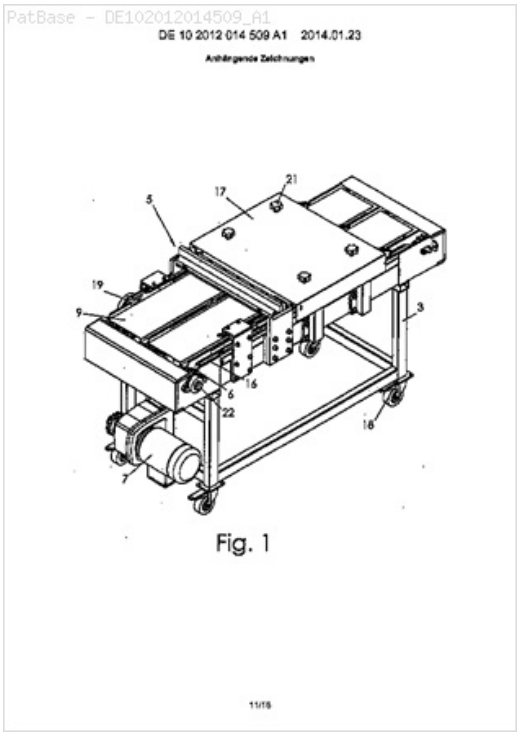
310) Family number: 55664931 (DE102012014509B4)

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Title: Vorrichtung und Verfahren zum Trennen eines Belages von einer Traegerplatte

Abstract: Source: DE102012014509B4 [DE] Vorrichtung zum Trennen eines Belages (2) von einer Traegerplatte (1), insbesondere einer Bodenplatte, umfassend eine aufstellbare Rahmenkonstruktion (3) zur Aufnahme einer wenigstens ein Messer (4) aufweisenden Trenneinrichtung (5) und einer Transporteinrichtung (6), mittels welcher die Traegerplatte (1) der Trenneinrichtung (5) zufuehrbar ist, sowie einen Elektromotor (7) zum Antrieb der Transporteinrichtung (6), wobei das Messer (4) der Trenneinrichtung (5) oberhalb wenigstens einer Platte (8) und/oder wenigstens eines Profils (9) zur Ausbildung einer ein- oder mehrteilig ausgebildeten, horizontalen Auflageflaeche (10) zur Aufnahme der Traegerplatte (1) angeordnet ist, dadurch gekennzeichnet, dass die Platte (8) und/oder das Profil (9) gegenueber dem Messer (4) der Schaeleinrichtung (5) hoehenverstellbar ist bzw. sind.

Classifications:
International (IPC 8-9): B26D3/28 E04G23/00 (Advanced/Invention)
CPC: B26D3/28 B26D5/32 B26D7/01 B26D7/0633 E04F15/02



Family:

Publication number	Publication date	Application number	Application date
DE102012014509 A1	20140123	DE201210014509	20120723
DE102012014509 B4	20151022	DE201210014509	20120723

Priority:

DE201210014509 20120723

Probable Assignee: KIKALEISHVILI MAMUKA

Assignee(s): (std): KIKALEISHVILI MAMUKA

Inventor(s): (std): KIKALEISHVILI MAMUKA

311) Family number: 56727935 (US2014169927A)

Title: MICRO PICK UP ARRAY WITH INTEGRATED PIVOT MOUNT

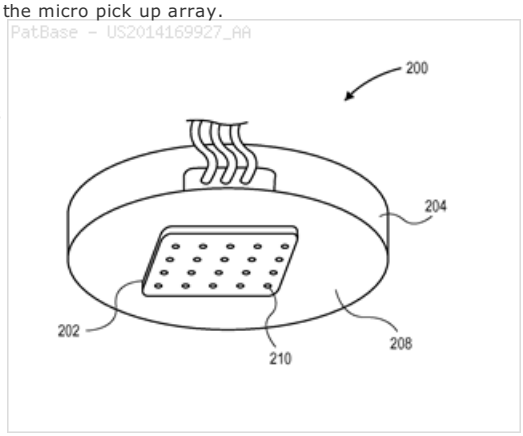
Abstract: Systems and methods for transferring a micro device from a carrier substrate are disclosed. In an embodiment, a micro pick up array structure allows the micro pick up array to automatically align with the carrier substrate. Deflection of the micro pick up array may be detected to control further movement of the micro pick up array.

Classifications:

International (IPC 8-9): B23P19/00 B25J15/00 B25J7/00 B81B7/00 B81C3/00 B81C99/00 H01L21/67 H01L21/677 H01L23/00 H02N13/00 (Advanced/Invention)

CPC: B25J15/0085 B25J7/00 B81C99/002 H01L24/75 H01L2224/7598 Y10T29/53174

US: 1/1 361/234 414/800



Family:

Publication number	Publication date	Application number	Application date
TW201430986 A	20140801	TW20130146161	20131213
US2014169927 AA	20140619	US20120715591	20121214
US9314930 BB	20160419	US20120715591	20121214
WO14093243 A1	20140619	WO2013US73919	20131209

Priority:

US20120715591 20121214

Probable Assignee: APPLE INC

Assignee(s): (std): LUXVUE TECHNOLOGY CORP

Assignee(s): TRIPLEPOINT CAPITAL LLC ; APPLE INC ; COMERICA BANK

Inventor(s): (std): BIBL ANDREAS ; GOLDA DARIUSZ ; HIGGINSON JOHN A

Agent(s): BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; AIKIN JACOB T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

312) Family number: 34353936 (US2008289165A)

Title: DEVICE AND METHOD FOR SEPARATING ELECTRONIC COMPONENTS

Abstract: The invention relates to a method for separating electronic components, comprising the processing steps of placing an assembly of electronic components on a manipulator, transporting the electronic components with the manipulator along a first cutting tool such that the assembly is cut through only partially along cutting lines in the thickness direction thereof, and transporting the partially severed assembly with a manipulator along a second cutting tool such that the cutting lines are severed almost completely. The invention also relates to a device for separating electronic components, and to a separated electronic component obtainable with the method.

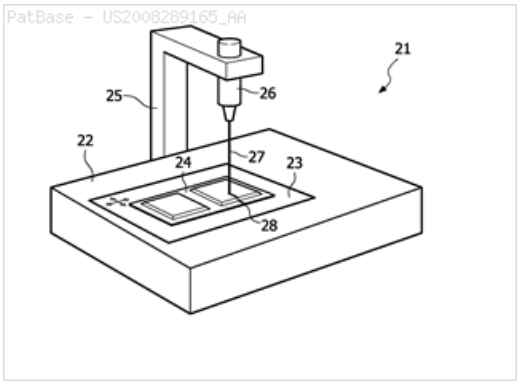
Classifications:

International (IPC 8-9): B23K26/38 B23K26/40 B23P19/02 B26D1/01 B28D5/00 H01L21/00 H01L21/78 (Advanced/Invention); H01L21/00 (Advanced/Non-invention); B23K26/00 B23P19/02 B28D5/00 H01L21/00 H01L21/70 (Core/Invention)

CPC: Y10T29/49821 B23K26/0093 B23K26/0626 B23K26/0853 B28D5/0082 B28D5/024 B65G2249/04 C03B33/023 C03B33/027 C03B33/074 C03B33/091 H01L21/67092 H01L21/78 Y10T29/4979 Y10T29/53274 Y10T225/12 B23K26/40 Y02P40/57 B23K2101/40 B23K2103/52

European: B23K26/00M B23K26/06B B23K26/08E4 B23K26/40B11B12 B23K26/40B6 B28D5/00H6 B28D5/02C3 C03B33/023 C03B33/027 C03B33/07C C03B33/09B H01L21/67S2F H01L21/78 L23K201/40 L65G249/04 T01L21/78

US: 225/2 257/E21.599 257/E21.599S 29/413 29/426.4 29/426.400P 29/762 29/762S 438/462



Family:

Publication number	Publication date	Application number	Application date
CN101263592 A	20080910	CN200680033067	20060919
CN101263592 B	20130911	CN200680033067	20060919
KR20080047614 A	20080529	KR20087009115	20060919

MY164455 A	20171215	MY20080000360	20060919
NL1030004 C2	20070322	NL20051030004	20050922
TW200726612 A	20070716	TW20060134771	20060920
TWI477374 B	20150321	TW20060134771	20060920
TWI477374 B	20150321	TW20060134771	20060920
US2008289165 AA	20081127	US20060065136	20060919
US8677592 BB	20140325	US20060065136	20060919
WO07035097 A2	20070329	WO2006NL50228	20060919
WO07035097 A3	20070510	WO2006NL50228	20060919

Priority:

NL20051029992 20050921 NL20051029992 20050922 NL20051030004 20050922 WO2006NL50228 20060919

Probable Assignee: FICO INT BV

Assignee(s): (std): BESI NETHERLANDS BV ; FICO BV ; FICO SINGULATION B V ; FICO SINGULATION BV ; ZIJL JOANNES LEONARDUS JURRIAN ; WENSINK HENDRIK ; IN T VELD FREDERIK HENDRIK

Assignee(s): FICO INT BV ; FICO B V

Inventor(s): (std): VELD FREDERIK HENDRIK IN T ; WENSINK HENDRIK ; ZIJL JOANNES LEONARDUS JURRIAN ; JURRIAN ZIJL JOANNES LEONARDUS ; HENDRIK WENSINK ; IN T VELD FREDERIK HENDRIK

Inventor(s): JOANNES LEONARDUS JURRIAN ZIJL ; FREDERIK HENDRIK IN T VELD

Agent(s): NIXON AND VANDERHYE PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

313) Family number: 50455936 (WO12004307A1)

© PatBase

Title: TENSIONING ELEMENT, PIPE JOINT, AND TENSIONING TOOL

Abstract: The invention relates to a tensioning element (10) for generating an axial preload in a screwed joint, comprising a first leg and a second leg which are interconnected using a spring element. Both the first leg and the second leg have a through-hole in which the screw can be accommodated. The invention further relates to a pipe joint (30) comprising such a tensioning element (10) as well as to a tensioning tool for preloading such a tensioning element (10).

