

Search history

Search PA=(INGENIERIA E INNOVACION TWISTER SAS) (Results 1)

1:

Search fn=(67287445) (Results 1)

2:

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Search PN=(CN202106260) (Results 1)

4:

Search [SP]: ground grinding machine the utility model discloses a ground grinding machine, which comprises a grinding device, a secondary filtering device, a dust sucking pipe, a tool case and a machine frame. a cyclone dust removing device is further arranged between the grinding device and the secondary filtering device, one end of the cyclone dust removing device is communicated with a grinding disc dustproof cover, and the other end of the cyclone dust removing device is communicated with the secondary filtering device. the cyclone dust removing device is composed of a cyclone inlet pipe, a cyclone barrel and a center air pipe. the grinding device comprises a replaceable grinding disc, a grinding disc dustproof cover and a grinding motor. one end of the dust sucking pipe is connected with the grinding disc dustproof cover, and the other end of the dust sucking pipe is connected with the secondary filtering device. a dust sucking motor is arranged inside the secondary filtering device, a rotating wheel is arranged at the bottom of the machine frame, and parts are combined into a movable whole by the machine frame. compared with the prior art, the ground grinding machine is electricity-saving and easy to operate. dust removing effect of the ground grinding machine is greatly improved due to the fact that air containing dust particles are treated by the cyclone dust removing device and the secondary filtering device. (Results 1)

Search grind* (Results 812458)

6:

Search machine or device or apparatus or system (Results 1000000)

7:

Search 6 and 7 (Results 537488)

8:

Search ground or floor (Results 1000000)

9:

Search 8 and 9 (Results 202208)

10:

Search cyclon* (Results 122616)

11:

Search 10 and 11 (Results 7533)

12:

Search polish* (Results 585418)

13:

Search 12 and 13 (Results 578)

14:

Search IC=(B24B) (Results 244711)

15:

Search 14 and 15 (Results 27)

16:

1) Family number: 22298303 (US3247626A)

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Title: GLASS PLANING PROCESS

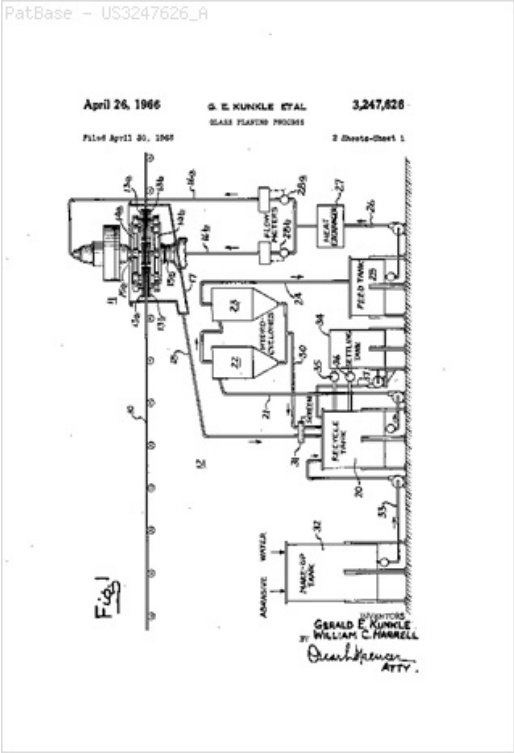
Abstract: 997,699. Grinding. PITTSBURGH PLATE GLASS CO. April 16, 1964 [April 30, 1963], No. 15738/64. Heading B3D. A method of removing shallow defects from flat glass comprises abrading the glass surface with a block of hard elastomer incapable of conforming to the defect contour while supplying an aqueous slurry of finely-divided rare earth abrasive between the block and the glass. In apparatus for carrying out the method, ten blocks 13a and ten blocks 13b are freely rotatably mounted on upper and lower frames 14a, 14b secured to motor-driven spindles 15a, 15b for operation on the upper and lower surfaces of a ribbon 10 of glass which may be formed by the float process. Each block is of circular form and consists of a grooved disc 20 of plastic, such as polyvinyl chloride, polycarbonate, acetal resin or polypropylene having a Shore D hardness between 60 and 90, backed by a resilient layer 21 of sponge rubber on a rigid iron backing disc 22. The block has a central opening 23 for the supply of slurry and circular and radial grooves 24, 25, 26 for distributing the slurry between the block and glass. The slurry comprises an abrasive in the form of a rare earth oxide mixture, such as lanthanum or cerium oxide having an average particle size of 1 micron mixed with water, there being 5 to 10 parts by weight of abrasive for each part of water. The slurry is supplied from a feed tank 25 and heat exchanger 27 to metering means 28a, 28b and pipes 16a, 16b leading to the blocks. The used slurry is collected in a sump 17 having a pipe 18 leading to a screen 31 and re-cycling tank 20 from where it is pumped through line 21 into successive hydrocyclone particle separators 22, 23. The smaller particles in the slurry are drawn upwardly and fed by pipe 24 to the feed tank 25 while the larger particles are returned by pipe 30 to the screen 31 and tank 20. Periodically a portion of the contents of tank 20 are passed to a settling tank 34 through valves 35, 36 and a return pipe 37. Loss of slurry is compensated by a make-up tank 32. The method and apparatus are intended to remove defects in glass sheet of the order of up to 1 micron depth and a width to depth ratio of not less than ten thousand to one, the elastomer of the block being of such a hardness that it does not conform to the

contour of the defect.

Classifications:

International (IPC 8-9): B24B55/02 B24B7/24 (Advanced/Invention);
B24B55/00 B24B7/20 (Core/Invention)
International (IPC 1-7): B24B1/00 B24B57/00 B24B7/24 C03C17/32
CPC: B24B7/241 B24B55/02
European: B24B55/02 B24B7/24B
US: 451/261 451/41

PatBase - US3247626_A



Family:

Publication number	Publication date	Application number	Application date
BE647414 A	19641030		19640430
GB997699 A	19650707	GB19640015738	19640416
US3247626 A	19660426	US19630276751	19630430

Priority:

US19630276751 19630430

Probable Assignee: PITTSBURGH PLATE GLASS CO
Assignee(s): (std): PITTSBURGH PLATE GLASS CO
Assignee(s): PITTSBURGH PLATE GLASS COMPANY
Inventor(s): (std): HARRELL WILLIAM C ; KUNKLE GERALD E

2) Family number: 21075149 (FR1381925A)

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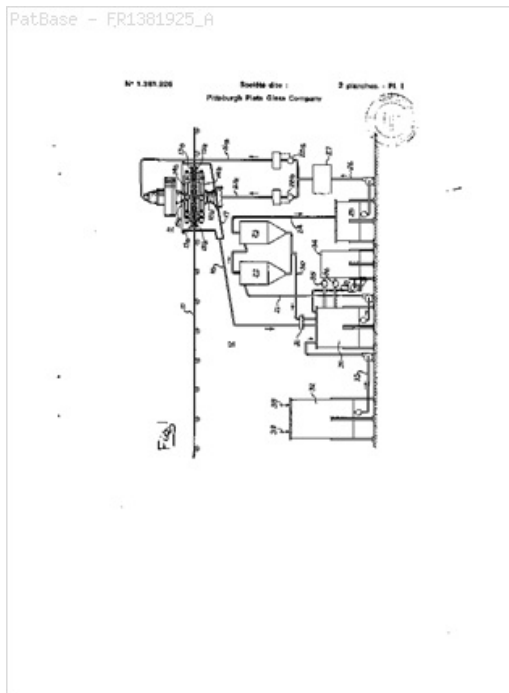
Title: PROCEDE ET APPAREIL D'APLANISSAGE DU VERRE METHOD AND APPARATUS cutting down GLASS (Machine translation)

Abstract: Source: FR1381925A [FR] (Claim 1) 1 Procédé d'enlèvement des défauts peu profonds, plusieurs milliers de fois plus larges que profonds, de la surface du verre plat fabrique a grande echelle, consistant a aplanir la surface du verre au moyen d'un bloc d'elastomere dur non susceptible d'epouser les contours du defaut, tout en introduisant entre le bloc et la surface du verre une suspension aqueuse diluee 32 d'abrasif fine ment divise a base de terres rares.

Machine translation: (Claim 1) a method of removing defects shallow money, several thousand times wider than deep, the surface of flat glass produced on a large scale, consisting of a smooth glass surface by means of a block of elastomeric drive not likely to marry the contours of the defect, while introducing between the block and the glass surface a diluted aqueous suspension of abrasive fine 32 ment was divided based on rare earths.

Classifications:

International (IPC 8-9): B24B7/24 (Advanced/Invention);
B24B7/20 (Core/Invention)
International (IPC 1-7): B24B57/00
CPC: B24B7/241
European: B24B7/24B

**Family:**

Publication number	Publication date	Application number	Application date
FR1381925 A	19641214	FR19640963013	19640207

Priority:

FR19640963013 19640207

Probable Assignee: PITTSBURGH PLATE GLASS CO**Assignee(s):** (std): PITTSBURGH PLATE GLASS CO**Assignee(s):** PITTSBURGH PLATE GLASS COMPANY**3) Family number: 24762746 (US3585980A)**

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Title: METHOD AND DEVICE FOR REMOVING MORTAR OR THE LIKE FROM BETWEEN SUPERIMPOSED ROWS OF BRICKS OR THE LIKE

Abstract: 1,105,308. Machinery guards F. MELLOR. 2 Sept., 1965 [3 Sept., 1964; 30 June, 1965], Nos. 36215/64 and 27650/65. Heading F2J. [Also in Divisions B3 and F4] A thin flexible cutting disc 2 of a portable cutting or grinding tool is protected over half its area by a semi-circular guard 4, air laden with dust being extracted tangentially through an outlet 22 parallel to and normal to the plane of the disc and leading to a cyclone separator driven by a vacuum pump (not shown). The outlet 22 is connected to a flat, open edge 12 of the guard by a straight, closed edge 14 forming part of a triangular outlet extension 16. In a further embodiment (Fig. 3, not shown), a chasing tool is adjustable in position in a slot (346) of a guard (304) when it swings on a triangular arm (348), the apex thereof being pivoted to the guard at (352) and an extension (360) thereof being clamped by a wing-nut to a pin running in a groove (302) in the upper surface of the guard. Dust is collected as before, a closed portion (314) being curved and an outlet extension (316) lying at 125 degrees to a flanged open edge (312). In a third embodiment (Fig. 4, not shown), the guard comprises two parts (404), (406) which are telescopic and spring-biased to the open position. Flanges (442) abut the wall, the part (465) retracting into the part (404) as the disc cuts deeper into the wall. In a final embodiment (not illustrated), two parallel discs are housed in one guard.

Classifications:**International (IPC 8-9):** B24B55/05 B24B55/10 B28D1/18 (Advanced/Invention);

B24B55/00 B28D1/18 (Core/Invention)

International (IPC 1-7): B24B1/00 B24B27/06 B24B55/04

B24B55/06 B27G3/00 B28D1/02 B28D1/04

CPC: B24B55/05 B24B55/102 B28D1/183**European:** B24B55/05 B24B55/10B B28D1/18C**US:** 125/13 125/13.01 451/41 451/451 451/456

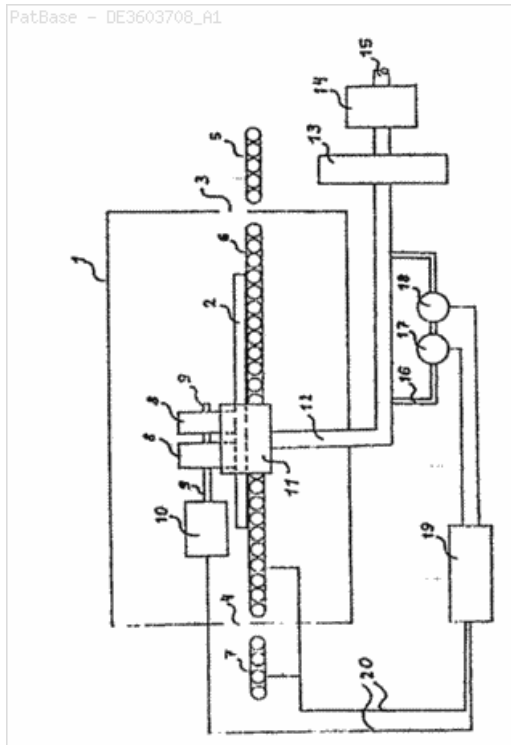
Publication number	Publication date	Application number	Application date
BE669110 A	19660302		19650902
CH444699 A	19670930	CH19650012319	19650903
DE1502527 A1	19691030	DE19691502527	19691029
FR1466319 A	19670120	FR19650030225	19650902
GB1105308 A	19680306	GB19640036215	19640903
US3585980 A	19710622	US19690805960	19690220

GB19640036215 19640903 GB19650027650 19650630 US19650484878 19650903
US19690805960 19690220

Probable Assignee:	MELLOR FRED
Assignee(s): (std)	MELLOR FRED
Assignee(s):	FRED MELLOR
Inventor(s): (std)	MELLOR FRED ; FRED MELLOR

Abstract: The invention relates to a method for decontaminating superficially radioactive surfaces, in particular of metal. The surfaces are ground so far using rotating hardened steel wire brushes and the grinding dust is continuously sucked off and collected until the radioactivity of the grinding dust or of the contaminated surface has dropped below a predetermined value. The invention also relates to a suitable device.

