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Search 2: TAC=(rivet* and electrom*) (Results 3321)
Search 3: 2 and pedal (Results 39)
Search 4: TAC=(rivet* and electrom*) and IC=(B) (Results 954)
Search 5: 4 and piston (Results 94)
Search 6: 5 and (base or structure) (Results 40)
Search 7: PN=(CN105328049 A OR CN105344845 A) (Results 2)
Search 8: TAC=(rivet*) and IC=(B30) (Results 348)
Search 9: 8 and bench (Results 1)
Search 10: PN=(CN102248693 A OR CN102248693 B OR CN102241146 A OR CN102886558 A OR CN102886558 B OR CN103200781 A OR CN103200781 B OR CN104890045 A) (Results 5)
Search 11: 8 and electrom* (Results 8)
Search 12: TAC=(rivet* and electrom*) (Results 3321)
Search 13: 12 and (structure or base or bench) (Results 1470)
Search 14: 13 and pedal (Results 15)
Search 15: 14 or PN=(CN201158153) (Results 16)

1) Family number: 30002503 (US2001056544A)

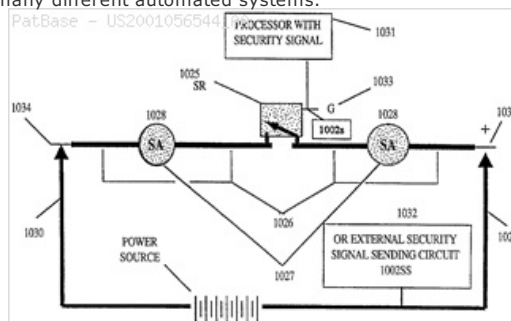
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Title: ELECTRICALLY CONTROLLED AUTOMATED DEVICES TO OPERATE, SLOW, GUIDE, STOP AND SECURE, EQUIPMENT AND MACHINERY FOR THE PURPOSE OF CONTROLLING THEIR UNSAFE, UNATTENDED, UNAUTHORIZED, UNLAWFUL HAZARDOUS AND/OR LEGAL USE, WITH REMOTE CONTROL AND ACCOUNTABILITY WORLDWIDE

Abstract: Source: US2001056544A This application describes completely in many unique ways and detail all the devices to reduce a vehicle's speed and/or reduce a machines RPM's and/or stop any piece of equipment's as well as guide it if mobile through automated controls. First to slow it down, and guide it and/or control it if necessary (i.e., other pieces of equipment). Secondly it discusses how to stop any piece of equipment completely. And thirdly, the invention secures it in a safe stationary position either entirely or any number of specific moving parts. Many of these systems are initially here described to slow, reduce speed, steer, stop and/or secure equipment functions. However, they also can be used to increase a piece of equipment's functions. In other words their variations are completely capable to serve any remote or automated controls on a vehicle in the future to provide full robotics systems, e.g., for automated transportation systems, automated manufacturing, etc., either through individually isolated remote control systems and/or interfaced with other off-board systems through communication links, gateway computers, computer networks and the world wide web for inexpensive long distance monitoring and remote control. The invention focuses on the automobile industry but as has always been maintained throughout all these applications these devices and systems are designed to control every piece of equipment. The invention includes various accountable protocols and commercial developments to control speed, brake and steering for an automobile shut down to be performed through automation to a safe controlled secured deactivated state to be considered as a basis for a standard in aggressive vehicle remote control and/or to control and guide a vehicle and/or piece of equipment through many different automated systems.

Classifications:

International (ipc 8-9): B29C65/00 B32B37/00 B60R25/00 B60R25/02 B60R25/04 B60R25/042 B60R25/08 B60R25/10 B60R25/102 B60R25/25 B60R25/30 B60R25/33 B61C17/12 B61G5/10 B67D5/36 B67D7/04 B67D7/38 C04B37/00 E06B1/56 E06B5/11 F17D1/08 G01C21/34 G01S5/02 G05B11/01 G05B15/00 G05B23/02 G05D1/00 G06F13/00 G06F19/00 G06F7/04 G06Q99/00 G07C5/08 G08B13/22 G08C17/00 G08C17/02 G09F3/03 H04B7/185 H04L29/10 H04L9/00 H04M11/00 H04Q1/00 H04Q7/00 H05B1/00 (Advanced/Invention); G06Q99/00 (Advanced/Non-invention); B32B37/00 B60R25/00 B60R25/04 B60R25/08 B60R25/10 B61C17/00 B61G5/00 B67D7/00 B67D7/38 E06B1/56 E06B5/10 F17D1/00 G01S5/02 G05B15/00 G05B23/02 G06F13/00 G06F19/00 G06F7/02 G06Q99/00 G07C5/00 G08C17/00 H04B7/185 H04M11/00 H04Q1/00 (Core/Invention)
International (ipc 1-7): B32B31/00 B60K31/00 B60R25/00 B60R25/04 B60R25/10 B61C17/12 B61G5/10 B67D5/04 B67D5/36 E06B1/56 E06B5/11 F17D1/08 G01S5/02 G05B11/01 G05B15/00 G05B23/02 G06F11/30 G06F12/14 G06F13/00 G06F17/00 G06F17/60