Classifications:

International (IPC 8-9): B25B27/30 B25B7/02 F16B29/00 F16B31/04 F16F1/02 F16L23/02 (Advanced/Invention)

CPC: B25B7/02 F16B31/04 F16B43/00 F16F1/027 F16L23/0283 F16L23/036 F16L49/04

European: B25B7/02 F16B31/04 F16B43/00 F16F1/02S2 F16L23/028B F16L23/036 F16L49/04

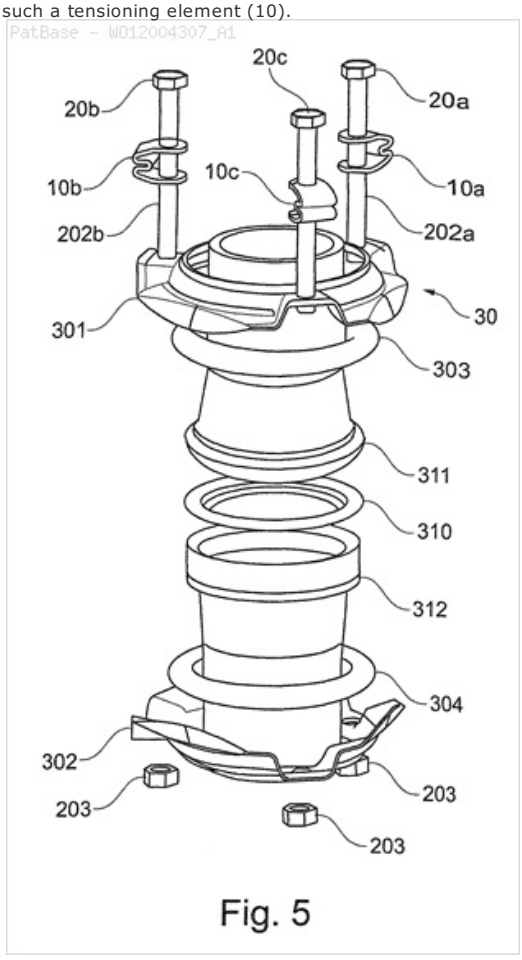


Fig. 5

Family:

Publication number	Publication date	Application number	Application date
DE102010026457 A1	20120112	DE201010026457	20100708
WO12004307 A1	20120112	WO2011EP61418	20110706

Priority:

DE201010026457 20100708

Probable Assignee: DIETRICH PROCESS SYSTEMS GMBH DE

Assignee(s): (std): DIETL STEFFEN ; DIETRICH PROCESS SYSTEMS GMBH DE

Assignee(s): DE DIETRICH PROCESS SYSTEMS GMBH

Inventor(s): (std): DIETL STEFFEN

Agent(s): HAUG DIETMAR ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

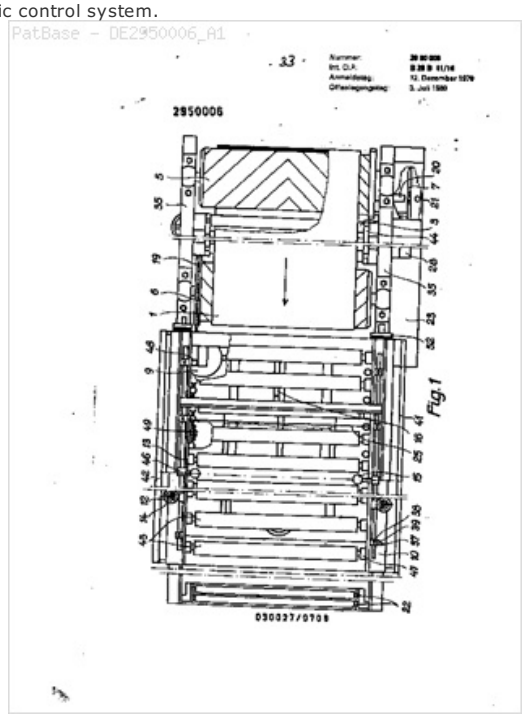
314) Family number: 1762944 (DE2950006A1)

© PatBase

Title: AUTOMATICALLY CUTTING UNFIRED CERAMIC BUILDING PRODUCTS - BY RECIPROCATING CUTTING FRAME WITH CUTTER WIRES CONTROLLED BY PHOTOCELL ON CONVEYOR

Abstract: The automatic cutting machine is for unfired ceramic products used in the building industry. The ceramic strand leaving the press is received on a moving belt and is taken to a cutting frame which reciprocates in the main frame. The frame carries adjustable rollers and tensioners for cutting wires. The belt, or one of its rollers, is provided with a pulse generator, formed, e.g. by a perforated disc a light source and a photocell. The actuation is controlled, e.g. pneumatic cylinders, of the cutting frame and the wire tensioner via an electronic control system.

Classifications:
International (IPC 8-9): B26D3/28 B28B11/14
B28B11/16 (Advanced/Invention);
B26D3/00 B28B11/14 (Core/Invention)
International (IPC 1-7): B26D3/28 B26D4/22 B28B11/14 B28B11/16 B44C3/04 C04B33/04
CPC: B28B11/163 B28B11/166
European: B28B11/16B B28B11/16D



Family:

Publication number	Publication date	Application number	Application date
CS214678 B2	19820528	CS19790008519	19791207
DE2950006 A1	19800703	DE19792950006	19791212
DE2950006 C2	19840510	DE19792950006	19791212
HU177553 P	19811128	HU1978BA03736	19781212
HU181656 B	19831028	HU1979BA03848	19790915
IT1124494 A	19860507	IT19790041665	19791211
IT7941665 A0	19791211	IT19790041665	19791211
SU1044224 D	19830923	SU19792855952	19791211
YU302079 A	19820831	YU19790003020	19791211

Priority:

HU1978BA03736 19781212 HU1979BA03848 19790915

Probable Assignee: BARANYA TOLNAMEGYEI TEGLA ES C

Assignee(s): (std): BARANIA TOLNA MEDEI TEGLA ESH ; BARANIA TOLNA MEGYEI TEGLA ES ; BARANYA TOLNA MEGYEI TEGLA ; BARANYA TOLNA MEGYEI TEGLA ES ; BARANYA TOLNAMEGYEI TEGLA ES C

Assignee(s): BARANYA TOLNA MEGYEI TEGLA ES CSEREPIPARI VALLALAT HU ; BARANYA TOLNA MEGYEI TEGLA ES CSEREPARI VALLALAT PECS HU ; BARANYA TOLNAMEGYEI TEGLA ES CSEREPIPARI VALLALAT HU ; BARANYA TOLNA MEGYEI TEGLA ES CSEREPARI VALLALAT ; BARANYA TOLNAMEGYEI TEGLA ES CSEREPIPARI VALLALAT ; BARANIA TOLNA MEGYEI TEGLA ES CSEREPIPARI VALLALT ; BARANIA TOLNA MEDEI TEGLA ESH CHEREPIPARI VALLALAT INOPREDPRIYATIE

Inventor(s): (std): ANTAL KULCSAR ; KULCSAR A ; KULCSAR ANTAL ; LASZLO TUROCZI ; TUROCZI L ; TUROCZI LASZLO ; TUROTSI LASLO ; KULCHAR ANTAL

Inventor(s): LASLO TUROTSI HU ; ANTAL KULCHAR HU ; TUROCZI LASZLO HU ; KULCSAR ANTAL HU ; KULCSAR ANTAL LAKOTELEP HU

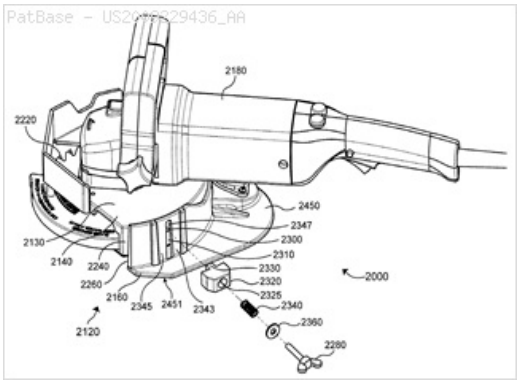
315) Family number: 43747944 (US2009229436A)

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Title: UNDERCUT SAW HEIGHT ADJUSTMENT, HANDLE, BLADE GUARD IMPROVEMENTS

Abstract: An undercut saw including a motor, a drive shaft rotated by the motor, a blade mount mechanically linked to the drive shaft, the blade mount allowing a saw blade to be mounted and a fixed blade guard circumscribing a portion of the saw blade. The fixed blade guard includes a top plate and a height adjustment skirt in telescoping attachment joined by fasteners. A guide washer including a guide washer slot runner is configured to move up and down in a slot on the height adjustment skirt.

Classifications:
International (IPC 8-9): B23D45/16 B23D51/01 B26B25/00 B26D5/00 B27B9/04 (Advanced/Invention); B23D51/00 B26D5/00 B27B9/00 (Core/Invention)
CPC: Y10T83/546 B27B9/02 B27B5/08
European: B27B5/08 B27B9/02
US: 30/371 30/371P 30/373 30/388 30/390 30/390S 30/517 30/517S 83/373 83/373P



Family:

Publication number	Publication date	Application number	Application date
US2009229436 AA	20090917	US20090401839	20090311
US2012204430 AA	20120816	US20120455495	20120425
US8671581 BB	20140318	US20120455495	20120425

Priority:
US20080035704P 20080311 US20090401839 20090311 US20120455495 20120425

Probable Assignee: CRAIN CUTTER CO INC
Assignee(s): (std): CRAIN CUTTER CO INC ; CRAIN CUTTER COMPANY INC ; CRAIN LANCE D ; NGUYEN TAN D
Inventor(s): (std): CRAIN LANCE D ; NGUYEN TAN D
Agent(s): SCHNECK AND SCHNECK; THOMAS

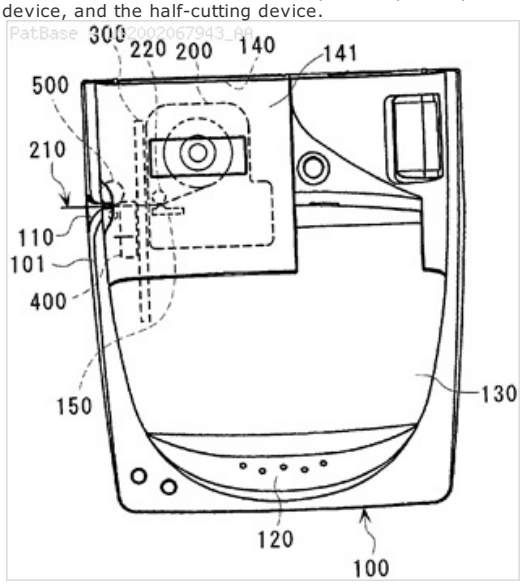
316) Family number: 29730956 (US2002067943A)

© PatBase

Title: TAPE PRINTING APPARATUS

Abstract: A tape printing apparatus is provided which has a high flexibility in the combination of half-cutting and full-cutting, and is capable of cutting a tape material as desired. A tape feeding section feeds a tape material in the form of a laminate of a printing tape and a peel-off paper. A printing section prints on the tape material being fed by the tape feeding means. A full-cutting device is arranged at a location downstream of the printing section in a tape-feeding direction, for cutting off the tape material. A half-cutting device is arranged at a location downstream of the printing device, for carrying out half-cutting to cut off one of the printing tape and the peel-off tape of the tape material. A control section individually and separately controls the tape feeding section, the printing section, the full-cutting device, and the half-cutting device.