International (IPC 8-9): G01T7/04 G21F9/00 (Advanced/Invention);
G01T7/00 G21F9/00 (Core/Invention)
International (IPC 1-7): B24B29/00 C25F3/16 G01T1/167 G01T7/04
G21F9/02 G21F9/28
CPC: G01T7/04 G21F9/001
European: G01T7/04 G21F9/00B

**Family:**

Publication number	Publication date	Application number	Application date
DE3603708 A1	19870813	DE19863603708	19860206

Priority:

DE19863603708 19860206

Probable Assignee: NICO INDUSTRIEREINIGUNG AG**Assignee(s):** (std): NICO INDUSTRIEREINIGUNG AG**Inventor(s):** (std): BEYER VICTOR**5) Family number: 2267313** (US4693037A)

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Title: Multistage finishing device and method

Abstract: A vibratory finishing machine for the surface finishing of workpieces comprising an essentially spiral trough, having a plurality of channels in side-by-side relationship, resiliently mounted for vibration and tilted with respect to the horizontal; such a spiral trough which is employed as a finishing chamber by attachment to a resiliently-mounted vibratory structure of a vibratory finishing machine; and a method and apparatus for vibratorily finishing a workpiece by subjecting it to a surface finishing medium in such a trough, having liquid finishing medium in only lower sections thereof and having solid finishing medium in an outer channel of said trough, are disclosed.

Classifications:**International (IPC 8-9):** B24B31/06 B24B31/073 B24B31/12

B24B31/16 (Advanced/Invention);

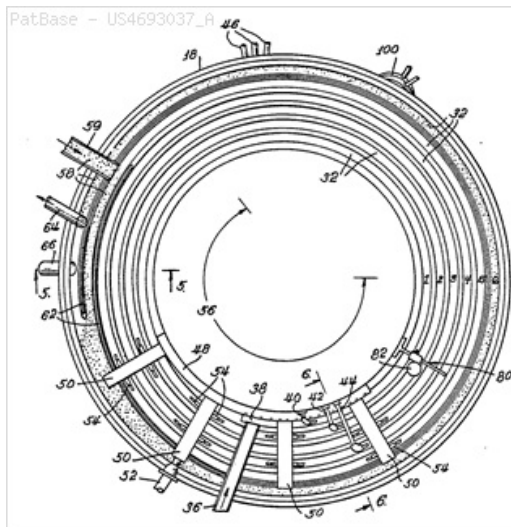
B24B31/00 (Core/Invention)

International (IPC 1-7): B24B31/06 B24B31/06 B24B31/073

B24B31/12 B24B31/16

CPC: B24B31/073**European:** B24B31/073**US:** 134/117 134/132 366/108 451/327 451/34 51/313 511/632

PatBase - US4693037_A

**Family:**

Publication number	Publication date	Application number	Application date
AU198772039 A1	19870909	AU19870072039	19870224
CA1300887 A1	19920519	CA19870530509	19870224
CH669550 A	19890331	CH19870004123	19870224
DE3790077 C2	19930826	DE19873790077	19870224
DE3790077 T	19880331	DE19873790077T	19870224

EP0257097 A1	19880302	EP19870902212	19870224
EP0257097 A4	19890309	EP19870902212	19870224
EP0257097 B1	19920422	EP19870902212	19870224
ES2004378 AF	19890101	ES19870000504	19870225
IE61212 B	19941019	IE19870000465	19870224
IE870465 L	19870825	IE19870000465	19870224
JP5055275 B4	19930816	JP19870502075	19870224
JP63502974 T2	19881102	JP19870502075	19870224
KR19887000714 A	19880411	KR19877000974	19870224
MX166732 B	19930201	MX19870005334	19870224
NL8720138 A	19880104	NL19870020138	19870224
US4693037 A	19870915	US19860833203	19860225
WO8704964 A1	19870827	WO1987US00438	19870224

Priority:

US19860833203 19860225 CA19870530509 19870224 WO1987US00438 19870224

Probable Assignee: ROTO FINISH CO INC

Assignee(s): (std): ROOTO FUINITUSU CO INC ; ROTO FINISH CO ; ROTO FINISH CO INC A MICH

Assignee(s): ROTO FINISH CO INC A MICHIGAN CORP ; ROTO FINISH CO INC KALAMAZOO MICH US ; ROTO FINISH CO INC TE KALAMAZOO MICHIGAN VER ST V AM ; ROTO FINISH CO INC AN INDIANA CORP ; ROTO FINISH CO INC ; ROTO FINISH CO INC A CORP OF INDIANA ; MCNEIL GARY LEE

Inventor(s): (std): MACNEIL GARY LEE ; MATSUKUNEIRU GEIRIII ERU ; MCNEIL GARY L ; MCNEIL GARY LEE

Inventor(s): MACNEIL GARY LEE ALLEGAN MICH ; MACNEIL GARY LEE ALLEGAN MICH US ; GARY L MCNEIL ; GARY LEE MCNEIL

Agent(s): PERLEY ROBERTSON HILL AND MCDUGALL LLP

Designated states: AT AU BE BR CH DE DK FI FR GB IT JP KR LU NL NO SE SU

6) Family number: 12262470 (US5470271A)

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Title: Flexible belt reclaiming

Abstract: A separation process including providing a flexible belt photoreceptor comprising a photoconductive layer on the outer surface of a flexible metal belt substrate, the photoconductive layer including amorphous selenium or selenium alloy, transporting the substrate through an arcuate path having a small radius of curvature to apply stress to the photoconductive layer, and abrasively removing substantially all of the selenium or selenium alloy remaining on the substrate. This process may be carried out in an apparatus which includes at least one member having an arcuate surface with a small radius of curvature, means to transport the belt photoreceptor in an arcuate path over the arcuate surface, and abrasive means adapted to contact and remove substantially all of the photoconductive layer from the substrate.

Classifications:

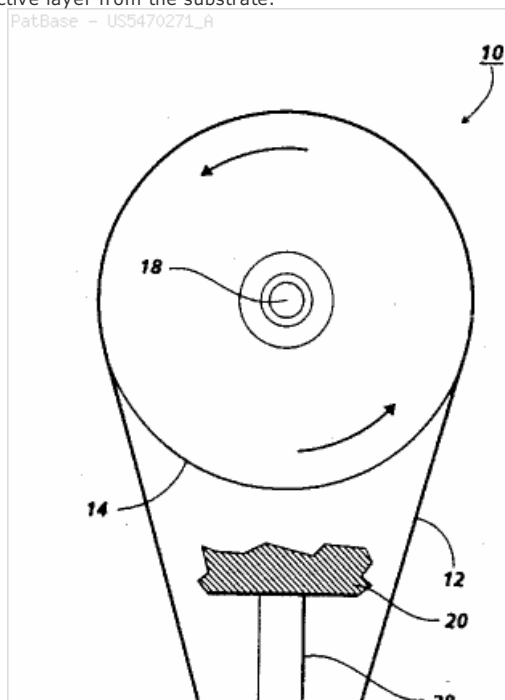
International (IPC 8-9): G03G15/00 G03G5/00 (Advanced/Invention)

International (IPC 1-7): B24B27/033

CPC: G03G5/005 G03G15/75

European: G03G15/75 G03G5/00B

US: 451/39 451/53 451/55 451/59



Family:

Publication number	Publication date	Application number	Application date
US5470271 A	19951128	US19940259364	19940614

Priority:

US19920815795 19920102 US19940259364 19940614

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): BACH GARY J ; BRIGGS DAVID R ; DUDLEY ALAN L ; HERBERT WILLIAM G ; HUTCHINSON CHARLES A ; MASTALSKI HENRY T ; MCFADDEN JR WILLIE ; PROSEUS ERWIN E ; RIKER WAYNE F ; SCHMITT PETER J ; TRACEY FRANCES

Title: Molded abrasive brush

Abstract: A molded abrasive brush having a backing with a plurality of bristles extending therefrom. The backing and bristles are preferably integrally molded. The brush is molded from a moldable polymer such as a thermoset polymer, thermoplastic polymer, or thermoplastic elastomer. The moldable polymer includes a plurality of organic or inorganic abrasive particles interspersed throughout at least the bristles, and can be interspersed throughout the brush. The moldable brush can include an attaching means molded integrally with the backing. Also disclosed is a method of making a molded abrasive brush and a method of refining a workpiece surface with a molded abrasive brush.

Classifications:

International (IPC 8-9): A46B1/00 A46B13/00 A46B13/02 A46B7/04 A46D1/00 A46D1/055 B24D13/10 B24D13/14 B24D18/00 B24D3/00 B24D3/28 B29C45/00 B29C45/26 B29C70/02 (Advanced/Invention); A46B1/00 A46B13/00 A46D1/00 (Advanced/Non-invention); A46B1/00 A46B13/00 A46D1/00 B29C70/00 (Core/Invention)

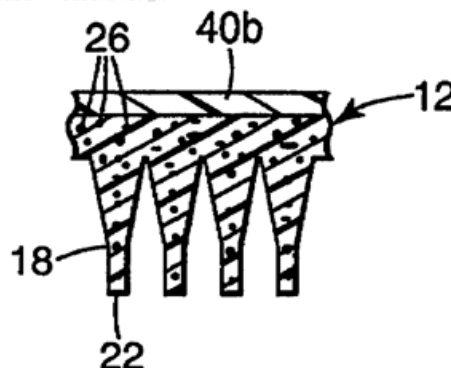
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CPC: A46B7/04 A46B2200/302 B29C45/0013 B29C45/26 B29C2045/0015 B29L2031/42 B29L2031/7654 A46D1/023 A46B3/005 A46B13/003 A46B13/008 A46B2200/3093 A46D1/00 B24D3/28 B24D13/10 B24D13/145 B24D18/0009 B29C47/0014 B29C47/128

European: A46B13/00B2 A46B13/00C A46B13/00C1 A46B3/00A A46B7/04 A46D1/00 A46D1/02D B24D13/10 B24D13/14C B24D18/00B B24D3/28 B29C45/00E B29C45/26 K46B200/30C K46B200/30P L29C45/00E1 L29C47/12E L29L31/42 L29L31/7654

US: 15/180 15/187 15/188 15/198 451/359 451/41 451/466 451/527 451/530 451/533 451/550 451/59 451/63 51/295 51/298

PatBase - US5679067_A



Family:

Publication number	Publication date	Application number	Application date
AT207716 E	20011115	AT19960913063T	19960419
AT343944 E	20061115	AT19960200484T	19960419
AU199655684 A1	19961118	AU19960055684	19960419
BRPI9608221 A	19990601	BR1996PI08221	19960419
CA2218245 AA	19971014	CA19962218245	19960419
CA2218245 C	20060822	CA19962218245	19960419
CA2547300 AA	19961031	CA19962547300	19960419
CN1163179 C	20040825	CN19961094643	19960419
CN1187111 A	19980708	CN19961094643	19960419
DE69616539 D1	20011206	DE19966016539	19960419
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DE69636678 D1	20061214	DE19966036678	19960419
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Priority:

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Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; MINNESOTA MINING AND MFG ; MINNESOTA MINING AND MFG CO ; ROEKER DAVID C

Assignee(s): MINNESOTA MINING AND MFG CO SAINT PAUL ; MEVISSSEN SCOTT M ; PIHL RICHARD M ; MANN LAWRENCE J ; LIEPA MARA E ; MINNESOTA MINING AND MANUFACTURING CO ; MINNESOTA MINING AND MANUFACTURING COMPANY ; MINNESOTA MINING AND MANUFACTURING CO ; MINNESOTA MINING AND MANUFACTURING COMPANY ; 3M INNOVATIVE PROPERTIES COMPANY ; BANGE DONNA W ; IONTA RICHARD ; JOHNSON DAVID E