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G06Q30/02 B60R25/042 B60R25/02 B60R25/08 B60R25/102 B60R25/33 B60R2325/205 B60R2325/304 B60T7/18 B60T8/4266
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European: B60R25/02 B60R25/04 B60R25/042 B60R25/08 B60R25/102 B60R25/25B B60R25/25D B60R25/25F B60R25/30B
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L60R325/10B L60R325/20D L60R325/30D L60W550/40A R02D41/04B
US: 156/308.4 156/325 156/499 180/17 180/170 180/170S 219/243 219/535 219/544 701/1 701/1P 701/2 701/209 701/209S
701/29 701/29P 701/31.4 701/31.400P 701/36 701/36S 701/400 701/400S 713/193 713/193P 713/200 726/2 726/2P

Family:

Publication number	Publication date	Application number	Application date
 AT418451 E	20090115	AT19990930355T	19990618
 AU199923221 A1	19990802	AU19990023221	19990115
 AU199946908 A1	20000105	AU19990046908	19990618
 AU199946908 A5	20000105	AU19990046908	19990618
 AU200032439 A5	20000914	AU20000032439D	20000225
 AU200057384 A5	20010102	AU20000057384D	20000615
 AU2001234479 AA	20010731	AU20010234479	20010119
 AU2001259245 AA	20011112	AU20010259245	20010430
 AU200134479 A5	20010731	AU20010034479	20010119
 AU200159245 A5	20011112	AU20010059245D	20010430
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 CA2335155 AA	20001214	CA19992335155	19990618
 CA2335155 C	20090901	CA19992335155	19990618
 CA2397911 AA	20020718	CA20012397911	20010119
 CA2397911 C	20070508	CA20012397911	20010119
 CA2637877 AA	19991223	CA19992637877	19990618
 DE69940161 D1	20090205	DE19996040161	19990618
 EP1053138 A1	20001122	EP19990903125	19990115
 EP1053138 A4	20030716	EP19990903125	19990115
 EP1121245 A1	20010808	EP19990930355	19990618
 EP1121245 A4	20040331	EP19990930355	19990618
 EP1121245 B1	20081224	EP19990930355	19990618
 US2001056544 AA	20011227	US20000738901	20001218
 US2003221118 AA	20031127	US20030401041	20030328
 US2004049324 AA	20040311	US20030654992	20030905
 US2006287783 AA	20061221	US20060439238	20060524
 US2008091309 AA	20080417	US20070841234	20070820
 US6647328 BB	20031111	US20000738901	20001218
 US7259357 BB	20070821	US20030654992	20030905
 WO0051360 A1	20000831	WO2000US04737	20000225
 WO0078057 A1	20001221	WO2000US16381	20000615
 WO0078057 C2	20020711	WO2000US16381	20000615
 WO0154044 A1	20010726	WO2001US01645	20010119
 WO0184274 A2	20011108	WO2001US13809	20010430
 WO0184274 A3	20020221	WO2001US13809	20010430
 WO9936297 A1	19990722	WO1999US00919	19990115
 WO9936297 B1	19991007	WO1999US00919	19990115
 WO9936297 C2	19991111	WO1999US00919	19990115
 WO9965681 A1	19991223	WO1999US13668	19990618
 WO9965681 B1	20000203	WO1999US13668	19990618

Priority:

CA19992335155	19990618	US19980071392P	19980115	US19980089783P	19980618
US19990122108P	19990226	US19990149029P	19990813	US19990357373	19990720
US20000738901	20001218	US19990140029P	19990617	US20000200872P	20000501
US19990149029P	19990617	US19990139759P	19990615	US20000176818P	20000119
US20070841234	20070820	WO1999US00999	19990115	US20060439238	20060524
US20030401041	20030328	WO1999US00919	19990115	WO1999US13668	19990618
WO2000US04737	20000225	WO2001US01645	20010119	WO2001US13809	20010430
US20030654992	20030905	WO2000US16381	20000615		

Probable Assignee: KLINE AND WALKER LLC

Assignee(s): (std): KLINE AND WALKER L L C ; KLINE AND WALKER LLC ; WALKER RICHARD C

Inventor(s): (std): RICHARD C WALKER ; WALKER RICHARD ; WALKER RICHARD C

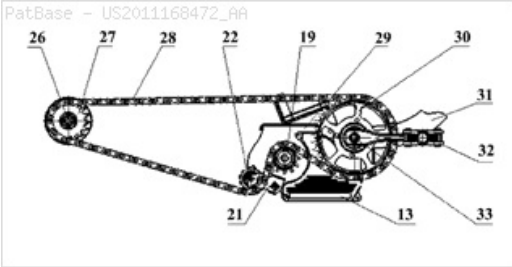
Agent(s): OSLER HOSKIN AND HARCOURT LLP; MOFFAT AND CO; HOFMANN HARALD ET AL; WILMER CUTLER PICKERING HALE AND DORR LLP; WILMERHALE/NEW YORK; WILMERHALE NEW YORK

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 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

Abstract: Source: US2011168472A A middle electric motor drive unit for an electric bicycle, including a motor, a controller, a sensor, a gear reducer, a one-way clutch, a chain tightener, and a housing. The middle electric motor drive unit is disposed below a frame of the electric bicycle, and in the vicinity of a **pedal** shaft thereof. The middle electric motor drive unit is independent from the **pedal** shaft with respect to functions and **structure**. The motor is an internal rotor and permanent magnet DC motor. The motor shaft of the motor is parallel to a gear shaft and the **pedal** shaft. The controller is built-in, and disposed in or on the housing. The sensor is an internal sensor or an external **pedal** shaft sensor.