Classifications:
International (IPC 8-9): B26D1/30 B41J B41J11/66 B41J11/70 B41J15/04 B41J3/36 B41J3/407 B65H20/02 B65H35/06 (Advanced/Invention); B41J11/66 (Advanced/Non-invention); B26D1/01 B41J11/66 B41J11/70 B41J15/04 B41J3/36 B41J3/407 B65H20/02 B65H35/06 (Core/Invention)
International (IPC 1-7): B26D1/30 B41J B41J11/26 B41J11/66 B41J11/70 B41J15/02 B41J15/04 B41J3/24 B41J3/36 B65H20/02 B65H35/06
CPC: Y10T83/0207 B41J11/666 B41J3/4075
European: B41J11/66P B41J3/407L
US: 101/93.07 400/611 400/613 400/621 83/862



Family:

Publication number	Publication date	Application number	Application date
CN1192900 C	20050316	CN20011041049	20010929
CN1344622 A	20020417	CN20011041049	20010929
HK1045968 A1	20050916	HK20020107352	20021008
HK1045968 B	20050916	HK20020107352	20021008
JP2002104717 A2	20020410	JP20000297850	20000929
JP4452392 B2	20100421	JP20000297850	20000929
KR100396147 B1	20030827	KR20010060397	20010928
KR20020025792 A	20020404	KR20010060397	20010928
TW517008 B	20030111	TW20010124010	20010926

US2002067943 AA	20020606	US20010951896	20010912
US6648532 BB	20031118	US20010951896	20010912

Priority:

JP20000297850 20000929

Probable Assignee: KING JIM CO LTD

Assignee(s): (std)**:** FURUYA YOSHIKIYO ; KING JIM CO LTD ; NAKAMURA TOMOKI ; SEIKO EPSON CORP

Assignee(s): SEIKO EPSON 4 1 NISHI SHINJUKU 2 CHOMESHINJUKU ; KING JIM CO LTD NO 10 18 2 CHOME HIGASHI KANDA CHIYODA KU TOKYO JAPAN ; KING JIM CO

Inventor(s): (std)**:** NAKAMURA TOMOKI ; NAKAMURA TOMONORI ; TOMOKI NAKAMURA ; FURUYA YOSHIKIYO ; YOSHIKIYO KOYA

Inventor(s): KOYA YOSHIKIYO ; YOSHIKIYO FURUYA

Agent(s): CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD WANCHAI

317) Family number: 49343957 (US2013090668A)

© PatBase

Title: HYDRAULIC DEVICE INCLUDING A SPOOL VALVE AND METHOD OF USE THEREOF

Abstract: A spool valve for controlling fluid communication among hydraulic cylinders operating control and slave portions of a surgical device. The spool valve may be used to disconnect the control and the slave portions from one another such that there is no fluid communication between the control and slave portions. The spool valve may be used to engage or allow fluid communication between the control and slave. The spool valve may also be used to allow fluid communication between the slave and control portion and a fluid reservoir, thus allowing the hydraulic system to replenish fluid lost to evaporation, leakage, or other escape. The spool valve includes a body portion having at least two ports and a spool having at least one passageway moveable to a position so as to communicate with the at least two ports.

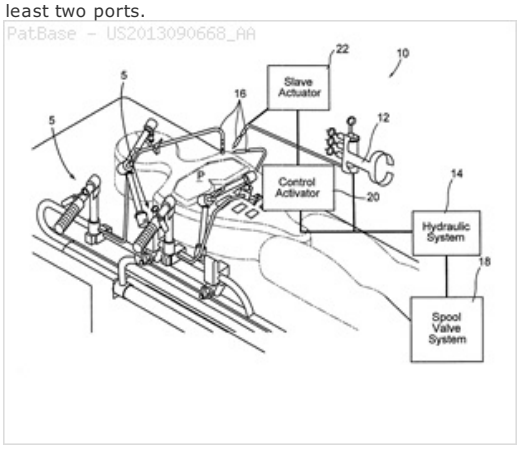
Classifications:

International (IPC 8-9): A61B1/00 A61B19/00 A61B34/30 B25J3/00 F15B13/02 F15B13/04 F16K11/07 F16K3/26 (Advanced/Invention); A61B B25J F15B F16K (Subclass/Invention)

CPC: F16K11/0716 A61B34/30 F15B13/0402 F16K3/26

European: F15B13/04B2 F16K11/07E

US: 1/1 251/282 606/130



Family:

Publication number	Publication date	Application number	Application date
AU2011207349 AA	20110728	AU20110207349	20110121
AU2011207349 AH	20120809	AU20110207349	20110121
BR112012018220 A2	20170627	BR20121118220	20110121
CA2787462 AA	20120718	CA20112787462	20110121
CN102791215 A	20121121	CN201180006734	20110121
EP2525732 A2	20121128	EP20110735241	20110121
EP2525732 A4	20170426	EP20110735241	20110121
EP2525732 B1	20190306	EP20110735241	20110121
IN06591CN2012 A	20131129	IN2012CN06591	20120726
JP2013518222 T2	20130520	JP20120550160T	20110121
MX2012008481 A1	20120817	MX20120008481	20110121
RU2012135657 A	20140227	RU20120135657	20110121
US2013090668 AA	20130411	US20110521195	20110121
US9050121 BB	20150609	US20110521195	20110121
WO11091273 A2	20110728	WO2011US22086	20110121
WO11091273 A3	20111215	WO2011US22086	20110121
ZA201205051 A	20130327	ZA20120005051	20120706

Priority:

US20100297630P 20100122 US20110521195 20110121 WO2011US22086 20110121

Probable Assignee: CAREFUSION 2200 INC

Assignee(s): (std)**:** CAREFUSION 2200 INC ; DOYLE MARK

Inventor(s): (std)**:** DOYLE MARK ; MARK DOYLE

Agent(s): PARISH TARA MS; TJ IP PATENTS TRADE MARKS AND DESIGNS; TJIP PATENTS TRADE MARKS AND DESIGNS; ANGLEHART ET AL; JOHNSON RICHARD ALAN; MEWBURN ELLIS LLP; FURUYA FUMIO; ARENT FOX LLP; BARNEY SETH ET AL

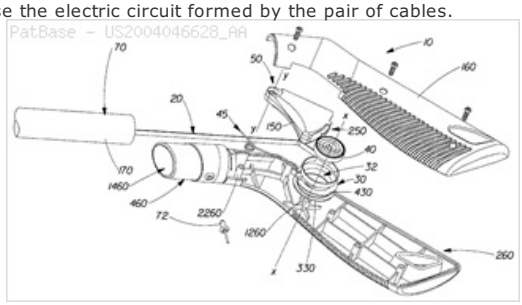
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

318) Family number: 30359959 (US2004046628A)

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Title: DEVICE FOR REMOTELY ACTUATING A MECHANISM

Abstract: The present invention provides an actuating device suitable for remotely actuating a tool which can be the fluid delivery mechanism of a cleaning implement. The actuating device has a flexible tape attached at one end to a spring-loaded spool mechanism connected to a trigger where the spring loaded spool mechanism is located within a housing for holding the device. The tape is threaded through at least one pole segment and is attached to a tool which can be actuated by a pulling or pushing motion of the tape. The present invention also provides a pair of electric cables which are attached at one end to the spring-loaded spool and at the other end to an electric tool or device such as a motor for driving a pump. An electric switch, which is located on the housing of a pistol-grip, is used to close the electric circuit formed by the pair of cables.



Classifications:
International (IPC 8-9): A47L11/03 A47L13/22 B08B13/00 B08B3/00 B25G1/04 H01H3/20 (Advanced/Invention);
A47L13/22 B25G1/04 H01H3/36 H01H9/06 (Advanced/Non-invention)
International (IPC 1-7): A47L11/03 A47L13/22 B08B13/00 B08B3/00 B25G1/04 H01F21/04
CPC: H01H3/36 H01H9/06 A47L13/22 B25G1/04
European: A47L13/22 B25G1/04 T01H3/36 T01H9/06
US: 200/332 200/522 336/115 336/115P

Family:

Publication number	Publication date	Application number	Application date
AU2003268561 AA	20040329	AU20030268561	20030909
CA2496602 AA	20050222	CA20032496602	20030909
CA2496602 C	20081125	CA20032496602	20030909
CN100415150 C	20080903	CN20038021388	20030909
CN1681430 A	20051012	CN20038021388	20030909
EP1536724 A2	20050608	EP20030749533	20030909
JP2005537922 T2	20051215	JP20040534785T	20030909
JP4069983 B2	20080402	JP20040534785T	20030909
KR100654596 B1	20061208	KR20057003955	20030909
KR20050057264 A	20050616	KR20057003955	20030909
MXPA05002609 A1	20050505	MX2005PA02609	20030909
US2004046628 AA	20040311	US20030658007	20030909
US7038154 BB	20060502	US20030658007	20030909
WO04021852 A2	20040318	WO2003US28173	20030909
WO04021852 A3	20040422	WO2003US28173	20030909

Priority:
US20020409261P 20020909 US20030658007 20030909 WO2003US28173 20030909

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; SPOONER GREGORY CLEGG ; VONG HOSS ; CURTIS TERENCE GRAHAM ; FAYETTE THIBAULT ; HOFTE PAULUS ANTONIUS AUGUSTINUS ; KELLER LEONARD JOSEPH JR

Inventor(s): (std): AUGUSTIN HOFTE PAULUS ANTONIUS ; CLEGG SPOONER GREGORY ; GRAHAM CURTIS TERENCE ; HOEFTE PAULUS ANTONIUS AUGUSTI ; HOSS VONG ; JOSEPH KELLER LEONARD ; KELLER JR LEONARD JOSEPH ; THIBAULT FAYETTE ; VONG HOSS ; TERENCE GRAHAM CURTIS ; SPOONER GREGORY CLEGG ; PAULUS ANTONIUS AUGUSTINUS HOFTE ; LEONARD JOSEPH JR KELLER ; KELLER LEONARD JOSEPH JR ; KELLER LEONARD JOSEPH ; HOFTE PAULUS ANTONIUS AUGUSTINUS ; HOFTE PAULUS ANTONIUS AUGUSTIN ; GREGORY CLEGG SPOONER ; FAYETTE THIBAULT ; CURTIS TERENCE GRAHAM

Inventor(s): JR LEONARD JOSEPH ; KELLER ; HOEFTE PAULUS ANTONIUS AUGUSTINUS

Agent(s): DIMOCK STRATTON LLP; STEVEN W; THIBAULT; KIM WILLIAM

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

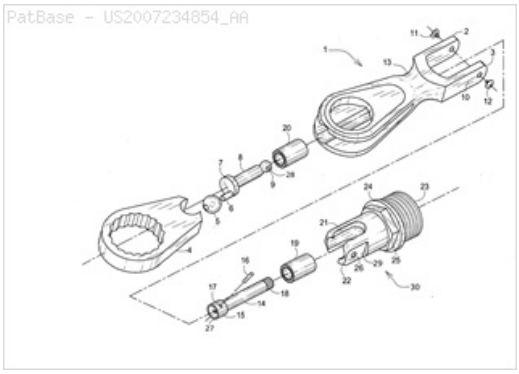
319) Family number: 39333959 (US2007234854A)

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Title: BENDABLE-HEAD POWER RATCHET TOOL

Abstract: A bendable-head power ratchet tool is described in which a conventional motor body is connected to a conventional socket head ratchet mechanism by a unique two-piece split-shaft the pieces of which articulate in the Z-axis while delivering torque. The driveshaft and foreshaft are coupled by a pivotable shaft coupling made from a simple and rugged slotted ball with wristpin in mating socket. Surprisingly simple, the pivotable shaft coupling may be assembled by merely dropping the foreshaft onto the driveshaft in place in the housing. Such ratchet tools may be pneumatic or electric. A preferred embodiment is an air-powered bendable head ratchet wrench.