Inventor(s): (std): BANE DONNA W ; BANGE DONNA W ; BANGE W ; IONTA RICHARD ; JOHANSON DAVID E ; JOHNSON D E ; JOHNSON DAVID E ; JOHNSON E ; LIEPA E ; LIEPA MARA E ; LONTA RICHARD ; MANN J ; MANN L J ; MANN LAWRENCE J ; MEVISSSEN D E JOHNSON L J MANN ; MEVISSSEN M ; MEVISSSEN S M ; MEVISSSEN SCOTT M ; PIHL M ; PIHL RICHARD M ; ROECKER DAVID C ; ROECKER C ; ROECKER DAVID C

Inventor(s): S M MEVISSSEN ; SCOTT M MEVISSSEN ; RICHARD IONTA ; RICHARD LONTA ; RICHARD M PIHL ; MARA E LIEPA ; L J MANN ; LAWRENCE J MANN ; D E JOHNSON ; D E JOHNSON L J MANN S M MEVISSSEN ; DAVID C ROECKER ; DAVID C ROECKER ; DAVID E JOHNSON ; DONNA W BANGE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

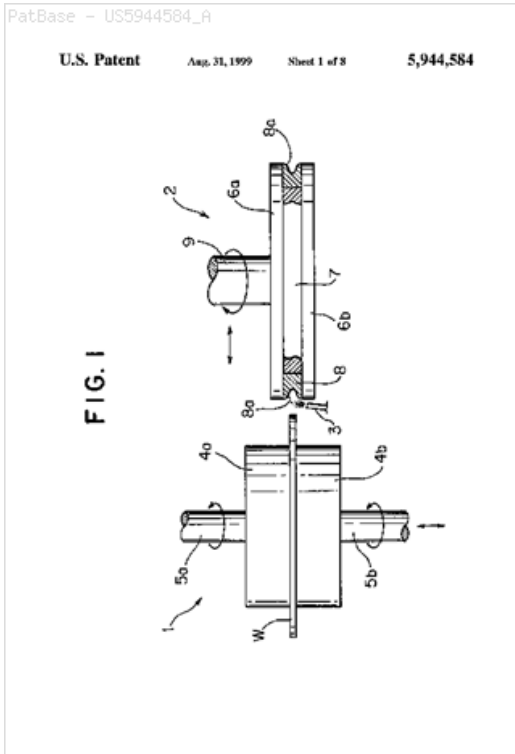
Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN

8) Family number: 11216717 (US5944584A)
© PatBase

Title: Apparatus and method for chamfering wafer with loose abrasive grains

Abstract: Dispersion of cracks in a crack layer across a ground surface is reduced in chamfering a semiconductor silicon wafer. The semiconductor silicon wafer is clamped by a clamp device, which is freely rotated and a polisher having the shape of a ring built in a polishing device, which is freely rotated, is disposed in a place, the polisher having a periphery shaping edge on a peripheral side surface, wherein the polishing device is moved in a radial direction of the wafer so as to position the periphery shaping edge close to the periphery of the wafer, and the wafer and the polishing device are rotated relatively to each other, while slurry containing suspension of abrasive grains is supplied to a narrow space therebetween from a slurry supply nozzle.

Classifications:
International (ipc 8-9): B24B1/00 B24B37/02 B24B57/00 B24B9/00 B24B9/06 B24D13/18 (Advanced/Invention); B24B37/02 B24B57/00 B24B9/00 B24B9/06 B24D13/00 (Core/Invention)
International (ipc 1-7): B24B1/00 B24B37/02 B24B57/00 B24B9/00 B24B9/06 B24D13/18
CPC: B24B9/065 B24B37/02 B24B57/00 B24D13/18
European: B24B37/02 B24B57/00 B24B9/06B B24D13/18
US: 451/285 451/41 451/43



Family:

Publication number	Publication date	Application number	Application date
EP0826459 A1	19980304	EP19970306516	19970826
JP10071549 A2	19980317	JP19960244184	19960827
JP3620679 B2	20050216	JP19960244184	19960827
MY132505 A	20071031	MY19970003922	19970826
US5944584 A	19990831	US19970914751	19970820

Priority:

JP19960244184 19960827

Probable Assignee: SHIN ETSU HANDOTAI CO LTD

Assignee(s): (std): SHIN ESTU HANDOTAI CO LTD ; SHIN ETSU CHEMICAL CO LTD ; SHINETSU HANDOTAI KK

Assignee(s): SHIN ETSU HANDOTAI CO ; SHIN ETSU HANDOTAI CO LTD ; SHIN ETSU HANDOTAI COMPANY LIMITED

Inventor(s): (std): TOYAMA KOHEI

Inventor(s): KOHEI TOYAMA

Designated states: DE FR GB

9) Family number: 28671040 (US6497793B)
© PatBase

Title: Apparatus and method for grinding webs made of fiber material

Abstract: Apparatus and method for grinding levelling of paper, cardboard or a similar continuous web manufactured from vegetative based fibrous raw-material, said apparatus comprising a plurality of grinding means such as rolls or belts preferably arranged on both sides of the web, said means being deviated from the moving direction of the web or the web

being deviated from these by means of squeeze rolls and which rolls are characterised by being trioelectrically charged with a similar electrical charge as the ground surface. The web tension can be regulated by moving the grinding means or the web from its direction of movement and the dust generated at the grinding is removed by a vacuum system.

Classifications:

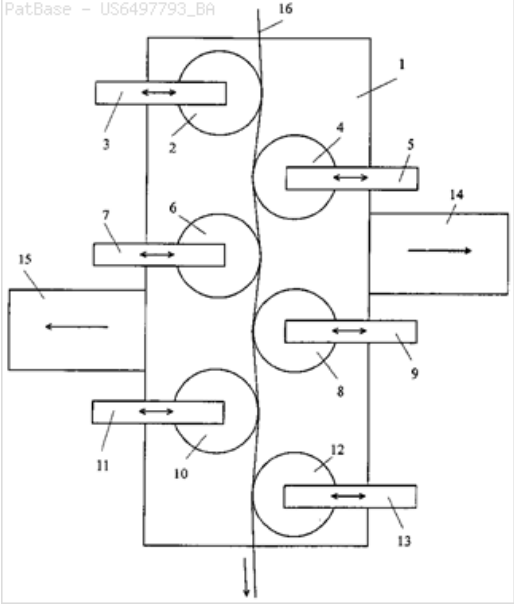
International (ipc 8-9): B24B21/06 B24B21/12 B24D11/06
B24D3/00 B24D3/28 B24D5/00 D21G1/00 D21G9/00 D21H19/10
D21H23/30 D21H23/52 D21H25/00 D21H25/04 (Advanced/Invention);
B24D3/00 B24D5/00 D21G1/00 D21H25/00
D21H25/12 (Advanced/Non-invention);
B24B21/04 B24D11/00 B24D3/00 B24D3/20 B24D5/00 D21G1/00
D21H19/00 D21H25/00 (Core/Invention);
D21H (Subclass/Invention)

International (ipc 1-7): B24B21/06 B24B21/12 B24D11/06
B24D3/00 B24D3/28 B24D5/00 D21G1/00 D21G9/00 D21H23/30
D21H25/00 D21H25/04 D21H25/12

CPC: D21H25/005

European: D21H25/00B

US: 162/204 162/286 162/361 26/28 451/184



Family:

Publication number	Publication date	Application number	Application date
AU199951657 A1	20000228	AU19990051657	19990722
AU199951657 A5	20000228	AU19990051657	19990722
AU209951657 A1	20000228	AU19990051657	19990722
AU750375 B2	20020718	AU19990051657	19990722
BRPI9912320 A	20010424	BR1999PI12320	19990722
CA2338072 AA	20010118	CA19992338072	19990722
CA2338072 C	20081014	CA19992338072	19990722
CN1156630 C	20040707	CN19998011225	19990722
CN1319151 A	20011024	CN19998011225	19990722
EP1102895 A1	20010530	EP19990936630	19990722
FI110534 B	20030214	FI19990000074	19990115
FI111398 B	20030715	FI19980001651	19980722
FI112516 B	20031215	FI19990001269	19990603
FI981651 A0	19980722	FI19980001651	19980722
FI990074 A	20000123	FI19990000074	19990115
FI990074 A0	19990115	FI19990000074	19990115
FI991269 A	20000123	FI19990001269	19990603
FI991269 A0	19990603	FI19990001269	19990603
ID28252 A	20010510	ID20010000185	19990722
JP2002522239 T2	20020723	JP20000563871T	19990722
KR20010071019 A	20010728	KR20017000984	19990722
MXPA01000750 A1	20020408	MX2001PA00750	19990722
NO20010336 A	20010313	NO20010000336	20010119
NO20010336 A0	20010119	NO20010000336	20010119
NZ509725 A	20030725	NZ19990509725	19990722
NZ523196 A	20040528	NZ19990523196	19990722
PL345614 A1	20020102	PL19990345614	19990722
RU2001105918 A	20030220	RU20010105918	19990722
RU2224063 C2	20040220	RU20010105918	19990722
US6497793 BA	20021224	US20010744359	20010216
WO0008255 A1	20000217	WO1999FI00638	19990722

Priority:

FI19980001651 19980722 FI19990000074 19990115 FI19990001269 19990603
NZ19990509725 19990722 WO1999FI00638 19990722

Probable Assignee: IDI HEAD OY

Assignee(s): (std): AHONEN HEIKKI ; DETTLING BERNHARD ; IDI HEAD OY

Assignee(s): IDI HEAD OY NUUTALANTIE

Inventor(s): (std): AHONEN H ; AHONEN HEIKKI ; AKHONEN KHEJKKI ; B DETTLING ; BERNHARD DETTLING ; DETTLING B ; DETTLING BERNHARD ; DETTLING BERNKHARD ; H AHONEN ; HEIKKI AHONEN

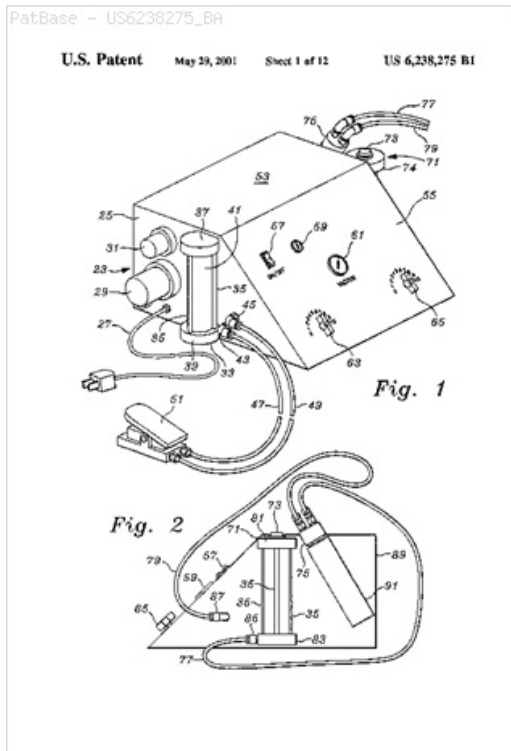
Agent(s): WRAYS PTY LTD; WRAYS; OGILVY RENAULT LLP SENCRL SRL

Designated states: AE 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 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 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 ZA ZW

Abstract: Systems for abrasive action include machinery for creating a vacuum and positive pressure to enable flow control while providing adequate vacuum to both retrieve and capture the spent abrasive material and the abraded material. A first embodiment includes a vacuum and boost operation facilitated by the use of a foot control for high control of abrasion, cleaning and polishing. A second embodiment is for use with human tissue and includes a vacuum only system with filtered air. A third embodiment includes vacuum with automatic boost for skilled medical personnel use and uses a minimum vacuum level to trigger a pre-set boost operation. The system utilizes air filtration, ultra violet, heat oven sterilization and secure waste storage. A manual contact tool is used closely with the area to be abraded supplanting any other control other than the pressing of the manual contact tool against the surface to be abraded, to create sufficient vacuum to trigger boost operation. A hand-held direct particle beam abrasion manual contact tool having a prophylactic tip which creates a concentric space within which the kinetics of focussed direct impact and radial collection of spent abrasive particles and abraded material is collectably withdrawn. A flow accelerator within an annular insert of the manual contact tool and prophylactic tip can be varied to suit many applications.