Classifications:

International (IPC 8-9): B60L11/18 B62K15/00 B62K19/02 B62M23/02 B62M6/20 B62M6/50 B62M6/55 B62M6/70 B62M7/02 B62M7/04 B62M9/00 H02K1/12 H02K29/00 H02K5/10 H02K5/18 H02K7/116 (Advanced/Invention)
CPC: Y02T10/648 B62M6/70 B60L11/1801 B60L11/1805 B60L11/1877 B60L15/2045 B60L2200/12 B62M6/55 Y02T10/644 Y02T10/645 Y02T10/646 Y02T10/7011 Y02T10/705 Y02T10/7283 Y02T10/72
European: B60L11/18A B60L11/18E B60L11/18M36 B60L15/20E B62M6/55 B62M6/70 L60L200/12 Y02T10/64D4 Y02T10/64D6 Y02T10/64D8 Y02T10/70B Y02T10/70B2 Y02T10/70H4 Y02T10/72D6
US: 180/206.4 180/206.400P 310/254.1 310/254.100S



Family:

Publication number	Publication date	Application number	Application date
CN101353076 A	20090128	CN200810151406	20080918
CN101353076 B	20120718	CN200810151406	20080918
EP2338781 A1	20110629	EP20090814061	20090917
EP2338781 A4	20130410	EP20090814061	20090917
JP2012502835 T2	20120202	JP20110527191T	20090917
US2011168472 AA	20110714	US20110051064	20110318
US8205705 BB	20120626	US20110051064	20110318
WO10031341 A1	20100325	WO2009CN073998	20090917

Priority:

CN200810151406 20080918 WO2009CN073998 20090917

Probable Assignee: LI PING

Assignee(s): (std): LI PING ; PING LI ; TU QIAOJIA

Inventor(s): (std): LI PING ; PING LI ; QIAOJIA TU ; TU QIAOJIA

Agent(s): KRAMER - BARSKE - SCHMIDTCHEN; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; MATTHIAS; MATTHIAS SCHOLL PC; DRAGON INTELLECTUAL PROPERTY LAW FIRM

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

3) Family number: 43685598 (CO4440577A)

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Title: MAQUINA REMACHADORA DE ACCIONAMIENTO **ELECTROMAGNETICO** MANUAL O AUTOMATICA **ELECTROMAGNETIC** DRIVE MACHINE **RIVETING** manual or automatic (Machine translation)

Abstract: Source: CO4440577A MAQUINA REMACHADORA DE ACCIONAMIENTO **ELECTROMAGNE**-TICO CARACTERIZADA PORQUE CONSTA DE: A) UN SIS-TEMA REMACHADOR COMPUESTO DE: 1) UN BASTIDOR, 2) UN PORTADATO REMACHADOR INFERIOR EN LA PARTE BAJA DEL BASTIDOR, 3) UN SOLENOIDE REMACHADOR, EN LA PARTE ALTA DEL BASTIDOR, 4) UN PISTON DE REMACHADO, 5) UN PORTADATO REMACHADOR SUPERIOR, B) ALIMENTACION MANUAL; C) UN SISTEMA DE OPERACION Y CONTROL COMPUESTO DE: 1) UN INTERRUPTOR DE **PEDAL**, 2) UN SENSOR DE SEGURIDAD Y 3) UNA FUENTE ELECTRONICA; Y D) UN SOPORTE. SU SISTEMA DE REMACHADO UTILIZA COMO ENERGIA PARA SU OPERACION EL CAMPO MAGNETICO GENERADO POR UN SOLENOIDE. PUEDE SER MANUAL O AUTOMATICA. CUANDO ES AUTOMATICA, SUS SISTEMAS DE ALIMENTACION, TRANSPORTE Y REMACHADO UTILIZAN COMO ENERGIA PARA SU OPERACION CAMPOS MAGNETICOS GENERADOS POR SOLENOIDES. **RIVETING** MACHINE FOR DRIVE **electromagnetic** TICO CHARACTERIZED INCLUDES: A) A SYSTEM **RIVETER** consisting of: 1) a frame, 2) A PORTADATO **RIVETER** LOWER IN THE BOTTOM OF FRAME, 3) a solenoid **riveter**, IN THE UPPER PART OF FRAME, 4) a piston **riveting** 5) PORTADATO **RIVETER** SUPERIOR, B) MANUAL FEED; C) a system of operation and control compound: 1) a foot switch, 2) a safety sensor and 3) an electronic source; And d) a support. YOUR **RIVETING** SYSTEM FOR USE AS POWER operation MAGNETIC FIELD GENERATED BY A SOL. It can be manual or automatic. WHEN it is automatic feeding THEIR SYSTEMS, TRANSPORTATION AND **RIVETING** used as energy for OPERACION MAGNETIC FIELDS GENERATED BY solenoids.

Classifications:

International (IPC 8-9): B21J15/00 B21J15/24 (Advanced/Invention); B21J15/00 (Core/Invention)
International (IPC 1-7): B21J15/00 B21J15/24

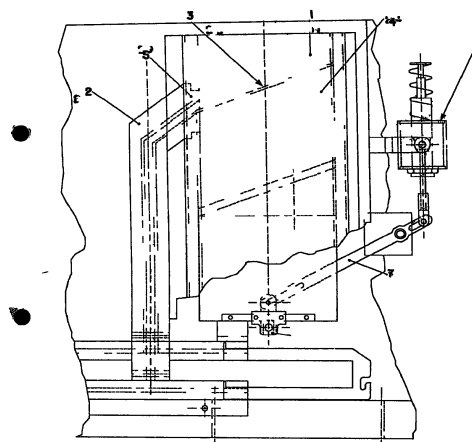


FIGURA 15

Family:

Publication number	Publication date	Application number	Application date
CO4440577 A1	19970507	CO19950027553	19950622

Priority:

CO19950027553 19950622

Probable Assignee: DUNCAN S A**Assignee(s):** (std): DUNCAN S A**Assignee(s):** DUNCAN SA**Inventor(s):** (std): ARREGOCES ALONSO ; DUNCAN ARTURO ; DUNCAN RAFAEL ; GONZALEZ GILBERTO**Inventor(s):** RAFAEL DUNCAN ; ALONSO ARREGOCES ; GILBERTO GONZALEZ ; ARTURO DUNCAN**Agent(s):** GLORIA NIETO DE CANO**4) Family number: 33497945 (GB2305474A)**

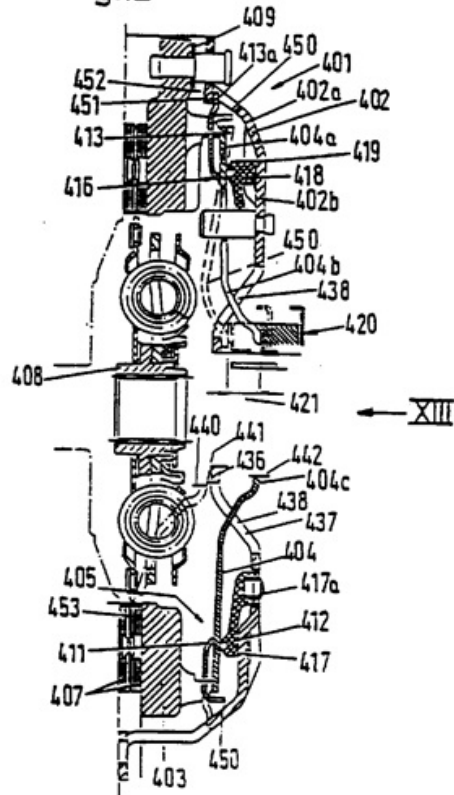
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Title: A friction clutch

Abstract: Source: GB2305474A A friction clutch with a pressure plate 403 which is connected to a housing 402 so that it cannot rotate relative to the housing but can move axially relative to the housing by a limited amount. A contact pressure plate spring 404 biases the pressure plate 3 in the direction of a clutch disc 408 which can be clamped between this pressure plate and a counter pressure plate (not shown). An adjustment device 416 is provided which automatically compensates for wear of the friction linings of the clutch disc and causes a practically constant force biasing the pressure plate 403 through the contact pressure plate spring. The adjustment device causes axial movement of a swivel support pad 412 on the housing side of the spring 404. The contact pressure plate spring 402 is supported by a supporting force whose size can change in dependence on the speed and which is directed towards the swivel pad 412 on the housing side. A plate spring 413 may provide the supporting force, the force increasing with speed due to the effort of centrifugal force acting on axially extending tongues 450 of the spring 413.

Classifications:**International (IPC 8-9):** F16D13/75 (Advanced/Invention)**International (IPC 1-7):** F16D13/75**CPC:** F16D13/755 F16D13/757 F16D2013/581**European:** F16D13/75C F16D13/75D R16D13/58A

Fig.12

**Family:**

Publication number	Publication date	Application number	Application date
GB2305474 A1	19970409	GB19960026436	19930707
GB2305474 B2	19970521	GB19960026436	19930707
GB2305475 A1	19970409	GB19960026437	19930707
GB2305475 B2	19970521	GB19960026437	19930707
GB9626436 A0	19970205	GB19960026436	19930707
GB9626437 A0	19970205	GB19960026437	19930707

Priority:

DE19924222842 19920711 DE19924231131 19920917 DE19934317587 19930526
 GB19960016447 19930707

Probable Assignee: LUK LAMELLEN AND KUPPLUNGSBAU

Assignee(s): (std): LUK LAMELLEN AND KUPPLUNGSBAU

Assignee(s): LUK LAMELLEN AND KUPPLUNGSBAU GMBH

Inventor(s): (std): KIMMIG KARL LUDWIG ; MAUCHER PAUL ; MEINHARD ROLF ; REIK WOLFGANG ; WITTMANN CHRISTOPH

Inventor(s): WOLFGANG REIK ; ROLF MEINHARD ; PAUL MAUCHER ; CHRISTOPH WITTMANN ; KARL LUDWIG KIMMIG

5) Family number: 41509969 (US2009071791A)

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Title: AUTOMOBILE ANTICOLLISION DECELERATING AND EMERGENCY BRAKE APPARATUS

Abstract: Source: US2009071791A An anticollision decelerating and emergency brake apparatus of automobile is disclosed. The objects of the invention is realized by the following: an anticollision decelerating and an emergency brake apparatus of automobile constituted by clutch (1), a energy-storage assembly (2), a brake force transmission assembly (3), a combined solenoid valve assembly (4), a housing (5), a variable diameter assembly (6), a reset mechanism (7), and so on. The apparatus of the invention will auto brake to effective prevent and avoid traffic accident, and the damage degree can be minimized.