Classifications:
International (IPC 8-9): B25B21/00 (Advanced/Invention);
B25B21/00 (Core/Invention)
CPC: B25B21/004 B25G1/063
European: B25B21/00D B25G1/06S
US: 81/58.1 81/58.100P



Family:

Publication number	Publication date	Application number	Application date
US2007234854 AA	20071011	US20070807430	20070529

Priority:

US20050272839 20051113 US20070712820 20070301 US20070807430 20070529

Probable Assignee: COLLINS RONNY

Assignee(s): (std)**:** COLLINS RONNY

Inventor(s): (std)**:** COLLINS RONNY

Agent(s): LAMBERT AND ASSOCIATES

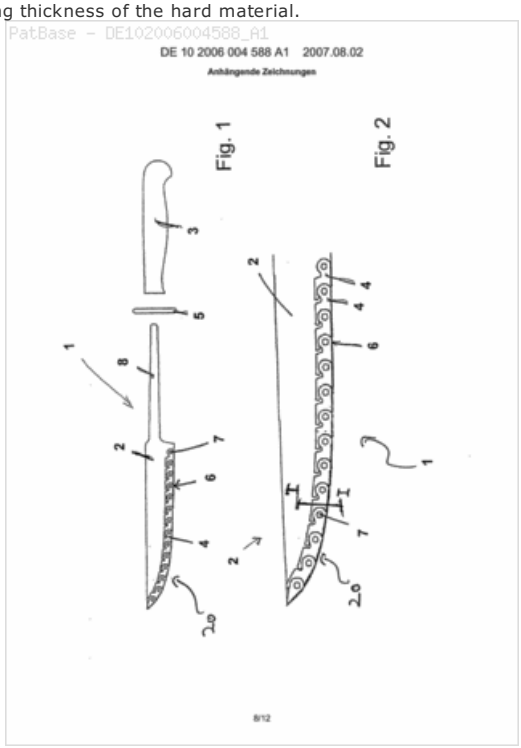
320) Family number: 34957962 (DE102006004588A1)

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Title: KNIFE USED IN HOMES, RESTAURANTS AND HOTELS COMPRISES HARD MATERIAL CUTTING ELEMENT ARRANGED ON BLADE-LIKE BASE BODY AND FORMING CUTTING EDGE

Abstract: A knife (1) comprises a hard material cutting element (20) arranged on a blade-like base body (2) and forming a cutting edge (6). Preferred Features: The cutting element comprises a hard material layer arranged on a support and the cutting edge is formed by a structured profile with a decreasing cutting thickness of the hard material.

Classifications:
International (IPC 8-9): B26B9/00 (Advanced/Invention); B26B9/00 (Core/Invention)
CPC: B26B3/00 B26B9/02 B26B9/00
European: B26B3/00 B26B9/00



Family:

Publication number	Publication date	Application number	Application date
DE102006004588 A1	20070802	DE200610004588	20060201

Priority:

DE200610004588 20060201

Probable Assignee: WMF WUERTTEMBERG METALLWAREN

Assignee(s): (std)**:** WMF WUERTTEMBERG METALLWAREN

Assignee(s): WMF WUERTTEMBERGISCHE METALLWARENFABRIK AG

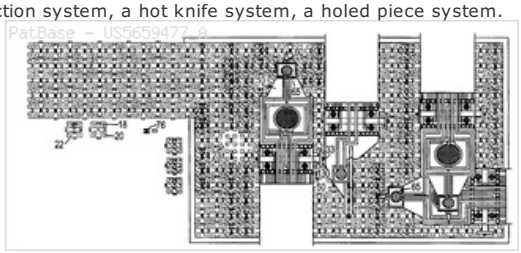
Inventor(s): (std)**:** ABELE WERNER ; BOERNER CORNELIUS ; BRUNNER WERNER ; HERCHEL MARKUS ; NEUMAYER MARTIN ; SCHNOETZINGER FRANK

321) Family number: 30241967 (US5659477A)

Title: SELF REPRODUCING FUNDAMENTAL FABRICATING MACHINES (F-UNITS)

Abstract: A system of units for constructing or replicating a structure (10,10,10...) including diverse materials consisting of a plurality of pieces (20, 22, 23, 156-165) having at least one indicia (18) thereon for detection thereof, at least one adjoining structure functioning according to instructions of a computer program of a processor for adjoining in any predetermined relation with other of the plurality of the pieces (20, 22, 23, 156-165), and the processor (30, 120, 166, 167) having the computer program instructions being responsive to detection of the at least one indicia to provide for arranging the other of the plurality of the pieces in the predetermined relation for controlling the fabrication system in assembling a given number of the plurality of the pieces in the predetermined relation to comprise a produced fabrication structure (10,10,10...) are selected from a group consisting of a puzzle piece system, a construction system, a hot knife system, a holed piece system.

Classifications:
International (IPC 8-9): B25J9/16 G06F19/00 (Advanced/Invention); B25J9/16 (Core/Invention)
International (IPC 1-7): G06F19/00
CPC: G06F19/00 B25J9/1617 G05B2219/40261
European: B25J9/16K1 S05B219/40261
US: 364/468.01 364/468.24 700/117 700/95



Family:

Publication number	Publication date	Application number	Application date
AU199646893 A1	19960719	AU19960046893	19951228
US5659477 A	19970819	US19940364926	19941228
US5764518 A	19980609	US19960757005	19961125
WO9620453 A1	19960704	WO1995US16922	19951228

Priority:

US19940364926 19941228 WO1995US16922 19951228 US19960757005 19961125

Probable Assignee: COLLINS CHARLES M

Assignee(s): (std): CHARLES M COLLINS ; COLLINS CHARLES M

Assignee(s): COLLINS CHARLES MICHAEL

Inventor(s): (std): COLLINS CHARLES M ; COLLINS CHARLES MICHAEL ; CHARLES M COLLINS

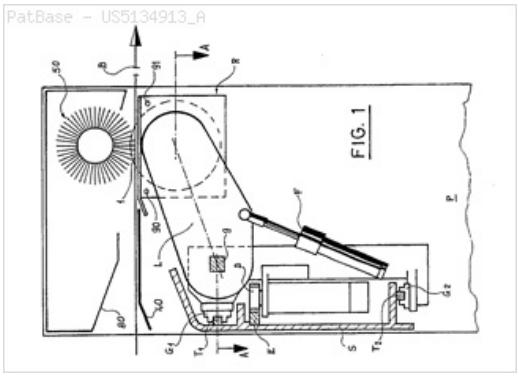
Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

322) Family number: 18757969 (US5134913A)

Title: SLITTING MACHINE FOR TRAVELLING WEBS

Abstract: A machine which is constructed for slitting travelling webs, such as corrugated boards or similar material, characterized by a slitting tool with the shape of a thin rotary blade, which is provided with a cutting peripheral edge. The rotary blade is contained within a holder so that only a small portion of the cutting edge will emerge from a narrow slot in a wall of the holder, which wall is placed very close to the path of the web. The holder also contains a liquid for cooling and lubricating the rotary blade.

Classifications:
International (IPC 8-9): B23Q11/08 B23Q11/10 B26D1/14 B26D1/16 B26D1/18 B26D1/22 B26D3/12 B26D7/00 B26D7/08 B26D7/10 B31B1/18 B31B50/18 (Advanced/Invention); B23Q11/08 B23Q11/10 B26D1/01 B26D7/08 B31B1/14 (Core/Invention)
International (IPC 1-7): B26D1/14 B26D1/16 B26D1/18 B26D1/22 B26D3/12 B26D7/00 B26D7/08 B26D7/08 B26D7/10 B26D7/8 B31B1/18 B31F1/22 B65H35/02 D06H7/04
CPC: Y10T83/263 Y10T83/293 Y10T83/7793 Y10T83/8749 B23Q11/10 B23Q11/08 B26D1/22 B26D7/088 B26D7/10
European: B23Q11/08 B23Q11/10 B26D1/22 B26D7/08D B26D7/10
US: 83/169 83/171 83/491 83/564



Family:

Publication number	Publication date	Application number	Application date
AT113889 E	19941115	AT19910101855T	19910211
AU199171232 A1	19910822	AU19910071232	19910220
AU639531 B2	19930729	AU19910071232	19910220
BRPI9100697 A	19911029	BR1991PI00697	19910221
CA2036684 AA	19910822	CA19912036684	19910220
CA2036684 C	19960924	CA19912036684	19910220
CH682645 A	19931029	CH19900000566	19900221
DE69105006 D1	19941215	DE19916005006	19910211
DE69105006 T2	19950330	DE19916005006	19910211
EP0443396 A2	19910828	EP19910101855	19910211
EP0443396 A3	19920108	EP19910101855	19910211
EP0443396 B1	19941109	EP19910101855	19910211
ES2065560 T3	19950216	ES19910101855T	19910211
JP2074913 C3	19960725	JP19910112646	19910221
JP4226887 A2	19920817	JP19910112646	19910221
JP7112678 B4	19951206	JP19910112646	19910221

US5134913 A	19920804	US19910658785	19910221

Priority:

CH19900000566 19900221 CA19912036684 19910220

Probable Assignee: PETERS MASCHF GMBH

Assignee(s): (std)**:** PETERS MASCHF GMBH ; PETERS W MASCHF ; PETERS MASCHINENFABRIK GMBH ; PETERS MASCHINENFABRIK G M B H ; PEETAASU MAS FAB GMBH ; PEETAASU MASCHF GMBH ; PETERS MACHINENFABRIK GMBH

Assignee(s): PETERS MASCH ; PETERS MASCHINENFABRIK GMBH 2000 HAMBURG DE ; PETERS MASCHINENFABRIK GESELLSCHAFT MIT BESCHRANKTER HAFTUNG ; SCHROEDER LOTHAR ; PETERS MASCHF GMBH 2000 HAMBURG DE ; PETERS MASCHF GMBH HAMBURG A GERMAN CORP

Inventor(s): (std)**:** LOTHAR SCHROEDER ; ROTAA SHIYUREEDAA ; ROTAA SHUREEDAA ; SCHROEDER LOTHAR

Inventor(s): SCHROEDER LOTHAR W 2200 ALTENMOOR DE

Agent(s): SMART AND BIGGAR

Designated states: AT BE DE DK ES FR GB IT LU NL SE

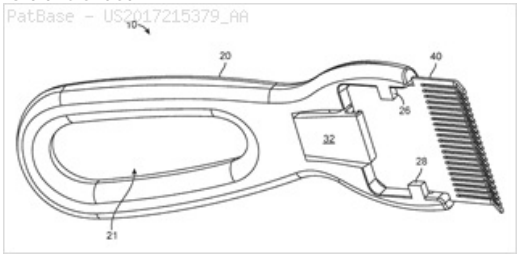
323) Family number: 66514970 (US2017215379A)

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Title: PET COMB

Abstract: A pet comb is disclosed that includes a handle and a comb blade coupled to the handle, the comb blade having a plurality of resilient tines, wherein at least one of the plurality of tines is blunt-ended.