Classifications:

International (IPC 8-9): A47L11/34 A61B17/00 A61B17/32
A61B17/54 A61C3/02 A61C3/025 A61G12/00 B24C5/02 B24C5/04
B24C7/00 B24C9/00 F16K11/085 F16K3/24 F16K3/32 F16K5/04
F16K5/08 (Advanced/Invention);
A61B17/00 A61G12/00 B24C9/00 (Advanced/Non-invention);
A47L11/00 A61B17/00 A61B17/32 A61B17/54 A61C3/02 A61G12/00
B24C5/00 B24C7/00 B24C9/00 F16K11/02 F16K3/00
F16K5/00 (Core/Invention)
International (IPC 1-7): A47L11/34 A61B17/00 A61B17/32
A61B17/54 A61C3/025 A61G12/00 B24B1/00 B24C1/08 B24C5/02
B24C7/00 B24C9/00 F16K3/24 F16K3/32 F16K5/04 F16K5/08
CPC: A61B17/545 B24C5/04 B24C7/0046 B24C7/0061
European: A61B17/54P B24C5/04 B24C7/00C B24C7/00C1E
US: 451/101 451/102 451/446 451/87 451/88 451/99



Family:

Publication number	Publication date	Application number	Application date
AR020229 AA	20020502	AR1999P104173	19990819
AT345089 E	20061215	AT19990650049T	19990614
AU199953458 A1	20000314	AU19990053458	19990809
AU199953458 A5	20000314	AU19990053458	19990809
AU2004201416 AA	20040429	AU20040201416	20040402
BRPI9916000 A	20020319	BR1999PI16000	19990819
CN1249983 A	20000412	CN19991018061	19990819
CN1811248 A	20060802	CN200510075940	19990819
DE69933977 D1	20061228	DE19996033977	19990614
EP0992221 A2	20000412	EP19990650049	19990614
EP0992221 A3	20000426	EP19990650049	19990614
EP0992221 B1	20061115	EP19990650049	19990614
IN00349KO2005 A	20081219	IN2005KO00349	20050425
IN00706CA1999 A	20051223	IN1999CA00706	19990816
IN201646 B	20070209	IN1999CA00706	19990816
JP2000061845 A2	20000229	JP19990224670	19990806
JP2003230562 A2	20030819	JP20020309712	20021024
JP2004245422 A2	20040902	JP20040058205	20040302
JP3572351 B2	20040929	JP19990224670	19990806
MXPA99007634 A1	20050603	MX19990007634	19990818
NZ509955 A	20021025	NZ19990509955	19990809
TW471955 B	20020111	TW19990114001	19990817
US6238275 BA	20010529	US19980136862	19980819
US6250996 BA	20010626	US19990449837	19991126
WO0010772 A2	20000302	WO1999US18062	19990809
WO0010772 A3	20000720	WO1999US18062	19990809

Priority:

US19980136862 19980819	JP19990224670 19990806	AU19990053458 19990809
WO1999US18062 19990809	US19990449837 19991126	AU19990053458 20000809
AU20040201416 20040402		

Probable Assignee: DERMAMED SOLUTIONS LLC

Assignee(s): (std): ALBA WESLEY METCALFE ; ALVA METCALF ; ALVA WESLEY METCALF ; AYVA WESLEY MCCARF ; CALVIN CARRIER ; CALVIN LON CARRIER ; CALVIN RON CARRIER ; METCALF ALVA WESLEY ; CARRIER CALVIN LON

Assignee(s): DERMAMED SOLUTIONS LLC ; METCALF ALVA WESLEY ; CARRIER CALVIN LON

Inventor(s): (std): AYVA WESLEY MCCARF ; CALVIN LON CARRIER ; CARRIER CALVIN LON ; CARVIN LONG CARRYE ; METCALF ALVA WESLEY ; MCCARF AYVA WESLEY ; LON METCALF ALVA WESLEY CARRIE ; CARRYE CARVIN LONG ; CALVIN RON CARRIER ; ALBA WESLEY METCALFE

Inventor(s): ALVA WESLEY METCALF ; ARRIER CALVIN LON ; METCALF ALVA WESLEY CARRIER CALVIN LON
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD
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 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 UZ VN YU ZA ZW

11) Family number: 15933553 (US6113473A)

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Title: METHOD AND APPARATUS FOR IMPROVED WIRE SAW SLURRY

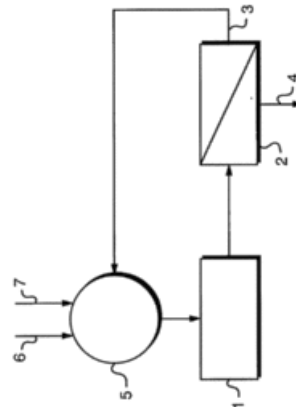
Abstract: A slurry recycle process for use in free-abrasive machining operations such as for wire saws used in wafer slicing of ingots, where the used slurry is separated into kerf-rich and abrasive-rich components, and the abrasive-rich component is reconstituted into a makeup slurry. During the process, the average particle size of the makeup slurry is controlled by monitoring the condition of the kerf and abrasive components and making necessary adjustments to the separating force and dwell time of the separator apparatus. Related pre-separator and post separator treatments, and feedback of one or the other separator slurry output components for mixing with incoming used slurry and recirculation through the separator, provide further effectiveness and additional control points in the process. The kerf-rich component is eventually or continually removed; the abrasive-rich component is reconstituted into a makeup slurry with a controlled, average particle size such that the products of the free-abrasive machining method using the recycled slurry process of the invention are of consistent high quality with less TTV deviation from cycle to cycle for a prolonged period or series of machining operations.

Classifications:

International (IPC 8-9): A61K38/24 B28D1/02 B28D5/00 C07K14/59 (Advanced/Invention); A61K38/24 B28D1/02 B28D5/00 C07K14/435 (Core/Invention)
International (IPC 1-7): A61K38/00 B24B7/19 B24B7/30
CPC: C07K14/59 B28D1/025 B28D5/007 Y02P70/179 A61K38/24
European: A61K38/24 B28D1/02B B28D5/00H3 C07K14/59
US: 125/21 451/446 451/60 451/87 451/88 514/15 514/16 514/17 514/2 530/324 530/328 530/329 530/330

PatBase - US6113473_A

U.S. Patent Sep. 5, 2000 Sheet 1 of 4 6,113,473



Family:

Publication number	Publication date	Application number	Application date
US6113473 A	20000905	US19980065769	19980424
US6331610 BA	20011218	US19970908371	19970807

Priority:

US19970044937P 19970425 US19970908371 19970807 US19980065769 19980424

Probable Assignee: GT EQUIPMENT TECHNOLOGIES INC

Assignee(s): (std): METATRON INC ; G T EQUIPMENT TECHNOLOGIES INC

Assignee(s): GT EQUIPMENT TECHNOLOGIES INC ; US DEPARTMENT OF ENERGY ; NHBDC VENTURE PARTNERS LP ; NHBDC VENTURE PARTNERS LP (A NEW HAMPSHIRE PARTNERSHIP) LTD ; NHBDC VENTURE PARTNERS LP A NEW HAMPSHIRE PARTNERSHIP LTD ; METRATON INC

Inventor(s): (std): BOURINBAIAR ALDAR S ; TALBOTT JONATHAN A ; PRASAD VISHWANATH ; LEYVRAZ PHILIPPE ; GUPTA KEDAR P ; COSTANTINI MICHAEL A ; CHANDRA MOHAN ; CASTER ALLISON

12) Family number: 28176443 (US2002014448A)

© PatBase

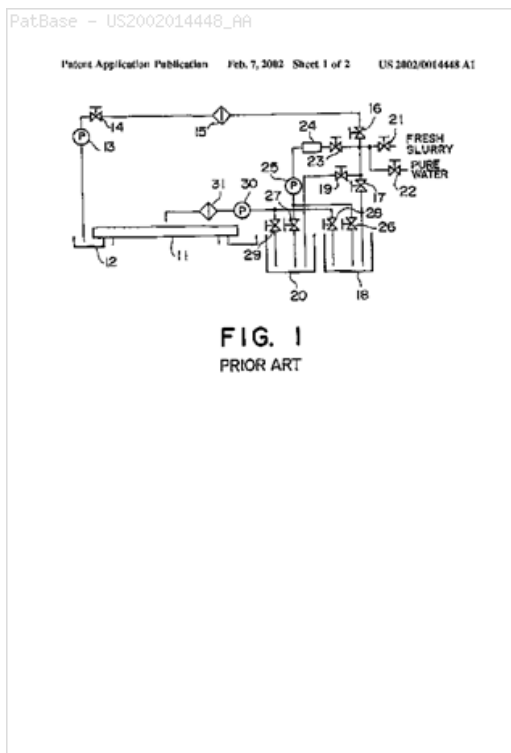
Title: GRINDING SLURRY RECYCLING APPARATUS

Abstract: An apparatus for recycling a grinding slurry capable of effectively removing unwanted components at a reduced cost. Slurry used in a grinding treatment is at first recovered as recovery slurry. The recovery slurry is then recycled so as to obtain recycled slurry. One or more cyclone separators are provided and used for sizing the used slurry to obtain slurry particles having a predetermined particle size. The slurry having the predetermined particle size is supplied as recovery slurry. When the recovery slurry is recycled to produce recycled slurry, one or more supersonic wave generators are used for irradiating supersonic waves to the recovery slurry.

Classifications:

International (IPC 8-9): B24B37/00 B24B37/04 B24B57/02 C08J11/00 H01L21/304 (Advanced/Invention); H01L21/304 (Advanced/Non-invention)

International (IPC 1-7): B01D21/26 B24B37/00 B24B37/04
B24B57/02 C08J11/00 H01L21/304
CPC: B24B37/04 B24B57/02
European: B24B37/04 B24B57/02
US: 210/167 210/167.31 210/194 210/195.1 210/243 210/252
210/512.1 210/512.100S 210/512.2 210/748 210/748.02



Family:

Publication number	Publication date	Application number	Application date
DE60127017 D1	20070419	DE20016027017	20010405
DE60127017 T2	20071213	DE20016027017T	20010405
EP1142672 A1	20011010	EP20010108620	20010405
EP1142672 B1	20070307	EP20010108620	20010405
JP2001287163 A2	20011016	JP20000104806	20000406
KR20010098452 A	20011108	KR20010018051	20010404
TW575478 B	20040211	TW20010108377	20010406
US2002014448 AA	20020207	US20010825935	20010405
US6547961 BB	20030415	US20010825935	20010405

Priority:

JP20000104806 20000406

Probable Assignee: RENESAS ELECTRONICS CORP

Assignee(s): (std): NEC CORP ; NEC ELECTRONICS CORP ; NEC ELECTRONICS INC ; TOYOKO KAGAKU KK ; TOYOKO KAGAKU CO LTD

Assignee(s): TOYOKO KAGAKU CO ; UTO MITSUYOSHI ; KONDO IKUYO ; KONDO NOBUKI ; NEC 7 1 SHIBA 5 CHOMEMINATO KU TOKYO TOYOKO ; RENESAS ELECTRONICS CORP

Inventor(s): (std): KONDO NOBUKI ; UTO MITSUYOSHI ; KONDO IKUYO

Inventor(s): NOBUKI KONDO ; MITSUYOSHI UTO

Designated states: DE GB

13) Family number: 28160846 (US2002011168A)

© PatBase

Title: LITHOGRAPHIC PRINTING PLATE SUPPORT AND METHOD OF MANUFACTURING THE SAME

Abstract: A lithographic printing plate support is provided which becomes a support of a PS plate which has excellent ability to withstand repeated printing, and in which defects in appearance, such as dirtying and the like, do not occur. Also provided are a method of manufacturing the lithographic printing plate support and a PS plate which has such merits.