Classifications:

International (IPC 8-9): B60K26/00 B60K26/02 B60R21/02 B60T13/04 B60T7/12 B60W10/02 B60W10/04 B60W10/18

F16D67/02 (Advanced/Invention);

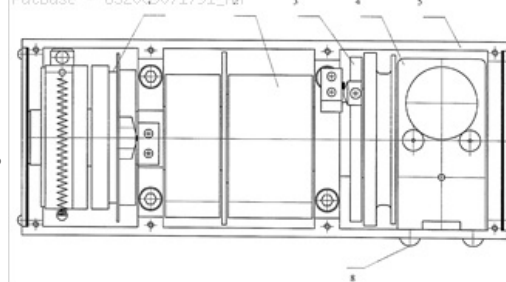
B60W10/18 B60W30/08 B60W30/18 (Advanced/Non-invention)

CPC: Y10T477/80 Y10T477/839 B60T7/22 B60W10/18 B60W10/24 B60W30/09 B60W30/18172

European: B60T7/22 L60W10/18 L60W10/24 L60W30/09 L60W30/18S

US: 192/12.00D 192/12.0BA 192/12BA 192/12D 192/13.00A 192/13.00RP 192/13A 192/13R 477/182 477/193 701/70 701/70S

PatBase - US2009071791_A1



Family:

Publication number	Publication date	Application number	Application date
CN101108614 A	20080123	CN200710153898	20070917
CN101108614 B	20100623	CN200710153898	20070917
US2009071791 AA	20090319	US20070956169	20071213
US7955218 BB	20110607	US20070956169	20071213
WO09036615 A1	20090326	WO2007C03182	20071109

Priority:

CN200710153898 20070917

Probable Assignee: ANHUI CHIRUIDA PHOTOELECTRICS TECHNOLOGY DEV CO LTD

Assignee(s): (std): ANHUI CHIRUIDA PHOTOELECTRICS TECHNOLOGY DEV CO LTD ; DAHUAI WANG ; WANG DAHUAI ; ZHAO YUE

Assignee(s): ANHUI CHIRUIDA PHOTOELECTRICS TECHNOLOGY DEVELOPMENT CO ; ANHUI CHIRUIDA PHOTOELECTRICS TECHNOLOGY DEVELOPMENT CO LTD

Inventor(s): (std): BAODING XU ; DAHUAI WANG ; GUOHUA GU ; JUNQI BAI ; QIAN CHEN ; WANG DAHUAI ; XIANYA WANG ; ZHAO YUE

Inventor(s): BAI JUNQI ; XU BAODING ; WANG XIANYA ; GU GUOHUA ; CHEN QIAN

Agent(s): KNOBLE YOSHIDA AND DUNLEAVY; KNOBLE YOSHIDA AND DUNLEAVY LLC; BEIJING ZHONGYUAN HUAHE INTELLECTUAL PROPERTY AGENCY CO LTD

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 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

6) Family number: 15112 (BRPI9600168A)

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Title: Maquina eletrica para fixacao de componentes metalicos Electric machine for fixation of metallic components (Machine translation)

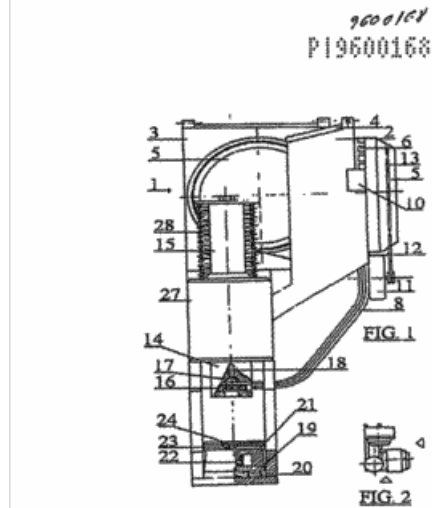
Abstract: Source: BRPI9600168A [Source: Claim 1] 1)"MAQUINA ELETRICA PARA FIXACAO DE COMPONENTES METALICOS11, uma maquina lotal mente automatica para fixacao de componentes metalicos de padroes universais, do tipo botoes metalicos fixos, flexiveis, rebites. Icchos, eta, cm pecas do vestuario, caractcriado por conter, a maquina (1), de estrutura dc chapa de aco montada cm uma mesa de "design" apropriado com um **pedal** para acionamento, dois depositos (2 e 3) para componentes metalicos, sendo um deles (2) para o componente principal c o outro (3) para o seu fixador, contendo os ditos depositos (2 c 3), tampa superior retangular articulada (4) c copo lateral giratorio (5) com orificios (6) na borda, para saida de componentes e fixadores; referidos orificios (6), vedados na maioria do perimetro da borda dos copos (5) por uma extensao dos depositos, contendo, em cada um deles, cm segmentos nao vedados que coincident com as desembocaduras de trilhos verticais (8 e 9), um sensor de vazao de unidades (7) e um sensor de seguranca (10); contendo ainda os ditos copos (5), dois pequenos motores eletricos com rodutores (11), para movimentacao de cada um deles atraves de polias c comeias (12), girando cm sulcos (13) contidos na **base** dos mesmos; contendo ainda, fixo na estrutura (2) um martelo eletromagnetico (15) com bobina eletrica (27), mola (28) c uma matriz cubica (14) de aco, lixa na **base** inferior do mesmo, com um anel interno dc esferas (16) e um cabecote axial (17) com mola (18), para conformacao dos componentes provenientes do trilho de menor comprimento (8), que contem um sensor dc passagem de unidades (25) e um dispositivo liberador de unidades (26); sendo o trilho de maior comprimento (9), tambem com sensor de passagem de unidades (25) c dispositivo liberador de unidades (26), desembocado junto a uma matriz retangular de brona; (19), disposta no plano inferior a anteriormente cilada c apoiada, \$52 | \$ \$ ss »\$ j\$ •(R) # • • • • • atraves dc uma mola (20), sobre a cstriitura; 'diia matriz'(19), ' que contem um bloco interno de aluminio macico (21) com um luro aviai para passagem de uma haste com cabeca (22), que e apoiada cm uma mola sobre a estrutura; matriz (19) esta, que contem ainda, uma rampa superior (23), fixa sobre o bloco (21), que alinha o fixador em um orificio central (24), nela contido, atraves de sulco proprio. [Source: Claim 1] 1) "ELECTRICAL MACHINE for FIXATION of METALICOS11 COMPONENTS, a mac automatically to mind lotal uina | fixation of metallic components of universal standards of type fixed, flexible metallic buttons, **rivets**. Icchos, eta, cm pieces of clothes, caractcriado to contain, the machine (1), dc 304 stainless steel sheets **structure** mounted cm a design suitable with a **pedal** to start, two tanks (2 and 3) for metallic components, one of which (2) to the main component (c) (3) for your fixer, containing these deposits (2 c 3), rectangular hinged top cover (4) (c) lateral giratorio Cup (5) with holes (6) on the edge, to exit of components and fasteners; referred to holes (6), sealed most of the perimeter of the rim of the cups (5) for an extension of the deposits, containing in each of them, not sealed segments that coincident cm with the mouths of vertical rails (8 and 9), a flow sensor units (7) and a safety sensor (10); containing still the sayings (5) cups, two small electric motors with rodutores (11), for each drive by pulleys c comeias (12), spinning cm furrows (13) contained on the basis thereof; containing still, fixed to the **structure** (2) **electromagnetic** hammer (15) with electric coil (27), (28) (c) a cubic array (14) of aco, sandpaper on the lower **base** of the same, with an inner ring dc beads (16) and a cabecote (17) with spring (18), for conformation of the components from the smaller rail length (8), containing a dc passing sensor units (25) and a releasing device units (26); being the largest rail length (9), also with new sensor units (25) c-releasing device units (26), ended with a rectangular array of brona; (19), prepared the plan less than previously setup c supported, \$ 52 | \$ \$ ss ' \$ j \$ • i (R) • • • • • through dc a spring (20), on the cstriitura; ' DIIA array ' (19), ' which contains a built-in ceramic, aluminum block (21) with a aviai for a ticket luro stem with head (22), which supported a spring on the cm **structure**; (19) this array, containing a higher ramp (23), fixed on the block (21), which aligns the Fixer in a central hole (24), it contained, by own Groove.