Classifications:
International (IPC 8-9): A01K13/00 B25G3/00 (Advanced/Invention)
CPC: A01K13/002 B25G3/04



Family:

Publication number	Publication date	Application number	Application date
US2017215379 AA	20170803	US20160079665	20160324

Priority:

US20160288814P 20160129 US20160079665 20160324

Probable Assignee: HADDEN DAVID

Assignee(s): (std)**:** HADDEN DAVID

Inventor(s): (std)**:** HADDEN DAVID

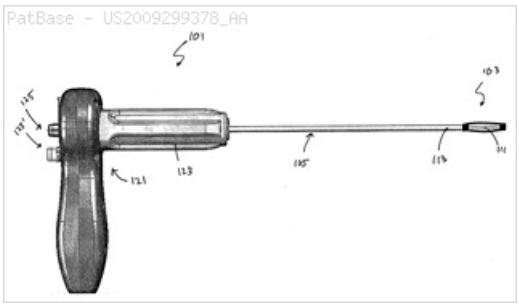
324) Family number: 44051971 (US2009299378A)

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Title: CONTROLLED DEPLOYMENT HANDLES FOR BONE STABILIZATION DEVICES

Abstract: Described herein are applicators for the delivery and/or retrieval of a bone stabilization device, as well as systems or kits including such applicators. In general, these applicators include a proximal handle and an elongate cannula configured as a linkage member connecting to the implant. The handles described herein typically include a control for regulating/controlling the release of the stabilization device. Stabilization devices are typically self-expanding devices, and the control may regulate the self-expansion so that the rate and degree of self-expansion allowed is regulated. The handles may be lockable, and may include a latch or other locking structure. These handles may also include ratcheting mechanism or other controlled expansion/release mechanism. In some variations the devices include a failsafe release configured to release either the applicator and/or the device.

Classifications:
International (IPC 8-9): A61B17/28 A61B17/34 A61B17/88 A61F11/00 B25B15/04 (Advanced/Invention); A61B17/28 A61B17/34 A61B17/88 A61F11/00 B25B15/00 (Core/Invention)
CPC: A61B17/8811 A61B17/8819 A61B17/8858 B25B13/463 B25B15/04 B25B23/0042
European: A61B17/88A2C A61B17/88A2G A61B17/88C2D B25B13/46B1B B25B15/04 B25B23/00A5
US: 606/108 606/108P 81/58 81/58S



Family:

Publication number	Publication date	Application number	Application date
CA2726585 AA	20091210	CA20092726585	20090602
EP2296571 A2	20110323	EP20090759234	20090602
US2009299378 AA	20091203	US20090476924	20090602
WO09149074 A2	20091210	WO2009US45958	20090602
WO09149074 A3	20100325	WO2009US45958	20090602

Priority:

US20080058157 20080602 US20080058157P 20080602 US20090142552P 20090105
US20090142552 20090105 US20090476924 20090602 WO2009US45958 20090602

Probable Assignee: SPINEALIGN MEDICAL INC

Assignee(s): (std): BOJANOWSKI BART ; CHIRICO PAUL E ; KNOPP PETER ; KNOPP PETER G ; SPINEALIGN MEDICAL INC

Inventor(s): (std): KNOPP PETER ; CHIRICO PAUL E ; BOJANOWSKI BART ; KNOPP PETER G

Agent(s): SMART AND BIGGAR; DEE IAN MARK; SHAY GLENN LLP; SHOOP RICHARD D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

325) Family number: 29958976 (EP0537506A1)

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Title: TOOL CARRIER FOR A TILE CUTTING DEVICE.

Abstract: The system embodied by tool carrier (1), is comprised by a second class lever, which is rendered valuable, by a self-pointing device (6, 6', 4): the pair of rollers (6, 6'), which conventionally limited the dropping of the tool carrier (1), is rendered mobile and sliding, with its axle (4), along a groove (8), under the control of a spring (8'), whose power is sufficient to keep it up. This makes the wheel (5), comprising the fulcrum of the system, to come into contact with the bottom side (9), of the guide (9') observing the excursion limit provided by a rod (7). A head section (90) of the body, suitably provided with brake-block means (R and less than R), absorb and dissipates the power remained. Such means (60) are arranged so that the self-collision between the indentation (R and less than R) or brake-blocks (166, 166'), and the pair of wheels (6, 6') of radius R, being mobilized, provide a braking effect.

Classifications:
International (IPC 8-9): B28D1/22 (Advanced/Invention);
B28D1/22 (Core/Invention);
B26D (Subclass/Invention)
International (IPC 1-7): B26D B28D1/22
CPC: B28D1/225
European: B28D1/22D

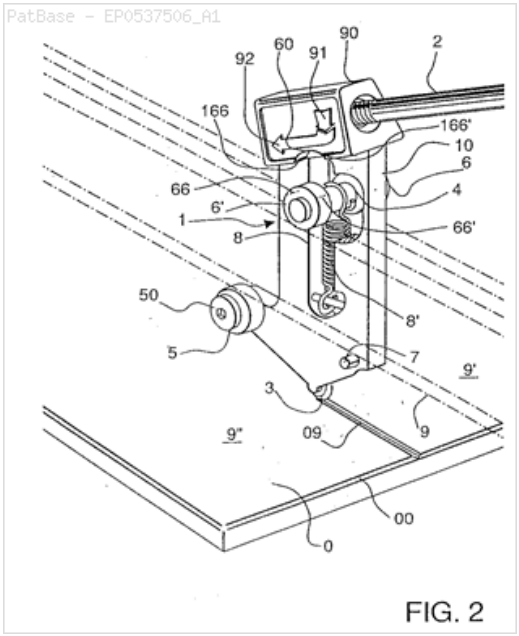


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
AT219715 E	20020715	AT19920116115T	19920921
DE69232654 D1	20020801	DE19926032654	19920921
DE69232654 T2	20030220	DE19926032654T	19920921
EP0537506 A1	19930421	EP19920116115	19920921
EP0537506 B1	20020626	EP19920116115	19920921
ES2176182 T3	20021201	ES19920116115T	19920921
IT1253422 B	19950808	IT1991VA00031	19910920
ITVA910031 A0	19910920	IT1991VA00031	19910920
ITVA910031 A1	19930321	IT1991VA00031	19910920

Priority:

IT1991VA00031 19910919 IT1991VA00031 19910920

Probable Assignee: MONTOLIT BREVETTI

Assignee(s): (std): BREV MONTOLIT ; MONTOLIT BREVETTI

Assignee(s): BREVETTI MONTOLIT ; BREVETTI MONTOLIT S P A ; BREVETTI MONTOLIT S P A CANTELLO

Inventor(s): (std): MONTOLI VINCENZO ; CASARTELLI LUIGI

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

326) Family number: 55156976 (US2014076642A)

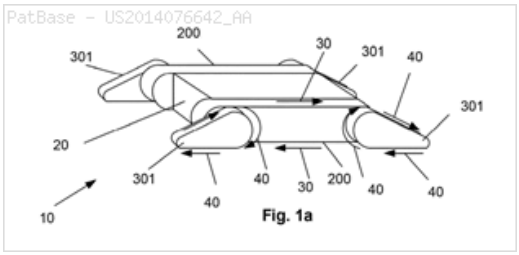
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Title: ROBOTIC SYSTEM AND METHODS OF USE

Abstract: A robotic system that can have a body and four flippers is described. Any or all of the flippers can be rotated. The flippers can have self-cleaning tracks. The tracks can be driven or passive. The robotic system can be controlled by, and send audio and/or video to and/or from, a remote operator control module. The methods of using and making the robotic system are also described.

Classifications:
International (IPC 8-9): B25J19/00 B25J5/00 B60K11/06 B62D55/06 B62D55/065 B62D55/075 B62D55/08 B62D55/088

B62D65/02 (Advanced/Invention);
B62D55/075 (Advanced/Non-invention)
CPC: B62D65/02 B25J5/005 B25J19/0054 B62D55/06 Y10S901/01 B62D55/075 B60K11/06 B62D55/065 Y10T29/49826
US: 1/1 180/9.1 180/9.32 29/428 901/1



Family:

Publication number	Publication date	Application number	Application date
CN104428197 A	20150318	CN201380013302	20130111
TW201345776 A	20131116	TW20130101422	20130114
US2014076642 AA	20140320	US20130740928	20130114
US2015021108 AA	20150122	US20140335189	20140718
US9050888 BB	20150609	US20130740928	20130114
WO13169312 A1	20131114	WO2013US21216	20130111

Priority:

US20120586238P 20120113 WO2013US21216 20130111 US20130740928 20130114 US20140335189 20140718

Probable Assignee: ROBOTEX INC

Assignee(s): (std): ROBOTEX INC

Inventor(s): (std): APPLEBY JON ; GAWLOWSKI MATTHEW ; GETTINGS ADAM M ; GETTINGS NATHAN D ; PENN TAYLOR J ; SCHNEIDER MICHAEL ; SILER EDWARD JOHN III ; SILER EDWARD JOHN LLL ; SILER III EDWARD JOHN ; STEVENS ANDREW G

Agent(s): LEVINE BAGADE HAN LLP; LEVINE DAVID A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

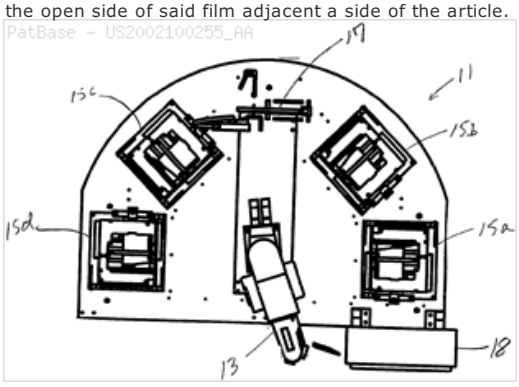
327) Family number: 30008979 (US2002100255A)

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Title: METHOD OF AND SYSTEM FOR PACKAGING ARTICLES

Abstract: A system for packaging articles, such as stacks of greeting cards or the like, includes an article handler, a group of film handlers, and a side sealer. Each of the film handlers includes a film roll holder, which is adapted to hold a roll of folded over film having a closed side and an open side. The film handler also includes a film holding arrangement adapted to hold open the film along an open side, and cross cutter including an end cutting and sealing blade arrangement positioned transverse to the length of the film and adapted to cut and seal an end of the film adjacent an end of an article. The article handler is positioned adjacent the film handlers. The article handler is adapted to deliver an article to a film handler selected to have a film width greater than the width of the article and to insert the article into the film holding arrangement of the selected film handler through the open side of said film and move the article and film past the cross cutter, whereupon the end cutting and sealing blade is actuated to cut and seal said film adjacent an end of the article. The side sealer includes a side cutting and sealing blade arrangement positioned cut to and seal the open side of said film adjacent a side of the article.