Classifications:

International (IPC 8-9): B24B37/04 B24B57/02 B24D13/10

B41N1/08 B41N3/03 B41N3/04 C25D11/16 G03F7/00

G03F7/09 (Advanced/Invention);

B24B57/00 B41N1/00 B41N3/00 B41N3/03 C25D11/04 G03F7/00

G03F7/09 (Core/Invention)

International (IPC 1-7): B24B37/04 B24B57/02 B41F1/34 B41L5/16

B41N1/00 B41N1/08 B41N3/03 B41N3/04 C25D11/16 G03F7/00

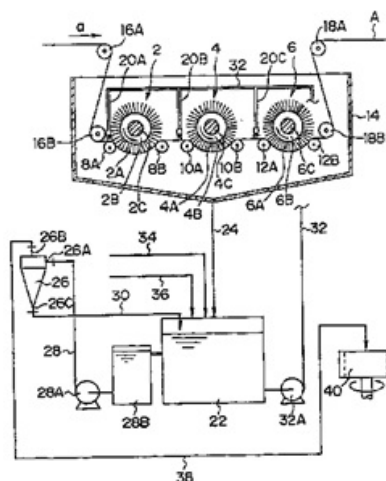
G03F7/09

CPC: Y10T428/12993 B41N3/04 B24B37/04 B24D13/10 Y02P70/177

European: B24B37/04 B24D13/10 B41N3/04

US: 101/453 101/458 101/480 428/687

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
AT293540 E	20050515	AT20010114166T	20010611
CN1192906 C	20050316	CN20011015759	20010608
CN1328921 A	20020102	CN20011015759	20010608
DE60110152 D1	20050525	DE20016010152	20010611
DE60110152 T2	20050929	DE20016010152T	20010611
EP1162081 A2	20011212	EP20010114166	20010611
EP1162081 A3	20031029	EP20010114166	20010611
EP1162081 B1	20050420	EP20010114166	20010611
JP2001347769 A2	20011218	JP20000173770	20000609
JP2001347770 A2	20011218	JP20000173771	20000609
JP2002011663 A2	20020115	JP20000191501	20000626
US2002011168 AA	20020131	US20010876996	20010611
US2004045466 AA	20040311	US20030418217	20030418
US6575094 BB	20030610	US20010876996	20010611
US6805051 BB	20041019	US20030418217	20030418

Priority:

JP20000173770 20000609 JP20000173771 20000609 JP20000191501 20000626
 US20010876996 20010611 US20030418217 20030418

Probable Assignee: FUJIFILM HOLDINGS CORP

Assignee(s): (std): FUJI PHOTO FILM CO LTD

Assignee(s): FUJIFILM CORP ; FUJIFILM HOLDINGS CORP ; FUJI PHOTO FILM CO

Inventor(s): (std): EIKI SANWA ; MATSUURA ATSUSHI ; MIWA HIDEKI ; MUTSUMI MATSUURA ; TERUYOSHI YASUTAKE ; UESUGI AKIO ; YASUTAKE TERUYOSHI ; MATSUURA MUTSUMI

Inventor(s): SANWA EIKI

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

14) Family number: 28997603 (US2005130564A)

© PatBase

Title: BLASTING MATERIALS AND METHOD OF BLASTING

Abstract: It is an object of the present invention to provide a blasting method and a shot material, which are very practical both in the cost and the treatment performance. (a) A shot material containing a styrene ion-exchange resin or a waste material caused therefrom, or/and a dried sludge-derived material, (b) a shot material containing a resin which is comprised of a resin containing a rubber component and a resin containing no rubber component, and (c) a shot material containing at least one component selected from the group consisting of an epoxy resin composition and inorganic filler, and a blasting method using the shot material.

Classifications:

International (IPC 8-9): B24B1/00 B24C1/00 B24C11/00 C09K3/14 (Advanced/Invention); B24C1/00 B24C11/00 C09K3/14 (Core/Invention)

International (IPC 1-7): B24B1/00 B24C1/00 B24C11/00 C09K3/14

CPC: B24C11/00 B24C11/005

European: B24C11/00 B24C11/00H

US: 451/36 451/38 451/39 525/70

Family:

Publication number	Publication date	Application number	Application date
CN1630572 A	20050622	CN20038003738	20030212

EP1481764 A1	20041201	EP20030705079	20030212
IN02108DN2004 A	20070907	IN2004DN02108	20040721
JP2003305651 A2	20031028	JP20020096980	20020329
JP2005319582 A2	20051117	JP20050180374	20050621
JP4353144 B2	20091028	JP20050180374	20050621
US2005130564 AA	20050616	US20040504304	20040811
US2007173181 AA	20070726	US20070697337	20070406
US7220165 BB	20070522	US20040504304	20040811
WO03068452 A1	20030821	WO2003JP01433	20030212

Priority:

JP20020034607 20020212 JP20020034611 20020212 JP20020096980 20020329
WO2003JP01433 20030212 US20040504304 20040811 JP20050180374 20050621
US20070697337 20070406

Probable Assignee: SONY CORP

Assignee(s): (std): HASEGAWA DAISUKE ; INAGAKI YASUHIRO ; KOMINE TETSUYA ; SAWAGUCHI MASAHIRO ; SONY CORP

Inventor(s): (std): DAISUKE HASEGAWA ; HASEGAWA DAISUKE ; INAGAKI YASUHIRO ; INAGAKI YASUSHI ; KOMINE TETSUYA ; MASAHIRO SAWAGUCHI ; SAWAGUCHI MASAHIRO ; TETSUYA KOMINE ; YASUHIRO INAGAKI

Agent(s): SONNENSCHN NATH AND ROSENTHAL LLP

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

15) Family number: 30516674 (US2004082279A)

© PatBase

Title: POLISHING AGENT AND LAPPING METHOD

Abstract: Disclosed are a polishing agent containing at least globular-silica powder and alumina powder, as well as a lapping method in which a workpiece is held between an upper turn table and a lower turn table and is lapped by rotating the upper and the lower turn tables while being supplied with a polishing agent, wherein the polishing agent supplied is the polishing agent containing at least globular-silica powder and alumina powder. Thus, there can be provided a polishing agent capable of further improving the quality, especially, the flatness of workpieces such as silicon wafers and capable of polishing the workpieces at an excellent polishing rate.

Classifications:

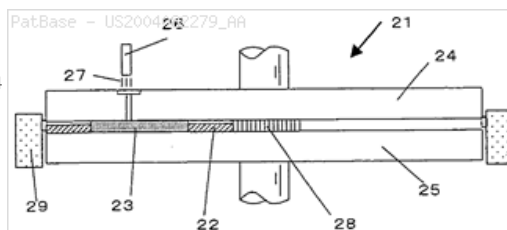
International (IPC 8-9): B24B1/00 B24B37/00 B24B37/04 C09K3/14 H01L21/304 (Advanced/Invention)

International (IPC 1-7): B24B1/00 B24B37/00 C09K3/14 H01L21/304

CPC: B24B37/044 C09K3/1454

European: B24B37/04B1 C09K3/14D

US: 451/262 451/268 451/287 451/36 451/41 451/41P 51/295



Family:

Publication number	Publication date	Application number	Application date
JP2004149582 A2	20040527	JP20020313589	20021029
US2004082279 AA	20040429	US20030687774	20031020
US6984167 BB	20060110	US20030687774	20031020

Priority:

JP20020313589 20021029

Probable Assignee: TATSUMORI LTD

Assignee(s): (std): NAOETSU ELECTRONICS CO LTD ; TATSUMORI KK ; TATSUMORI LTD

Inventor(s): (std): ASAHINA MASAYUKI

Agent(s): OLIFF AND BERRIDGE PLC

16) Family number: 31516884 (US2005098064A)

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Title: LITHIUM SILICATE MATERIALS

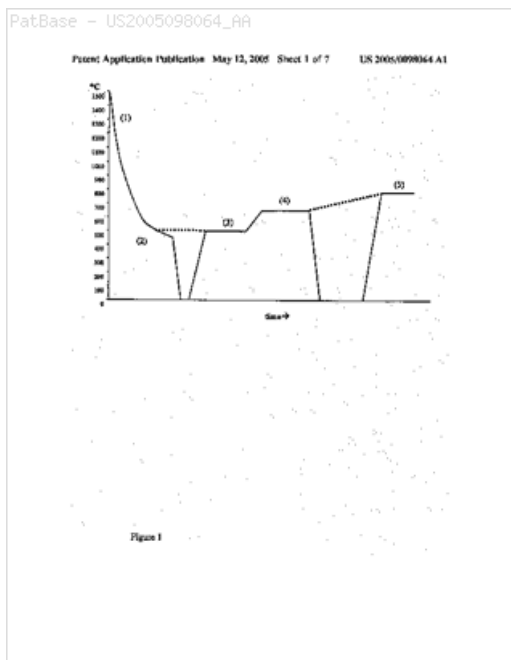
Abstract: Lithium silicate materials are described which can be easily processed by machining to dental products without undue wear of the tools and which subsequently can be converted into lithium silicate products showing high strength.

Classifications:

International (IPC 8-9): A61C13/00 A61C13/003 A61C13/08 A61C13/083 A61C13/09 A61C13/225 A61C13/38 A61C3/02 A61C5/00 A61C5/04 A61C5/08 A61C5/10 A61C5/50 A61C5/70 A61C5/77 A61C8/00 A61K6/00 A61K6/02 A61K6/027 A61K6/033 A61K6/04 A61K6/06 B24B49/00 B26D3/00 C01B33/20 C01B33/26 C01B33/32 C03B19/02 C03B27/012 C03B32/00 C03B32/02 C03C10/00 C03C10/04 C03C10/10 C03C10/12 C03C17/02 C03C19/00 C03C3/085 C03C3/097 C03C4/00 C04B35/16 (Advanced/Invention); A61C13/083 (Advanced/Non-invention); A61C5/08 (Core/Invention)

International (IPC 1-7): A61C13/00 A61C13/003 A61C13/083 A61C5/04 A61C5/08 A61K6/00 A61K6/02 A61K6/06 C01B33/20 C01B33/26 C01B33/32 C03C10/04 C03C3/083 C03C3/097 C03C10/006 C03C10/0036 A61K6/0005 C03C4/0021 C03C10/00 A61K6/0094 A61K6/0215 A61K6/024 C03B32/02 C03C10/0045 C03C10/0054 C01B33/32 A61C8/0012 A61C13/082 C03C2204/00 A61K6/0273 Y10T83/05 C03C3/097 C03C10/0027 A61C3/02 A61C13/0003 A61C13/083 A61K6/0612 A61C8/005

Y10T29/49567 C03C10/0009 C03B19/02 C03C17/02 A61C13/09
C03C2217/92 A61K6/0205 Y10T83/04 Y10T409/303752 A61K6/021
A61C8/0048 A61C8/0001 A61C5/77 A61C13/0022 A61C5/70
A61C13/0004 Y10T428/24479
European: A61C13/00C A61C13/00C1 A61C13/00C5 A61C3/02
A61C5/10 A61K6/027D C03C10/00 C03C10/00C2 C03C10/00E
C03C4/00B4 K61C13/00C5 K61C13/083
US: 1/1 106/35 106/35P 29/896.1 29/896.100P 29/896.100S
423/332 428/156 433/172 433/172P 433/201.1 433/202.1 433/203.1
433/215 433/215P 433/218 433/222.1 433/223 433/223S 451/10
451/11 451/5 451/57 451/65 501/154 501/2 501/32 501/4 501/4P
501/5 501/5P 501/5S 501/60 501/63 501/63S 501/68 501/68S
501/69 501/7 65/33.1 65/33.100S 65/33.4 65/33.400P 65/33.8
65/33.9 83/34 83/34S



Family:

Publication number	Publication date	Application number	Application date
AT553071 E	20120415	AT20040018339T	20040803
DE10336913 A1	20050317	DE20031036913	20030807
DE10336913 B4	20140109	DE20031036913	20030807
DE10336913 C5	20180503	DE20031036913	20030807
DE10362377 B3	20140109	DE20031062377	20030807
DE10362378 B3	20140109	DE20031062378	20030807
DE202004021964 U1	20130822	DE200420021964U	20040803
DE202004021965 U1	20130912	DE200420021965U	20040803
DE602004037247 D1	20120606	DE200460037247T	20040803
DE602004048483 D1	20160225	DE200460048483T	20040803
DE602010001645 D1	20120719	DE201060001645T	20100804
DK1688398 T3	20140721	DK20060002148T	20060202
DK2269960 T3	20160314	DK20100013142T	20040803
EP1505041 A1	20050209	EP20040018339	20040803
EP1505041 B1	20120411	EP20040018339	20040803
EP2269960 A2	20110105	EP20100013142	20040803
EP2269960 A3	20110511	EP20100013142	20040803
EP2269960 B1	20160106	EP20100013142	20040803
EP2284133 A2	20110216	EP20100013131	20040803
EP2284133 A3	20110511	EP20100013131	20040803
EP2298228 A1	20110323	EP20100171839	20100804
EP2298228 B1	20120523	EP20100171839	20100804
EP2305614 A2	20110406	EP20100013130	20040803
EP2305614 A3	20110511	EP20100013130	20040803
EP2479153 A2	20120725	EP20120163270	20040803
EP2479153 A3	20130424	EP20120163270	20040803
ES2489523 T3	20140902	ES20060002148T	20060202
ES2565514 T3	20160405	ES20100013142T	20040803
HU027211 T2	20161028	HU20100013142T	20040803
JP2005053776 A2	20050303	JP20040231738	20040806
JP2010168278 A2	20100805	JP20100043535	20100226
JP2011016720 A2	20110127	JP20100216160	20100927
JP2011062526 A2	20110331	JP20100210271	20100918
JP2015155374 A2	20150827	JP20150075963	20150402
JP2015227283 A2	20151217	JP20150134594	20150703
JP2017128502 A2	20170727	JP20170010380	20170124
JP4777625 B2	20110921	JP20040231738	20040806
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JP6322163 B2	20180509	JP20150134594	20150703
PT1688398 T	20140725	PT20060002148T	20060202
TR201603327 T4	20160421	TR20160003327T	20040803
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US2008125303 AA	20080529	US20070935203	20071105
US2009291820 AA	20091126	US20090509959	20090727
US2010058588 AA	20100311	US20090562348	20090918
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US2015094197 AA	20150402	US20140567173	20141211
US2015351880 AA	20151210	US20150826639	20150814
US2016106526 AA	20160421	US20150984490	20151230
US2016368814 AA	20161222	US20160255443	20160902
US7316740 BB	20080108	US20040913095	20040806
US7816291 BB	20101019	US20090509959	20090727
US7955159 BB	20110607	US20090562348	20090918
US8042358 BB	20111025	US20070935221	20071105
US8047021 BB	20111101	US20070935203	20071105
US8197299 BB	20120612	US20110096367	20110428
US8940651 BB	20150127	US20130940362	20130712
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US9434639 BB	20160906	US20140567173	20141211
US9918806 BB	20180320	US20150826639	20150814