Classifications:

International (IPC 8-9): A41H37/10 (Advanced/Invention);

A41H37/00 (Core/Invention)

International (IPC 1-7): A41H37/10

**Family:**

Publication number	Publication date	Application number	Application date
BRPI9600168 A	19960723	BR1996PI00168	19960115

Priority:

BR1996PI00168 19960115

Probable Assignee:

ROSSATTO JAIR

Assignee(s): (std):

ROSSATTO JAIR

Inventor(s): (std):

ROSSATTO JAIR

Inventor(s):

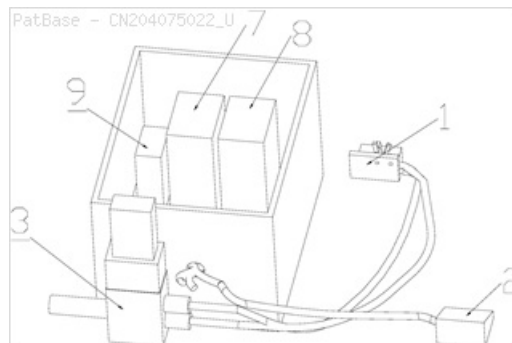
JAIR ROSSATTO

7) Family number: 58204068 (CN204075022U)

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Title: RIVET POINT CLAMPING DEVICE

Abstract: Source: CN204075022U The utility model discloses a rivet point clamping device which comprises a pneumatic clamp, a pedal switch and an electromagnetic valve. The pneumatic clamp is fixed to a machine table and comprises an installation base, a cylinder and a pair of clamp forceps, wherein the cylinder is installed on the installation base, and one end of the clamp forceps is installed on a cylinder moving slide block. The pedal switch is connected with the electromagnetic valve which is connected with the pneumatic clamp. The rivet point clamping device is simple in structure; after the pedal switch is stepped on, the air inlet time and the air discharge time of the cylinder are controlled through the electromagnetic valve, the cylinder is driven to move and drives the clamp forceps to clamp a wire harness, and therefore the effect of fixing the wire harness is achieved, and the wire harness is accurately riveted.

Classifications:**International (IPC 8-9):** B21F15/00 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN204075022 U	20150107	CN201420484578U	20140826

Priority:

CN201420484578U 20140826

Probable Assignee: TONGCHENG SINBON ELECTRONICS CO LTD

Assignee(s): (std): TONGCHENG SINBON ELECTRONICS CO LTD
Assignee(s): TONGCHENG LETTER STATES ELECTRONICS CO LTD ; TONGCHENG SINBON ELECTRONICS CO
Inventor(s): (std): ZHAO ZHANBING

8) Family number: 34631633 (ES1028066Y)

© PatBase

Title: MAQUINA UTOMATICA OERFECCIONADA PARA COLOCAR ANILLAS.