Classifications:
International (IPC 8-9): B31B1/26 B31B49/02 B31B50/00 B31F1/00 B31F1/08 B41F21/08 B41L21/10 B44B5/00 B44C1/24 B44C3/08 B65B5/02 B65B9/06 B65B9/073 B65H15/00 B65H29/04 B65H45/18 B65H45/20 B65H9/00 G06F19/00 G06Q30/00 G06Q30/06 (Advanced/Invention);
B31B49/00 B31F1/00 B44B5/00 B44C1/00 B44C3/00 B65B9/06 B65H9/00 G06F19/00 G06Q30/00 (Core/Invention)
International (IPC 1-7): B25J1/00 B25J15/00 B25J19/00 B25J3/00 B31B1/26 B31B49/02 B31F1/08 B31F7/00 B44C1/24 B44C3/08 B65B43/26 B65B5/02 B65B9/12 B65H15/00 B65H29/00 B65H45/18 B65H45/20 B65H9/00 G06F17/60 G06F19/00 G21C1/00
CPC: B31F1/0009 B65B9/073 B65B25/14 B65B61/005 B65H15/00 B65H2301/33212 B65H2301/33224 B65H2404/34 G06Q10/087 G07F17/26 G06Q30/06 G06Q30/0633 G06Q30/0641 Y10T483/1729 Y10T483/1809 Y10T483/1818 B44B5/0071 B31F2201/0702 B44B5/0076 Y10T83/8703
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US: 101/29 101/31 271/185 271/186 271/204 414/1 483/28 483/59 483/60 493/141 493/143 493/405 493/413 493/418 493/448 493/45 493/450 53/452 53/511 53/548 53/550 53/564 700/100 700/100P 700/95 700/95S 705/26.8 705/26.800P 705/27 705/27.1 705/27.100S 705/27P 83/532



Family:

Publication number	Publication date	Application number	Application date
AU2002236956 AA	20020812	AU20020236956	20020130
AU2002240227 AA	20020812	AU20020240227	20020130
AU2002242076 AA	20020812	AU20020242076	20020130
AU2002331765 AA	20030324	AU20020331765	20020829
AU2002332743 AA	20030414	AU20020332743	20020829
CA2436769 AA	20030730	CA20022436769	20020130
CA2436771 AA	20030730	CA20022436771	20020130
CA2437130 AA	20030730	CA20022437130	20020130
EP1368232 A1	20031210	EP20020707683	20020130
EP1368266 A1	20031210	EP20020703327	20020130

EP1368266 A4	20050921	EP20020703327	20020130
EP1372944 A2	20040102	EP20020706120	20020130
US2002100255 AA	20020801	US20010775538	20010201
US2002103068 AA	20020801	US20010775539	20010201
US2002152001 AA	20021017	US20020092288	20020306
US2002152137 AA	20021017	US20010834466	20010413
US2003002956 AA	20030102	US20010775311	20010201
US2003050163 AA	20030313	US20010951144	20010913
US2003050164 AA	20030313	US20010951145	20010913
US6612974 BB	20030902	US20010775539	20010201
US6629404 BB	20031007	US20010775538	20010201
US6676587 BB	20040113	US20010951145	20010913
US6786482 BB	20040907	US20010775311	20010201
WO02060678 A2	20020808	WO2002US03106	20020130
WO02060678 A3	20021107	WO2002US03106	20020130
WO02060678 C2	20021227	WO2002US03106	20020130
WO02060756 A1	20020808	WO2002US03104	20020130
WO02060794 A1	20020808	WO2002US03105	20020130
WO03022601 A1	20030320	WO2002US27643	20020829
WO03029024 A1	20030410	WO2002US27648	20020829

Priority:

US20010775311 20010201	US20010775538 20010201	US20010775539 20010201
US20010834466 20010413	US20010951145 20010913	US20010951144 20010913
WO2002US03106 20020130	WO2002US03105 20020130	WO2002US03104 20020130
US20020092288 20020306	WO2002US27648 20020829	WO2002US27643 20020829

Probable Assignee: HALLMARK CARD INC

Assignee(s): (std)**:** HALLMARK CARDS ; HOOPER DENNIS L ; SPATZ JEFFREY M ; SMITH RONALD R ; SCHIMKE SCOTT A

Assignee(s): HALLMARK CARD INC ; HALLMARK CARDS INC ; MCANANY ROBERT E ; HALLMARK CARDS INCORPORATEED

Inventor(s): (std)**:** BARRINGTON BETH A ; DENNIS ERIN C ; GORDON RICHARD R ; DICKEY LORI A ; GRUNDVIG MICHAEL C ; DENNIS L HOOPER ; MCANANY ROBERT E ; HOOPER DENNIS L ; KNIPP RANDALL S ; LINDQUIST WESLEY D ; MAURO ALBERT P ; LIPNICKY PATRICIA M ; KROUCH SCOTT R ; SCHIMKE SCOTT A ; SPATZ JEFFREY M ; SMITH RONALD R

Agent(s): MBM AND CO; MBM INTELLECTUAL PROPERTY LAW LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

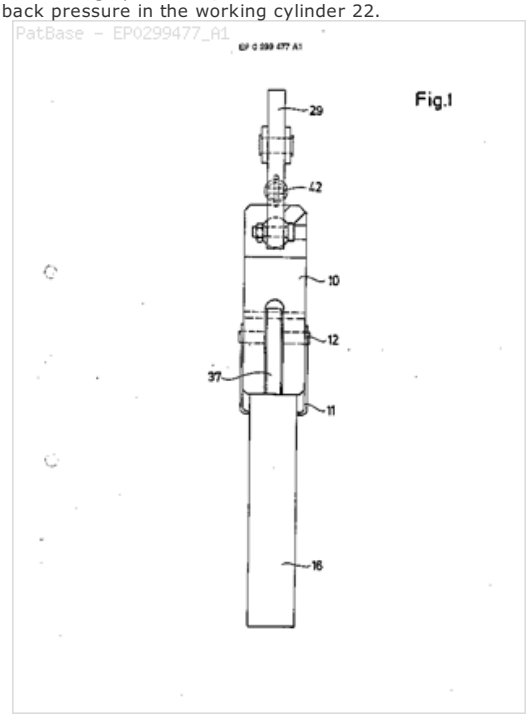
328) Family number: 4319979 (EP0299477A1)

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Title: HYDRAULICALLY OPERABLE HAND TOOL.

Abstract: In a hydraulically operable hand tool, such as pliers, scissors, for cutting and/deforming objects made of high-strength material, having a hydraulic system with downstream pressure-medium working cylinder 22, in which a pressure piston 23 moving the tool 29 is displaceable, and the pressure medium being pumped by means of a hand lever 11, coupled to a control piston 13, into the working cylinder 22, and a step piston 13 being inserted in the hydraulic system as control and pumping device, which piston possesses a pressure surface 14 designed for a higher pressure and another pressure surface 20 designed for a lower pressure, there is inserted in one, between one pressure space 21 with the pressure surface 20 designed for lower pressure and a downstream line 25 extending to the working cylinder 22, a differential valve X which opens and keeps open the suction valve 34 in the event of a certain back pressure in the working cylinder 22.

Classifications:
International (IPC 8-9): B23D29/00 B25B13/46 B25B21/00 B25B23/00 B25B27/02 B25B27/14 B25B7/00 B25B7/04 B25B7/12 F15B15/18 (Advanced/Invention);
B23D29/00 B25B13/00 B25B21/00 B25B23/00 B25B27/02 B25B27/14 B25B7/00 F15B15/00 (Core/Invention)
International (IPC 1-7): B25B28/00 B25B7/00 F15B15/18
CPC: B23D29/00 B25B7/04 B25B7/126 B25B13/467 B25B21/005 B25B23/00 B25B27/026 B25B27/146
European: B23D29/00 B25B13/46B3 B25B21/00D2 B25B23/00 B25B27/02C B25B27/14C B25B7/04 B25B7/12C



Family:

Publication number	Publication date	Application number	Application date
DE3723330 A1	19890126	DE19873723330	19870715
DE3875408 D1	19921126	DE19883875408	19880714
EP0299477 A1	19890118	EP19880111323	19880714
EP0299477 B1	19921021	EP19880111323	19880714

Priority:

DE19873723330 19870715 DE19883875408 19880714

Probable Assignee: ZAHN PAUL

Assignee(s): (std)**:** ZAHN PAUL

Assignee(s): ZAHN PAUL 4800 BIELEFELD DE

Inventor(s): (std)**:** ZAHN PAUL

Inventor(s): ZAHN PAUL 4800 BIELEFELD DE

Designated states: CH DE FR GB IT LI

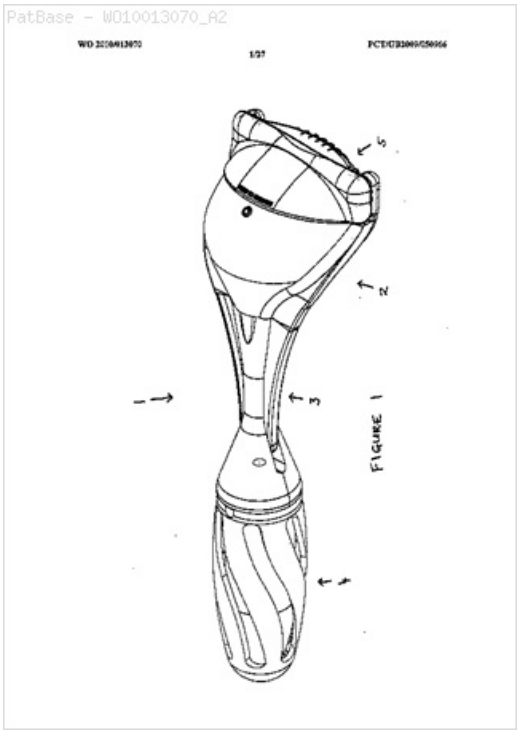
329) Family number: 42258983 (WO10013070A2)

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Title: IMPROVED RAZOR

Abstract: A razor comprises at least one blade and at least one sharpening element associated with the at least one blade, the sharpening element is operable to sharpen the at least one blade.