Priority:

DE20031036913	20030807	DE20031062377	20030807	DE20031062378	20030807
DE200420021964U	20040803	DE200420021965U	20040803	EP20040018339	20040803
EP20100013142	20040803	JP20040231738	20040806	JP20100216160	20040806
US20040913095	20040806	JP20150134594	20040806	EP20050002588	20050208
DE200510028637	20050620	JP20120200384	20060206	US20060348053	20060206
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US20090509959	20090727	US20090562348	20090918	US20100833721	20100709
EP20100171839	20100804	US20100944578	20101111	US20110096367	20110428
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JP20150134594	20150703	US20150826639	20150814	US20150984490	20151230
US20160255443	20160902				

Probable Assignee: IVOCLAR VIVADENT AG

Assignee(s): (std): ASTER MARIUS ; BRODKIN DMITRI ; HEINZ MARKUS ; GORFER GEORG ; IVOCLAR VIVADENT AG ; SCHWEIGER MARCEL ; RINNER KLAUS

Assignee(s): IVOCLAR VIVADENT AG SCHAAN ; RHEINBERGER VOLKER M ; IVOCLAR VIVADENT SCHAAN AG ; HOLAND WOLFRAM ; BURKE HARALD

Inventor(s): (std): APEL ELKE ; BURKE HARALD ; HOELAND WOLFRAM DR PROF ; HOLAND WOLFRAM ; RHEINBERGER VOLKER ; RITZBERGER CHRISTIAN ; VAN T HOEN CHRISTIAN ; SIGNER APEL ELKE ; SCHWEIGER MARCEL DIPL ING ; SCHWEIGER MARCEL ; RINNER KLAUS ; RHEINBERGER VOLKER M ; RHEINBERGER VOLKER DR ; HOEN CHRISTIAN VAN T ; HOELAND WOLFRAM PROF DR ; HOELAND WOLFRAM ; HEINZ MARKUS ; BUERKE HARALD DR ; BUERKE HARALD ; BRODKIN DMITRI ; ASTER MARIUS ; T HOEN CHRITIAN VAN ; GORFER GEORG

Inventor(s): ELKE APEL ; CHRISTIAN VAN T HOEN ; SCHWEIGER MARCEL 7000 ; RINNER KLAUS 39025 ; HEINZ MARKUS 39025 ; GORFER GEORG 39025 ; ASTER MARIUS 39025 ; HARALD BUERKE ; MARCEL SCHWEIGER ; WOLFRAM HOELAND ; VOLKER RHEINBERGER

Agent(s): UEXKUELL AND STOLBERG; SPLANEMANN PATENTANWALTE PARTNERSCHAFT; BARONETZKY KLAUS; CURELL MIREIA; HALISE BETUEL ATABAY VARLIK; JOSEPH M NOTO NIXON PEABODY LLP; NIXON PEABODY LLP - PATENT GROUP; NIXON PEABODY LLP PATENT GROUP; BOND SCHOENECK AND KING PLLC; NIXON PEABODY LLP; ANN M; THAD G; HODGSON RUSS LLP; THAD

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

17) Family number: 31574974 (US2005036928A)

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Title: CERIUM OXIDE POWDER

Abstract: Polycrystalline cerium oxide powder in the form of aggregates of primary particles with a specific surface of between 70 and 150 m²/g, an average primary particle diameter of between 5 and 20 nm and an average, projected aggregate diameter of between 20 and 100 nm. It is produced in that an aerosol is reacted in a flame obtained from a hydrogen-containing combustible gas and primary air and the solid obtained is then separated from the gaseous substances.

Classifications:

International (IPC 8-9): B01J23/10 B01J35/02 B01J35/10 B01J37/00 B01J37/02 B24B1/00 C01F1/00 C01F17/00 C09G1/18

C09K3/14 (Advanced/Invention);

C01F17/00 (Advanced/Non-invention);

B01J23/10 B01J35/00 B01J37/00 B24B1/00 C01F1/00 C01F17/00

C09G1/00 C09K3/14 (Core/Invention)

International (IPC 1-7): B01J23/10 B01J35/10 B01J37/00 C01F17/00 C09K3/14 H01L21/302

CPC: Y10S977/773 Y10S977/775 Y10S977/811 B82Y30/00

B01J23/10 B01J35/023 B01J35/1014 B01J35/1019 B01J37/0238

C01F17/0043 C01P2002/60 C01P2002/76 C01P2004/04

C01P2004/50 C01P2004/64 C01P2006/10 C01P2006/11

C01P2006/12 C01P2006/14 C01P2006/17 C01P2006/80 C09K3/1409

C09K3/1463

European: B01J23/10 B01J35/02B B01J37/02G B82Y30/00

C01F17/00F C09K3/14B C09K3/14D2 L01J35/10A4 L01J35/10A6

M01P2/60 M01P2/76 M01P4/04 M01P4/50 M01P4/64 M01P6/10

M01P6/11 M01P6/12 M01P6/14 M01P6/17 M01P6/80

US: 106/3 204/157.42 423/263 423/263P 51/309 51/309 524/492

524/493 977/773 977/775 977/811

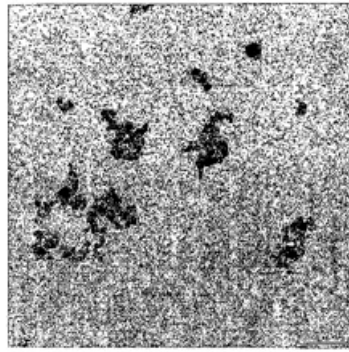


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AT538071 E	20120115	AT20040012835T	20040529
CN100368299 C	20080213	CN200410057425	20040812
CN1579945 A	20050216	CN200410057425	20040812
DE10337199 A1	20050310	DE20031037199	20030813
DE502004013164 D1	20120322	DE200450013164T	20040529
EP1506940 A1	20050216	EP20040012835	20040529
EP1506940 B1	20111221	EP20040012835	20040529
IL163462 A1	20080807	IL20040163462	20040811
JP2005060222 A2	20050310	JP20040233631	20040810
JP4215692 B2	20090128	JP20040233631	20040810
KR100604298 B1	20060728	KR20040063423	20040812
KR20050018754 A	20050228	KR20040063423	20040812
SG109540 A1	20050330	SG20040004340	20040729
TW200510251 A	20050316	TW20040124078	20040811
TWI294409 B	20080311	TW20040124078	20040811
US2005036928 AA	20050217	US20040887819	20040712
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Priority:

DE20031037199 20030813 EP20040012835 20040529

Probable Assignee: EVONIK DEGUSSA GMBH**Assignee(s):** (std): DEGUSSA ; DEGUSSA AG ; EVONIK DEGUSSA GMBH**Assignee(s):** DEGUSSA AKTIENGESSELLSCHAFT ; DEGUSSA GMBH

Inventor(s): (std): DR MICHAEL KROLL ; EDWIN STAAB ; HEBERER STEFAN ; KATUSIC STIPAN ; KRAEMER MICHAEL ; KRESS PETER ; KROELL MICHAEL ; KROELL MICHAEL DR ; MICHAEL KRAEMER ; MICHAEL KRAMER ; PETER KRESS ; STAAB EDWIN ; STEFAN HEBERER ; STIPAN KATUSIC ; KROLL MICHAEL ; KRES PETER ; KRAMER MICHAEL ; HERBERER STEFAN

Agent(s): REINHOLD COHN AND PARTNERS; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC**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**18) Family number: 42677417** (US2009068930A)

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Title: ABRASIVE CLEANING AGENT, METHOD FOR MANUFACTURING THE SAME, AND METHOD FOR POLISHING USING ABRASIVE CLEANING AGENT

Abstract: An abrasive cleaning agent is provided which can be used for a polishing process for polishing a surface of a workpiece to form a mirror surface, which suppresses generation of static electricity and adhesion of stains to the workpiece, which decreases a crushing ratio, and which has a low environmental burden when the abrasive cleaning agent is disposed of. The above abrasive cleaning agent includes an elastic material containing a soluble nitrogen substance as a primary component, which is obtained from tubers of devil's tongue and which contains mannan as a primary component, and a 10 percent to 30 percent of water; and 1 to 30 percent by weight, with respect to the elastic material, of abrasive grains of size #220 or less, which are supported on surfaces of the elastic material and/or are buried therein, so that the grain diameter on the whole is in the range of 88 to 1,190 micro m.

Classifications:

International (IPC 8-9): B24B57/02 B24C1/08 B24C11/00 B24D3/02
C09C1/68 C09G1/02 C09G1/16 C09K3/14

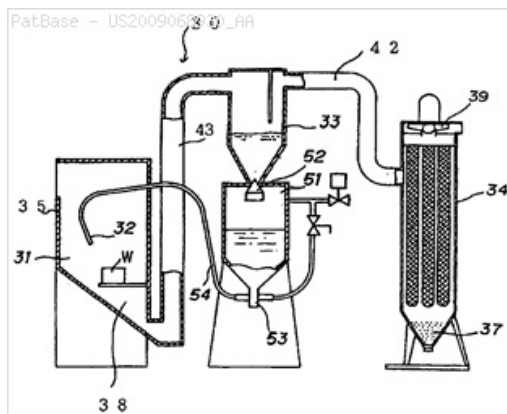
C11D9/20 (Advanced/Invention);
B24B57/00 B24C1/00 B24C11/00 C09G1/00
C09K3/14 (Core/Invention);

B24B B24C C09G (Subclass/Invention)

CPC: B24C11/005 B24C1/083 B24C1/086 B24C11/00

European: B24C1/08B B24C1/08D B24C11/00

US: 451/39 451/39P 51/302 51/302S 51/307 510/395



Family:

Publication number	Publication date	Application number	Application date
CN101328390 A	20081224	CN200810099735	20080602
CN101328390 B	20120606	CN200810099735	20080602
DE602008001206 D1	20100624	DE200860001206T	20080506
EP2006053 A1	20081224	EP20080008481	20080506
EP2006053 B1	20100512	EP20080008481	20080506
HK1124634 A1	20121109	HK20090101784	20090225
JP2009000766 A2	20090108	JP20070162846	20070620
JP4290752 B2	20090708	JP20070162846	20070620
KR101205190 B1	20121127	KR20080057133	20080618
KR20080112116 A	20081224	KR20080057133	20080618
TW200936319 A	20090901	TW20080115524	20080428
TWI365791 B	20120611	TW20080115524	20080428
US2009068930 AA	20090312	US20080214705	20080619
US2013288945 AA	20131031	US20130927282	20130626
US8529650 BB	20130910	US20080214705	20080619
US8652227 BB	20140218	US20130927282	20130626

Priority:

JP20070162846 20070620 US20080214705 20080619 US20130927282 20130626

Probable Assignee: FUJI KIHAN CO LTD

Assignee(s): (std): FUJI KIHAN CO LTD ; FUJI KIHAN KK ; FUJIKIHAN KK ; MIYASAKA YOSHIO

Assignee(s): FUJI KIHAN CO ; KABUSHIKI KAISHA FUJIKIHAN

Inventor(s): (std): MIYASAKA YOSHIO ; YOSHIO MIYASAKA

Agent(s): GARAVELLI PAOLO; DONN K HARMS PATENT AND TRADEMARK LAW CENTER; COOPER LEGAL GROUP LLC

Designated states: AL BA DE FR GB MK RS

19) Family number: 43087862 (WO09041888A1)

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Title: METHOD AND DEVICE FOR CREATING A STREAM OF AIR FOR REMOVING RESIDUE PARTICLES FORMED IN CONNECTION WITH CUTTING, GRINDING AND/OR POLISHING OF A STONE OR STONE-LIKE MATERIAL

Abstract: A method for creating a stream of air for removing residue particles formed in connection with cutting, grinding and/or polishing of a stone or stone-like material is disclosed. The method comprising energizing an electric motor (27) to drive an impeller (26) to create the stream of air, the electric motor being energized by an alternating current (Id); and setting a frequency (fd) of said alternating current in response to a desired current value of the alternating current. There is also disclosed a device adapted to carry out the method. The method allows for a stream of air that is efficient in removing particles of the above kind and origin, and which creation is virtually independent on the available mains power. A large air flow can be provided during normal operation and a large underpressure can be provided for filter cleaning maintenance.