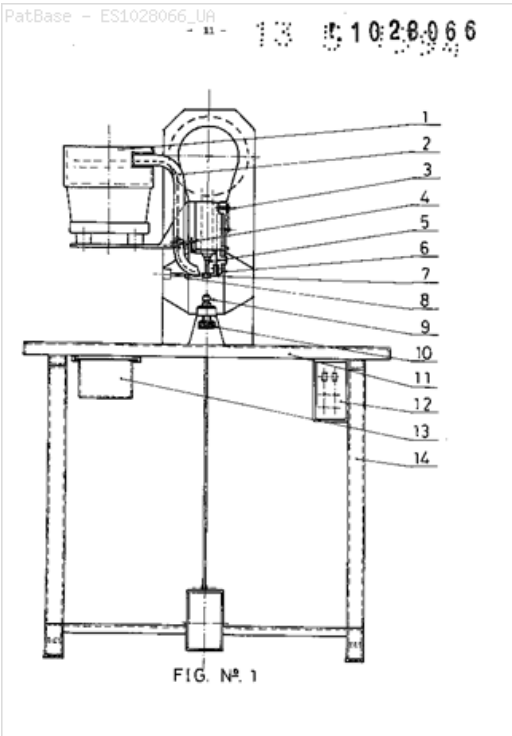
Abstract: Source: ES1028066U 1. Maquina automatica perfeccionada para colocar anillas, de las constituidas a partir de una estructura metalica (14), formando patas y alojando un cajon de accesorios (13) y un armario de control (12), disponiendo sobre la supercie de la estructura un tablero (11), disponiendo de un **pedal** (33), caracterizada por estar constituida a partir de un alimentador **electromagnetico** (1) que dirige o gua las anillas a una gu a (2), disponiendo de un muelle de retroceso (3) en el meca- nismo porta-ut nas (7), y contando con un disposi- tivo (4) que libera y deja caer las anillas de una en una hasta un punzon (5), disponiendo de un soplador (8) para el posicionado de las anillas y una boquilla yunque (9) para remachar las mis- mas regulandose el remachado mediante un regu- lador (10) que actua sobre la presion del yunque. 1. Automatic machine perfect to place rings, the formed from a metal **structure** (14), forming legs and alo leaving a drawer accessories (13) and a control cabinet (12), forming on the supercie of **structures** a panel (11), having a **pedal** (33), characterized by being formed from an **electromagnetic** feeder (1) directing or guide rings to a gu a (2), by arranging a return spring (March) in the carrier mechanism nails (7), and with a device (4) that releases and drops the rings one by one until a punch (5), having a blower (8) for positioning the rings and anvil (9) nozzle for the same more **riveting riveting** regulated by a regulator (10) the pressure acting on the anvil.

Classifications:

International (IPC 8-9): A43D100/00 (Advanced/Invention);

A43D100/00 (Core/Invention)

International (IPC 1-7): A43D100/00



Family:

Publication number	Publication date	Application number	Application date
ES1028066 UA	19941201	ES19940001327U	19940513
ES1028066 Y1	19950516	ES19940001327U	19940513
ES1028066 YA	19950516	ES19940001327U	19940513

Priority:

ES19940001327U 19940513

Probable Assignee:

JOPEVI S L

Assignee(s): (std):

JOPEVI S L

Assignee(s):

JOPEVI SL

Inventor(s): (std):

JAEN MENDIELA JOSE

9) Family number: 19110017 (GB376468A)

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Title: Improvements in variable speed gearing particularly for use with hydraulic couplings

Abstract: Source: GB376468A 376,468. Change-speed gearing. SINCLAIR, H., 6, The Crest, Surbiton Hill, Surrey. June 15, 1931, No. 17389. [Class 80 (ii).] Change-speed gearing comprises auxiliary clutching means 50, Fig. 1, arranged in parallel and adapted to slip while transmitting substantial torque, the clutch members being connected invariably to the driving and driven shafts 3, 20 of the change gearing. The invention is specially applicable for driving locomotives and the auxiliary clutch 50 acts as a clutch stop, or maintains the torque in changing to a higher speed. The engine clutch may be a friction clutch automatically controlled by centrifugal force, but is preferably a friction coupling 1 which need not have valve or like control. One auxiliary clutch member or