Classifications:
International (IPC 8-9): B26B21/50 (Advanced/Invention); B26B21/00 (Core/Invention)
CPC: B26B21/50 B26B21/40 B26B21/446 B26B21/58
European: B26B21/40 B26B21/44B B26B21/50 B26B21/58



Family:

Publication number	Publication date	Application number	Application date
GB200814006 A0	20100203	GB20080014006	20080731
GB200913386 A0	20090916	GB20090013386	20090731
GB2465445 A1	20100526	GB20090013386	20090731
WO10013070 A2	20100204	WO2009GB50966	20090731
WO10013070 A3	20100729	WO2009GB50966	20090731

Priority:

GB20080014006 20080731

Probable Assignee: LYN PARKIN

Assignee(s): (std)**:** LYN PARKIN ; PARKIN LYN ; THOMPSON GARY

Assignee(s): GARY THOMPSON

Inventor(s): (std)**:** PARKIN LYN ; THOMPSON GARY

Inventor(s): GARY THOMPSON

Agent(s): ELSWORTH DOMINIC STEPHEN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

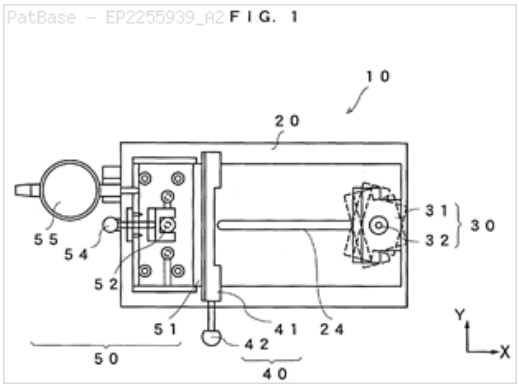
330) Family number: 47693985 (EP2255939A2)

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Title: BREAKING SYSTEM AND METHOD

Abstract: A substrate is held on a table 22, and the substrate is caused to project beyond a lateral side of the table 22 and is positioned by a positioning section 30. Then, that part of the substrate 23 which is located on the table is locked in place by a clamping section 40. Subsequently the substrate is broken along a scribing line, with its projecting part kept pressed from above, by using a breaking unit 50. In this way, a substrate of even smaller size can be precisely broken with ease under uniform application of pressure.

Classifications:
International (IPC 8-9): B26D5/26 B26F3/00 B28B11/14 B28D1/00 B28D1/22 B28D5/00 B28D7/04 C03B33/033 C03B33/037 H01L21/301 (Advanced/Invention);
B26D5/26 B28D1/00 C03B33/037 (Core/Non-invention)
CPC: B28D1/225 B28D7/04
European: B28D1/22D B28D7/04



Family:

Publication number	Publication date	Application number	Application date
CN101898390 A	20101201	CN201010189096	20100526
CN101898390 B	20150204	CN201010189096	20100526
EP2255939 A2	20101201	EP20100164119	20100527
EP2255939 A3	20111019	EP20100164119	20100527
JP2010274573 A2	20101209	JP20090130454	20090529
JP2013216102 A2	20131024	JP20130126068	20130614
JP2014221551 A2	20141127	JP20140134824	20140630
JP5777849 B2	20150909	JP20090130454	20090529
JP5778211 B2	20150916	JP20130126068	20130614
JP5980848 B2	20160831	JP20140134824	20140630
KR101123618 B1	20120322	KR20100050123	20100528
KR20100129222 A	20101208	KR20100050123	20100528
TW201107099 A	20110301	TW20100114279	20100504
TWI385064 B	20130211	TW20100114279	20100504

Priority:
JP20090130454 20090529 JP20130126068 20130614 JP20140134824 20140630

Probable Assignee: MITSUBOSHI DIAMOND IND CO LTD

Assignee(s): (std): MITSUBOSHI DIAMOND IND CO LTD

Assignee(s): MITSUBOSHI DIAMOND INDUSTRIAL CO ; MITSUBOSHI DIAMOND INDUSTRIAL CO LTD ; MITSUBOSHI DIAMOND IND CO

Inventor(s): (std): MAEKAWA KAZUYA ; ICHIKAWA KATSUNORI ; KAZUYA MAEKAWA ; KATSUNORI ICHIKAWA ; ICHIKAWA KATUNORI

Agent(s): TBK

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

331) Family number: 10986 (BRMU7400865U)

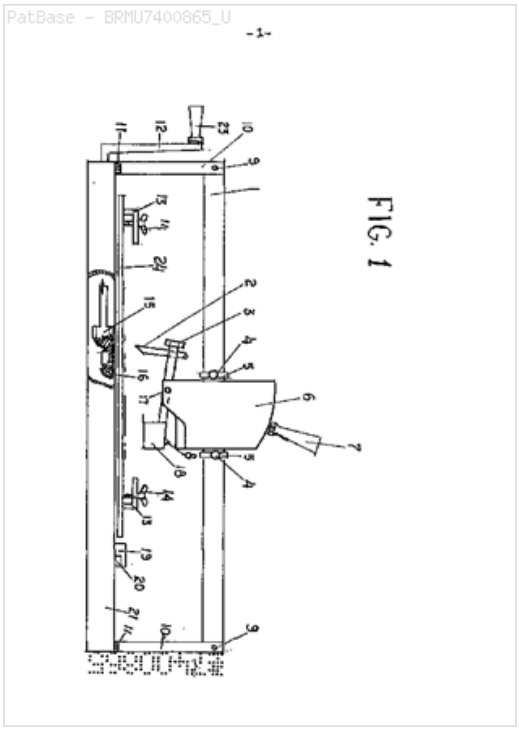
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Title: Multi-arremate Multi-finish (Machine translation)

Abstract: Source: BRMU7400865U [PT] [Source: Claim 1] >•1 • i«e • ••¦ i 4 ss! •ss •< ss> «VW # v I H D'l C jL£ a 0 "HULTI-ARREMATE" formada a partir de meca- nismos com pecas fixas, moveis e acessorios; caracteriza- da pelas multiplas funcoes; o trilho guia do carro (1) fi xado pelos parafusos (9) sobre o suporte (10), que sao fi 5 ¦ xados pelos parafusos (11) sobre a base (21) e o esquadro (19) fixado no sentido transversal da base, sao pecas que formam a estrutura fixa que serve de suportes para os me- canisino.s-inoveisss e 'acessdrios,(aj partir do carro (6) que move atraves de rolamentos (29) sobre o trilho (1), estes 10. rolamentos tem como eixos parafusos de cabecas chatas que sao embutidas sobre a chapa interna (28); a ferramenta de cortar e aplainar (18) tem como eixo o parafuso (17) que ¦ prende a alavanca (7) e, ao carro'(6); as bracadeiras (5) movem-se no sentido Longitudinal do trilho (1) e sao regu ladas" e travadas pelos parafusos (4) sobre o trilho (1); a manivela movei (23) que gira o pinhao (15) e a coroa (16) sao as pecas moveis; os acessorios sao, a vi dia de ponta aguda (2), ajvidia de disco |(22), a pastilha de es- `i11 -i, , - ¦ 20. meril (33)f os suportes,1](24)' e (36) ambos do mesmo forma- 1 ' ss < 1 to com abertura (35) no oentro tio sentido longitudinal onde prende-se as presilhas (13) atraves de parafusos de porca borboletas (14)i o suporte (36) e usado sobre os pes (41); a garga.(20) e embutida sobre o esquadro (19) I 25. o arame regulador -(40) e enrolado sobre a mangueira (39)

Machine translation: [Source: Claim 1]> • 1 • «and • • • ¦ i 4 ss! • ss • ss not equal to ' VW # v I H D I C jL £ 0 "HULTI-FINISH" formed from Mecca-mechanisms with fixed parts, furniture and accessories; features of the multiple functions; the car guide rail (1) fastened by screws (9) on the support (10), which are fi 5 ¦ mounted by screws (11) on the base (21) and the square (19) set in the transverse direction of the base, are pieces that make up the fixed structure which stands for the me-canisino s-inoveis ss and ' acessdrios, (aj from the car (6) to move through bearings (29) on the rail (1), these 10. bearings have as axes of screws heads boring which are embedded on the inner plate (28); the cutting and planing tool (18) has the screw shaft (17) which... holds the lever (7) and the car ' (6); the bracadeiras (5) move lengthwise (1) rail and are regu ladas "and locked by screws (4) on the rail (1); the crank move (23) that rotates the pinhao (15) and (16) are the mobile parts; the accessories are, saw her day of sharp tip (2), disk ajvidia | (22), the es-pad ' i11-i,-¦ 20. meril (33) f.1 brackets] (24) and (36) both on the same form-1 ' ss 1 < to opening (35) in the longitudinal direction in Uncle where is the belt loops (13) through nut screws butterflies (14) i support (36) and used on the pes (41); the Renee. (20) and embedded on the square (19) I 25. the wire-regulator (40) and wrapped over the hose (39)

Classifications:
International (IPC 8-9): B26D3/10 E04F21/24 (Advanced/Invention);
B26D3/00 E04F21/00 (Core/Invention)
International (IPC 1-7): B26D3/10 E04F21/24



Family:

Publication number	Publication date	Application number	Application date
BRMU7400865 U	19951128	BR1994MU00865U	19940505

Priority:

BR1994MU00865U 19940505

Probable Assignee: DA SILVA ANTONIO RAIMUNDO

Assignee(s): (std)**:** DA SILVA ANTONIO RAIMUNDO

Inventor(s): (std)**:** DA SILVA ANTONIO RAIMUNDO

Inventor(s): SILVA ANTONIO RAIMUNDO DA

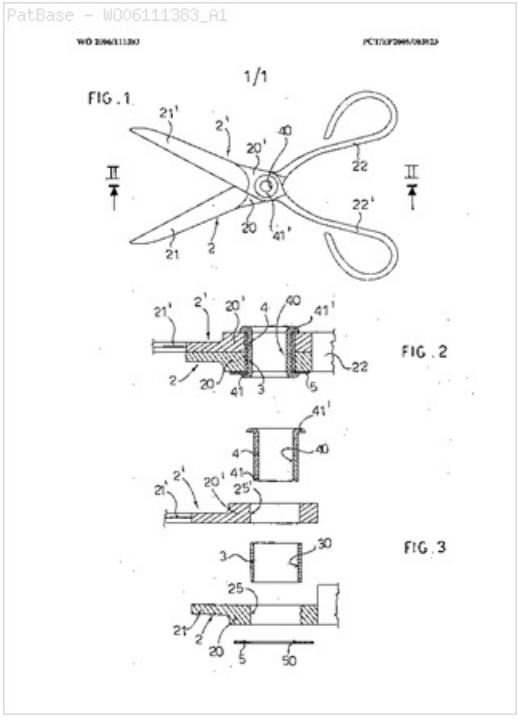
332) Family number: 33537990 (WO06111383A1)

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Title: SCISSORS

Abstract: Scissors (1) are described comprising: two levers (2, 2') provided with holes (25, 25') in their central portions (20, 20'), a bush (3) mounted rotatably inside the holes (25, 25') in the central portions (20, 20') of the levers so that the levers (2, 2') can rotate around the bush (3), and a rivet (4) coupled inside the bush (3) to block the bush (3) and to prevent the axial movement of the central portions (20, 20') of the levers.