Classifications:

International (IPC 8-9): A47L9/16 A47L9/28 B04C11/00 B24B55/10

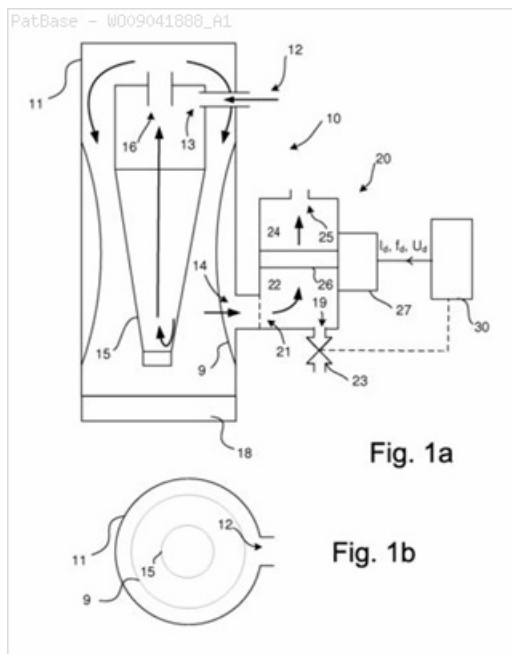
B24B7/18 H02P7/00 (Advanced/Invention);

A47L9/10 A47L9/28 B04C11/00 B24B55/00 B24B7/00

H02P7/00 (Core/Invention)

CPC: B24B7/18 B24B55/102

European: B24B55/10B B24B7/18



Family:

Publication number	Publication date	Application number	Application date
WO09041888 A1	20090402	WO2008SE51032	20080915

Priority:

SE20070002196 20070928

Probable Assignee: HTC SWEDEN AB

Assignee(s): (std): HTC SWEDEN AB ; SUNESESSON JOHAN

Inventor(s): (std): SUNESESSON JOHAN

Agent(s): IPENDO AB

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

20) Family number: 43712526 (US2011006018A)

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Title: HIGH VISCOSITY FLUID FILTERING SYSTEM

Abstract: There is provided herein a system for filtering oils and/or emulsions including one or more filtering devices comprising stacked filtering elements configured to filter oils and/or emulsions, one or more tanks configured to hold oils and/or emulsions, and one or more pumps configured to pump oils and/or emulsions.

Classifications:

International (IPC 8-9): B01D B01D17/04 B01D25/00 B01D29/46

B01D29/66 B01D35/00 B01D35/02 B01D36/02 B01D37/00

B01D69/10 B23Q11/00 (Advanced/Invention);

B01D17/04 B01D35/00 B24B55/12 (Advanced/Non-invention);

B01D25/00 B01D69/00 (Core/Invention);

B01D35/00 B01D37/00 (Core/Non-invention);

B01D (Subclass/Invention)

CPC: B01D29/46 B01D29/35 B01D2201/60

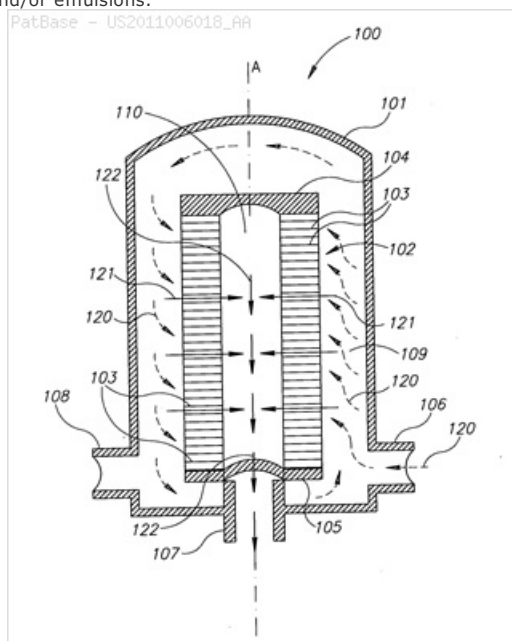
European: B01D29/35 L01D201/60

US: 210/143 210/143S 210/257.1 210/257.100S 210/295 210/295S

210/323.1 210/323.100S 210/333.01 210/333.010S 210/335

210/335S 210/340 210/340S 210/411 210/411S 210/416.5

210/416.500S 210/767 210/767S 210/806



Family:

Publication number	Publication date	Application number	Application date
CN102006916 A	20110406	CN200880128649	20080306

EP2274082 A2	20110119	EP20080719931	20080306
EP2274082 A4	20110622	EP20080719931	20080306
IL207939 A0	20101230	IL20080207939	20080306
IN06948DN2010 A	20111125	IN2010DN06948	20101001
JP2011515206 T2	20110519	JP20100549251T	20080306
KR20100121689 A	20101118	KR20107022276	20080306
TW200946204 A	20091116	TW20090107182	20090305
US2011006018 AA	20110113	US20080920936	20080306
WO09109956 A2	20090911	WO2008IL00306	20080306
WO09109956 A3	20100218	WO2008IL00306	20080306

Priority:

WO2008IL00306 20080306

Probable Assignee: AMIAD FILTRATION SYSTEMS LTD

Assignee(s): (std): AMIAD FILTRATION SYSTEMS LTD ; ARKAL FILTRATION SYS CS LTD ; AMIAD FILTRATION SYSTEMS 1997 LTD ; POMERANTZ ITAI ; BEN HORIN RAANAN

Assignee(s): ARKAL FILTRATION SYSTEMS C S LTD ; ARKAL FILTRATION SYSTEMS CS LTD

Inventor(s): (std): BEN HORIN RAANAN ; ITAI POMERANTZ ; POMERANTZ ITAI ; RAANAN BEN HORIN

Agent(s): MODIANO MICAELA NADIA; THE NATH LAW GROUP; NATH LAW GROUP; EITAN MEHULAL LAW GROUP 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

21) Family number: 49315845 (EP2347857A3)

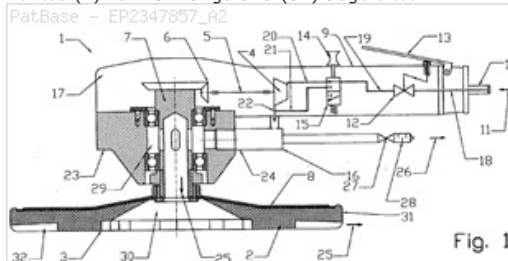
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Title: COMPRESSED AIR-POWERED MACHINE, PRIMARILY FOR POLISHING OR GRINDING A WORKPIECE WITH COOLING THEREOF, GENERATED FROM UNUSED DRIVE ENERGY MACHINE A AIR COMPRIME, PRINCIPALEMENT POUR POLIR OU MEULER UNE PIECE USINEE AVEC UN REFOUILLISSEMENT DE CELLE-CI, PRODUITE PAR L'ENERGIE D'ENTRAINEMENT NON UT

Abstract: Source: EP2347857A3 [DE] Eine Maschine (1) zur Bearbeitung eines Werkstueckes mit einem Werkzeug (2), das eine Relativbewegung gegenueber dem Werkstueck ausuebt und das Werkzeug und/oder Werkstueck zeitgleich kuehlt. Insbesondere soll die Maschine (1) in Form einer Druckluftmaschine (1) zum Polieren oder Schleifen lackierter Oberflaechen dienlich sein, wobei das durch den Druckluftantrieb (4) der Druckluftmaschine (1) rotierbare Polierkissen bzw. Schleifelement (2) mit seiner Unterflaeche (3) in Anlage an die zu polierende bzw. schleifende Oberflaeche gebracht wird. Zur Erhoehung des Wirkungsgrads einer derartigen Druckluftmaschine (1) wird vorgeschlagen, dass die Abluft des Druckluftantriebes (4) einem Wirbelrohr (16) zugefuehrt wird und dort in einen kalten (25) bzw. warmen (26) Gasstrom geteilt wird. Der kalte Gasstrom (25) wird mittels einer zweiten Gasleitvorrichtung (7,23,29) zum Polierkissen bzw. Schleifelement (2) geleitet und dort an der Unterflaeche (3) des Polierkissens bzw. Schleifelementes (2) mittels ausgebildeter Kanale (32) vom mittleren Bereich des Polierkissens bzw. Schleifelementes (2) zum Umfangsrand (31) abgeleitet.

Classifications:

International (IPC 8-9): B24B23/00 B24B23/02 B24B55/02 B24D13/14 B24D13/18 B24D7/10 B25F5/00 (Advanced/Invention)
CPC: B24B23/028 B24B55/02 B24D7/10 B24D13/14 B24D13/18 B25F5/008 B24B23/026
European: B24B23/02D B24B23/02E B24B55/02 B24D13/14 B24D13/18 B24D7/10



Family:

Publication number	Publication date	Application number	Application date
DE102010006122 A1	20110728	DE201010006122	20100126
DE202010018406 U1	20160630	DE201020018406U	20100126
EP2347857 A2	20110727	EP20100015652	20101215
EP2347857 A3	20141001	EP20100015652	20101215

Priority:

DE201010006122 20100126 DE201020018406U 20100126

Probable Assignee: KOCHANSKI

Assignee(s): (std): KOCHANSKI BORIS ; KOCHANSKI BORIS DIPL ING

Assignee(s): KOCHANSKI

Inventor(s): (std): KOCHANSKI BORIS DIPL ING ; KOCHANSKI BORIS

Agent(s): LELGEMANN KARL HEINZ

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

22) Family number: 49512342 (US2012315739A)

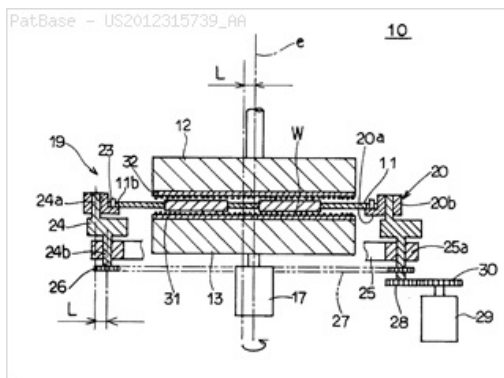
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Title: MANUFACTURING METHOD FOR SEMICONDUCTOR WAFER

Abstract: All treatments performed in machining processes other than a polishing process are performed while pure water free from free abrasive grains is supplied. Thus, an amount of abrasive grains included in a used processing liquid discharged in each process is reduced and semiconductor scraps are collected from the used slurry for recycling.