Classifications:
International (IPC 8-9): B26B13/28 (Advanced/Invention); B26B13/00 (Core/Invention)
CPC: B26B13/28
European: B26B13/28



Family:

Publication number	Publication date	Application number	Application date
DE602005007329 D1	20080717	DE200560007329T	20050422
EP1714752 A1	20061025	EP20050425258	20050422
EP1714752 B1	20080604	EP20050425258	20050422
WO06111383 A1	20061026	WO2006EP03623	20060420

Priority:

EP20050425258 20050422

Probable Assignee: CONSORZIO PREMAX

Assignee(s): (std)**:** CONSORZIO PREMAX ; GIANOLA DIONIGI

Inventor(s): (std)**:** GIANOLA DIONIGI

Agent(s): PETRUZZIELLO ALDO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

333) Family number: 47905992 (US2010329800A)

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Title: TOOL FOR CHIP REMOVING MACHINING AS WELL AS A SOLID INDEXABLE CUTTING INSERT AND A SOLID BASIC BODY THEREFOR

Abstract: A tool for chip removing machining, including a basic body having an insert seat, and an indexable cutting insert fixed in the seat. The insert includes an upperside, an underside, a pair of side contact surfaces, two cutting edges that individually extend along a chip surface included in one of the upperside and underside, at least two heads that are spaced-apart via an intermediate part and individually include a front portion having at least one cutting edge and a rear portion along which the pair of side contact surfaces are formed. The insert seat of the basic body includes a central hollow space, and a front cavity and at least one rear cavity in which the heads of the cutting insert are housed, the front cavity including a pair of side support surfaces against which the pair of side contact surfaces of the cutting insert are pressed when a tightening element pulls the head rearward toward the side support surfaces. The basic body is solid by being formed integrally of steel material. The seat is countersunk in the basic body such that the side support surfaces are integrated in the steel material. The cutting insert is formed integrally from a second, hard-wearing material having at least the same hardness as cemented carbide, the pair of side contact surfaces of the insert being integrated in the second material.

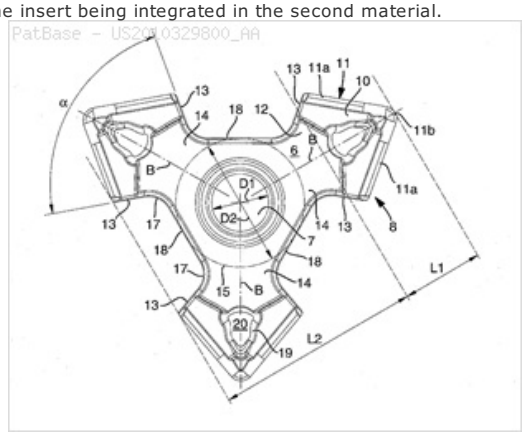
Classifications:

International (IPC 8-9): B23B27/04 B23B27/14 B23B27/16 B23C5/22 B26D7/18 (Advanced/Invention)

CPC: B23B27/16 B23C5/22 Y10T407/2274 Y10T407/23 Y10T407/235 B23B27/145 B23B27/1622 B23B2200/048 B23B2200/204 B23B2205/12 B23B2205/16 B23B27/045

European: B23B27/14B4 B23B27/16C4 L23B200/04J L23B200/20C L23B205/12 L23B205/16

US: 407/103 407/113 407/114 407/114P



Family:

Publication number	Publication date	Application number	Application date
CN102458735 A	20120516	CN201080028101	20100610
CN102458735 B	20150211	CN201080028101	20100610
DE602010032297 D1	20160525	DE201060032297T	20100610
EP2445673 A1	20120502	EP20100792411	20100610
EP2445673 A4	20121205	EP20100792411	20100610
EP2445673 B1	20160413	EP20100792411	20100610
JP2012531318 T2	20121210	JP20120517451T	20100610
JP5706410 B2	20150422	JP20120517451T	20100610
KR101728566 B1	20170419	KR20117030888	20100610
KR20120034165 A	20120410	KR20117030888	20100610
SE200900865 A1	20101225	SE20090000865	20090624
SE534512 C2	20110913	SE20090000865	20090624
US2010329800 AA	20101230	US20100797239	20100609
US8491231 BB	20130723	US20100797239	20100609
WO10151208 A1	20101229	WO2010SE50647	20100610

Priority:

SE20090000865 20090624 EP20100792411 20100610 WO2010SE50647 20100610

Probable Assignee: SANDVIK INTELLECTUAL PROPERTY AB

Assignee(s): (std)**:** EDLER DANIEL ; ENGLUND KJELL ; SANDVIK INTELLECTUAL PROPERTY

Assignee(s): SANDVIK INTELLECTUAL PROPERTY AB

Inventor(s): (std)**:** EDLER DANIEL ; ENGLUND KJELL ; KJELL ENGLUND ; DANIEL EDLER

Agent(s): AOKI ATSUSHI; SHIMADA TETSURO; DRINKER BIDDLE AND REATH (DC); DRINKER BIDDLE AND REATH; MORGAN LEWIS AND BOCKIUS LLP; KLOEFVER JOERGEN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST

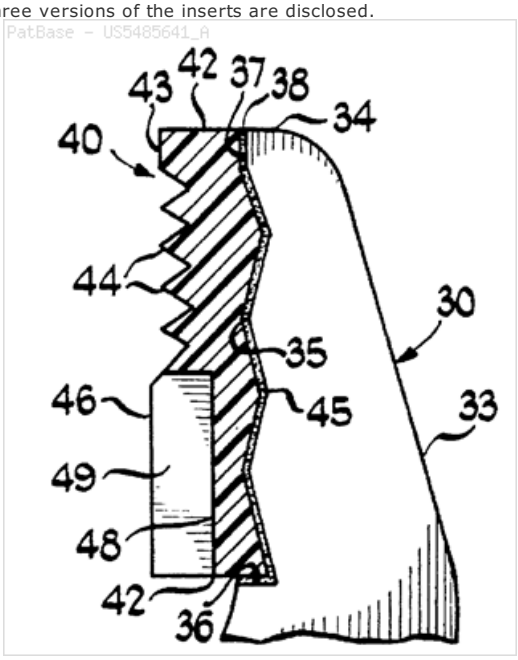
334) Family number: 8512996 (US5485641A)

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Title: Composite/plier cutter tool with shear action cutter insert

Abstract: A composite, non-electrically conductive, non-sparking, non-magnetic and lightweight cutter/plier hand tool has two pivotally interconnected lever members, each of unitary, one-piece construction and formed by compression molding of multiple plies of a discontinuous random glass fiber-reinforced plastic sheet molding compound. Fixed to the jaw of each lever member is a ceramic insert made of transformation toughened zirconia, formed by dry compression and then sintering of a powdered form of the ceramic material. Each insert has a serrated gripping portion and a cutting portion, with cutting surfaces on the opposed inserts operating in shearing relationship. Three versions of the inserts are disclosed.

Classifications:
International (IPC 8-9): B25B7/00 B25B7/02 B25B7/22 B25G1/12 B26B13/00 B29D31/00 H02G1/02 H02G1/14 (Advanced/Invention); H02G1/02 H02G1/14 (Advanced/Non-invention); B25B7/00 B25G1/00 H02G1/02 H02G1/14 (Core/Invention)
International (IPC 1-7): B25B7/00 B25B7/02 B25B7/22 B25G1/12 B26B13/00 B29C43/20 B29D31/00 B62B13/06 H02G1/02 H02G1/14
CPC: B25B7/00 B25B7/02 B25G1/12
European: B25B7/00 B25B7/02 B25G1/12
US: 30/229 7/134 81/186 81/421



Family:

Publication number	Publication date	Application number	Application date
AU199468757 A1	19950504	AU19940068757	19940727
AU670513 B2	19960718	AU19940068757	19940727
CA2126042 AA	19950419	CA19942126042	19940616
DE69422689 D1	20000224	DE19946022689	19940630
DE69422689 T2	20000831	DE19946022689T	19940630
EP0653273 A2	19950517	EP19940110253	19940630
EP0653273 A3	19950906	EP19940110253	19940630
EP0653273 B1	20000119	EP19940110253	19940630
JP7164334 A2	19950627	JP19940167589	19940720
KR19950011058 A	19950515	KR19940019841	19940811
US5485641 A	19960123	US19940352431	19941209

Priority:
US19930137367 19931018 CA19942126042 19940616 US19940352431 19941209

Probable Assignee: SNAP ON TECHNOLOGIES INC
Assignee(s): (std): SNAP ON TOOLS CORP
Assignee(s): SNAP ON TOOLS WORLDWIDE INC ; SUNATSUPU ON INC ; ZURBUCHEN GREGORY A ; LEMENS PAUL B ; MACHMEIER PAUL M ; SNAP ON INC ; SNAP ON INC KENOSHA ; SNAP ON TECHNOLOGIES INC
Inventor(s): (std): GUREGORII EI ZAABATSUCHIEN ; LEMENS PAUL B ; MACHMEIER PAUL M ; POORU BII REMENZU ; POORU EMU MATSUKUMEIYAA ; ZURBUCHEN GREGORY A
Inventor(s): GREGORY A ZURBUCHEN ; PAUL B LEMENS ; PAUL M MACHMEIER
Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR
Designated states: BE DE FR GB IT