Classifications:

International (IPC 8-9): B24B27/06 B24B37/04 B24B37/08 B24B37/10 B24B37/24 B24B55/02 B24B55/12 B24B57/00 B24B7/17 B28D5/04 B28D7/02 H01L21/304 H01L21/78 (Advanced/Invention)
CPC: B24B37/042 B24B9/065 B24B27/0633 B24B37/08 B24B37/245 H01L21/02008 H01L21/02013 H01L21/02021 H01L21/02024 B28D5/0076
European: B24B37/04B B24B37/08 B24B37/24F H01L21/02D2M H01L21/02D2M2A H01L21/02D2M2E
US: 257/E21.599 438/460



Family:

Publication number	Publication date	Application number	Application date
DE112011100688 T5	20130228	DE201111100688T	20110216
JP2011105255 A1	20130620	JP20120501747T	20110216
KR20120091371 A	20120817	KR20127015531	20110216
US2012315739 AA	20121213	US20110581011	20110216
WO11105255 A1	20110901	WO2011JP53193	20110216

Priority:

JP20100043150 20100226 WO2011JP53193 20110216

Probable Assignee: SUMCO CORP

Assignee(s): (std): HASHII TOMOHIRO ; KAKIZONO YUICHI ; KUROSAWA YOSHIKI ; SUMCO CORP

Assignee(s): N A

Inventor(s): (std): HASHII TOMOHIRO ; KAKIZONO YUICHI ; KUROSAWA YOSHIKI

Agent(s): ABE ITSUROU

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

23) Family number: 50546922 (DE102010033041A1)

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Title: METHOD FOR SMOOTHING POST-PROCESSING OF E.G. GLASS PANE, INVOLVES MOVING MATERIAL REMOVAL TOOLS WITH DIFFERENT PROCESS PARAMETERS ALONG PRE-DESIGNATED TRAJECTORIES OVER SURFACE OF PANE SUCH THAT TRAJECTORIES OVERLAP WITH EACH OTHER

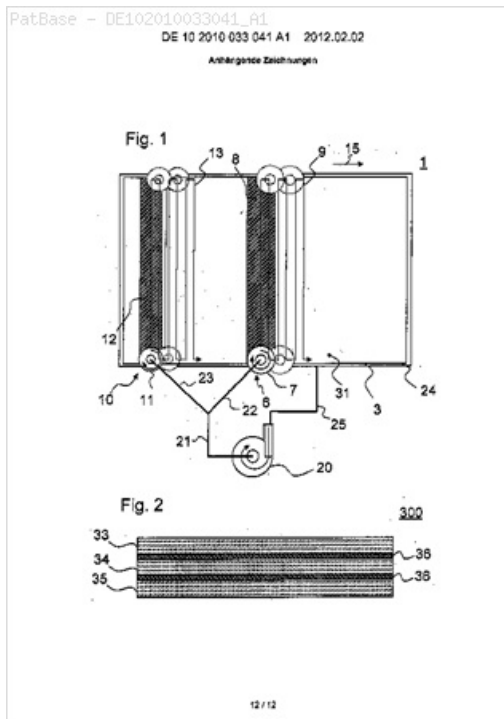
Abstract: The method involves moving material removal tools (6,10) having different process parameters along pre-designated trajectories (8) over a surface (31) of glass or glass-ceramic pane (3) such that trajectories of the tools overlap with each other. The abrasives on the pane surface are grinded and slurry is produced between removal surfaces (7,11) of tools and pane surface. Coolant is introduced with respect to the removal surface. An independent claim is included for device for smoothing post-processing of glass or glass-ceramic pane.

Classifications:

International (IPC 8-9): B24B37/04 B24B7/22

B24B7/24 (Advanced/Invention)

CPC: B24B7/22 B24B7/24 B24B7/241



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE201010033041 20100802

Probable Assignee: SCHOTT AG**Assignee(s):** (std): SCHOTT AG**Inventor(s):** (std): HANSEN ROLF ; KRIPPEIT BERN ; PLAPPER VOLKER DR ; SPEIT BURKHARD DR**Inventor(s):** SPEIT BURKHARD ; PLAPPER VOLKER**24) Family number: 52833963** (US2013023187A)

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Title: METHOD FOR GRINDING SIDE PORTION OF HARD, BRITTLE MATERIAL SUBSTRATE

Abstract: An elastic abrasive with abrasive grains dispersed in or adhered to an elastic base material is ejected toward a side portion of a substrate together with compressed air. The elastic abrasive is ejected toward a predetermined processing area centered on a processing point in an ejection direction that intersects a widthwise line at the processing point and that forms a predetermined inclination angle selected from a range of 2 degrees to 60 degrees relative to a contact line. Moreover, an ejection nozzle and the workpiece are moved relatively to each other so that the processing area is moved at a fixed speed in a circumferential direction of the workpiece and so that the ejection direction is maintained at each processing point after moving. If multiple stacked substrates are to be processed, the processing area is moved at a fixed speed also in a widthwise direction of the substrates.

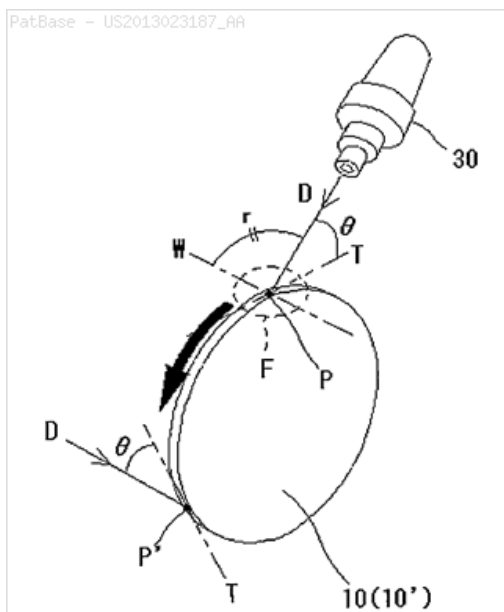
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B24C1/04 B24C5/02 B24C5/04 G11B5/84 (Advanced/Invention);

B24C3/22 (Advanced/Non-invention)

CPC: B24C3/22 B24C1/04**US:** 451/38

PatBase - US2013023187_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN102886743 A	20130123	CN201210254336	20120720
CN102886743 B	20170609	CN201210254336	20120720
JP2013022684 A2	20130204	JP20110160147	20110721
JP5793014 B2	20151014	JP20110160147	20110721
KR101838600 B1	20180314	KR20120077522	20120717
KR20130012052 A	20130131	KR20120077522	20120717
US2013023187 AA	20130124	US20120534077	20120627
US9815173 BB	20171114	US20120534077	20120627

Priority:

JP20110160147 20110721

Probable Assignee: FUJI MFG CO LTD**Assignee(s):** (std): FUJI MFG CO LTD ; MASE KEIJI ; ISHIBASHI SHOZO**Assignee(s):** FUJI SEISAKUSHO KK ; FUJI MANUFACTURING CO LTD ; FUJI MFG CO**Inventor(s):** (std): ISHIBASHI SHOZO ; MASE KEIJI**Agent(s):** COOPER LEGAL GROUP LLC**25) Family number: 53029160** (WO13020161A1)

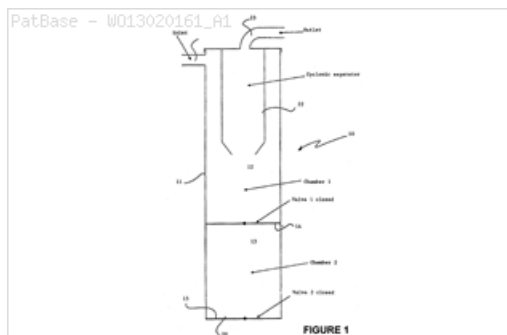
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Title: PARTICLE COLLECTION APPARATUS

Abstract: An apparatus for collecting particles from a mixture of particles and air and then discharging of the collected particles, the apparatus comprising: a first chamber in which the particles are separated from the mixture and a second chamber in which the separated particles are collected, the first and second chambers being in communication with each other, the second chamber having an outlet for discharging the collected particles therethrough; a first gate between the first chamber and the second chamber, the first gate having an open condition in which the separated particles are allowed to flow from the first chamber to the second chamber and a closed condition in which the separated particles are substantially prevented from flowing from the first chamber to the second chamber; and a second gate in the outlet of the second chamber having an open condition in which the collected particles are allowed to be discharged from the second chamber and a closed condition in which the collected particles are substantially prevented from leaving the second chamber, the second gate operable to be able to adopt its open condition when the first gate is in its closed condition.

Classifications:

International (IPC 8-9): B01D45/00 B04C5/187
B24B55/06 (Advanced/Invention)
CPC: B24B55/06 B04C5/15 B04C5/187 B01D45/12

**Family:**

Publication number	Publication date	Application number	Application date
AU2012101907 AD	20140403	AU20120101907	20120725
AU2012101907 AF	20140925	AU20120101907	20120725
AU2012292944 AA	20130214	AU20120292944	20120725
WO13020161 A1	20130214	WO2012AU00885	20120725

Priority:

AU20110903172 20110808 AU20120101907 20120725 WO2012AU00885 20120725
AU20120292944 20120725

Probable Assignee: VEEN HOLDINGS PTY LTD

Assignee(s): (std): VAN DER VEEN TIM ; VEEN HOLDINGS PTY LTD ; VEEN TIM VAN D

Inventor(s): (std): VAN DER VEEN TIM ; VEEN TIM VAN D

Agent(s): GRIFFITH HACK; GRIFFITH HACK AND CO

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 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

26) Family number: 54823035 (US2013252519A)

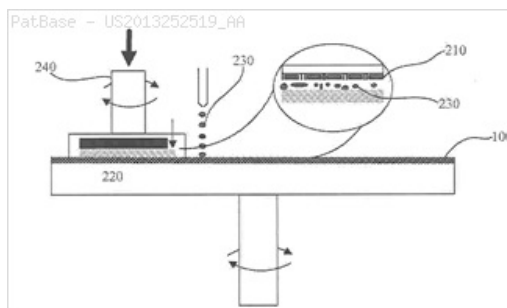
© PatBase

Title: SELF-CONDITIONING POLISHING PAD AND A METHOD OF MAKING THE SAME

Abstract: The present invention is directed to a self conditioning polishing pad. The self-conditioning polishing pad comprises an insoluble polymeric foam matrix and insoluble polymeric foam particles within the foam matrix. The particles are coated with a water-soluble component over a portion of the surface area of the particle. The particles may have a diameter in the range of 5 to 1000 microns in diameter.

Classifications:

International (IPC 8-9): B24B37/24 B24B37/26 B24D11/00
B32B5/22 C08J9/35 H01L21/304 (Advanced/Invention)
CPC: B24B37/26 C08J9/35 C08J2203/10 C08J2203/142 B24B37/24
US: 1/1 451/526 51/296

**Family:**

Publication number	Publication date	Application number	Application date
CN104302446 A	20150121	CN201380015440	20130312
CN104302446 B	20171031	CN201380015440	20130312
JP2015510847 T2	20150413	JP20150501730T	20130312
JP6078631 B2	20170208	JP20150501730T	20130312
KR101532896 B1	20150630	KR20147029262	20130312
KR20140130240 A	20141107	KR20147029262	20130312
TW201347907 A	20131201	TW20130108998	20130314
TWI574782 B	20170321	TW20130108998	20130314
US2013252519 AA	20130926	US20130797121	20130312
US9050697 BB	20150609	US20130797121	20130312
WO13142134 A1	20130926	WO2013US30353	20130312

Priority:

US20120613398P 20120320 US20130797121 20130312 WO2013US30353 20130312

Probable Assignee: JH RHODES CO INC

Assignee(s): (std): J H RHODES INC ; JH RHODES CO INC

Assignee(s): JH RHODES INC

Inventor(s): (std): DASKIEWICH SCOTT B

Agent(s): SNELL AND WILMER LLP; PLATT JOHN 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR

27) Family number: 62326631 (US2016129478A)

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Title: APPARATUS AND METHOD FOR SILICON POWDER MANAGEMENT

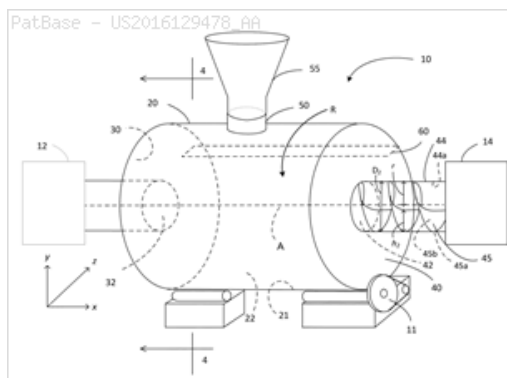
Abstract: Methods and apparatus for separating polysilicon powder from a mixture of granular polysilicon and polysilicon powder are disclosed. The method includes tumbling the polysilicon material in a tumbling device. The tumbling device includes a tumbler drum having one or more lifting vanes spaced apart from one another and extending longitudinally along an interior surface of the tumbler drum. The lifting vanes facilitate separation of polysilicon powder and granules as the tumbler drum is rotated about its longitudinal axis of rotation.

Classifications:

International (IPC 8-9): B07B4/06 B07B7/083 B24B31/02
B24B31/12 C01B33/02 C04B35/01 C04B35/14 (Advanced/Invention)

CPC: B07B4/06 C01B33/02

US: 1/1 209/11 209/134



Family:

Publication number	Publication date	Application number	Application date
CN105797959 A	20160727	CN201410853045	20141231
IN201717019307 A	20170915	IN201717019307	20170601
KR20170084154 A	20170719	KR20177015345	20141216
TW201617169 A	20160516	TW20140143255	20141211
US2016129478 AA	20160512	US20140536496	20141107
US9440262 BB	20160913	US20140536496	20141107
WO16073015 A1	20160512	WO2014US70599	20141216

Priority:

US20140536496 20141107 WO2014US70599 20141216

Probable Assignee: REC SILICON INC

Assignee(s): (std): REC SILICON INC

Inventor(s): (std): GEERTSEN ROBERT J

Agent(s): KLARQUIST SPARKMAN LLP; GARDNER GILLIAN

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