disc 62 is fast on the shaft 20 and the other 60 is fast with the loose gear 24 of the fourth or highest-speed pair 14, 24. With the vehicle stopped and the engine running, the drag in the coupling 1 causes the rotation of loose gears 21.. 24 on the driven shaft 20, and also of the body part 60 of the clutch 50, the disc 62 being at rest. To start the vehicle, the driver lifts a finger-ring 107, Fig. 2, which makes trigger connection at 112 so that by depressing a **pedal** 101 he engages the clutch 50. This acts as a clutch stop bringing the whole gearing to rest and allowing a double clutch 29 to be slid to the left of Fig. 1 to engage the low-speed train 11, 21, whereupon the clutch 50 is opened. The selector mechanism may be of any suitable kind. In the form described, preselection is effected by a lever 70, Fig. 2, moving in a gate 78, Fig. 6. When the lever 70 is turned about a pivot 76, Fig. 3, the lever heel 73, Fig. 4, moves to select one of two primary selector bars 75a, 75b, the other being locked by a member 77. The primary selectors 75a, 75b are connected to secondary selectors 90a, 90b by spring boxes 81a, 81b with an interlock ball 95. In each box is a spring 89, Fig. 3, which abuts at each end on both the primary selector and on the spring box so as to allow relative motion under spring stress in both directions. Bolts 92a, 92b normally connect the two spring boxes to the two primary selectors. To change up from first to second speed, the lever 70 is moved from slot G1, Fig. 6, to slot G2 thereby moving the primary selector 75a, Fig. 3, from left to right. Stress on the clutch teeth 31, Fig. 1, prevents the selector 90a and the box 81a from following. The bolt 92a, Fig. 3, is cammed upwards striking a pivoted plate 99 which carries upwards with it the finger-ring 107. This brings the trigger 112, Fig. 2, carried by the **pedal** lever 101 into engagement with a lever 109 connected to the striker 114 of the auxiliary clutch 50. Depression of the **pedal** 101 now engages the clutch 50 with slip. The dog clutch 29 being unloaded is shot to the right by the spring box 81a, and, on synchronism, its teeth 32, Fig. 1, engage teeth 34 on the loose rotating gear 22; at the same time the bolt 92a drops back allowing the finger-ring 107 to fall and disconnect the trigger 112 so automatically releasing the clutch 50 which has prevented the drive from being interrupted. For the next step up, the lever 70 is moved to slot G3, Fig. 6, whereby the spring box 81a, Fig. 4, is returned to neutral and the box 81b shot to the left. The bolt 92b rises and sets the trigger so that depression of the **pedal** engages the clutch 50 and so on. Movement into highest speed is different because the dog clutch 36, Fig. 1, must engage teeth 41 on the gear 24 which is already being driven by the slip clutch 50. For this reason, the clutch 50 may be arranged to act with a gear pair for the sole purpose, say 5 per cent above the highest drive speed ratio. Whereas the dog clutches for the second and third speeds may be provided with balking- rings 35 stepped for engagement in both directions, the clutch 36 has a balking-ring 43 stepped for engagement for one direction of relative rotation only. Synchronism for the other direction is effected by the use of bevelled ends to the clutch teeth. To make a change down, the selector lever 70 is set for the new speed and the engine throttle closed and reopened. The loaded clutch teeth of the last speed are released and the fresh engagement is effected on synchronism, by the spring box which has been stressed, the time required being no longer than is required for the engine to accelerate to the speed corresponding to the lower gear. The auxiliary slip clutch 50 may be situated in any part of the transmission. The arrangement at the end of the driven shaft 20 shown in Fig. 1 is suitable as it allows the clutch to be of large enough diameter to prevent deceleration of normal load while changing up. This auxiliary clutch 50 may be of an hydraulic vane type instead of being mechanical. Specifications 285,970, [Class 79 (ii), Motor vehicles, Driving and c.], 292,549, 297,793, 309,134, [all in Class 80 (ii), Gearing, Variable-speed and c.], and 365,998, are referred to.

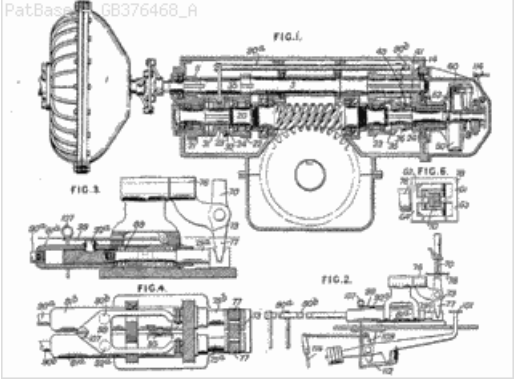
Classifications:

International (IPC 8-9): F16D67/00 F16H3/089 (Advanced/Invention);
F16D67/00 F16H3/08 (Core/Invention)

International (IPC 1-7): B61C9/20 F16H3/12

CPC: F16D67/00 F16H3/089

European: F16D67/00 F16H3/089



Family:

Publication number	Publication date	Application number	Application date
GB376468 A	19320714	GB19310017389	19310615

Priority:

GB19310017389 19310615

Probable Assignee:

HAROLD SINCLAIR

Assignee(s): (std):

HAROLD SINCLAIR

10) Family number: 43868343 (CN201315916Y)

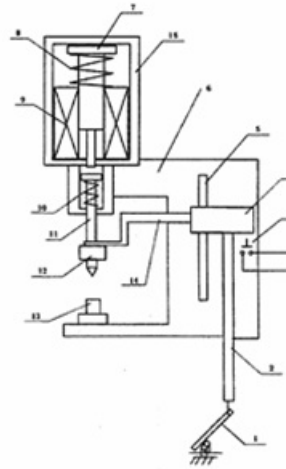
© PatBase

Title: **Electromagnetic**-type safety button **riveting** machine

Abstract: Source: CN201315916Y The utility model discloses an **electromagnetic**-type safety button **riveting** machine which is composed of a machine body, a punch, an upper mould, a lower mould, a sliding block, a shifting fork, a guiding shaft, a control rod, a travel switch and a **pedal**, wherein the upper mould is located at the top end of the lower part of the punch; the lower mould is located on the machine body correspondingly to the upper mould; the sliding block, the shifting fork, the guiding shaft, the control rod and the travel switch are arranged in the machine body; and the **pedal** is arranged at the lower part of the machine body. The button **riveting** machine is characterized in that a magnet coil is arranged at the upper end of the punch; the core of the coil is provided with an armature sheathed with a spring; the magnet coil is connected with the travel switch by a lead wire. The utility model is suitable for button **riveting** at each part of various clothes, suitcases and shoes due to the advantages of simple and reasonable **structure**, easy manufacture and low cost as well as safety operation, high efficiency and low work noise.

Classifications:

International (IPC 8-9): A41H37/00 A43D100/08
A44B1/06 (Advanced/Invention);
A44B1/00 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
 CN201315916 Y	20090930	CN200820167653U	20081107

Priority:

CN200820167653U 20081107

Probable Assignee:

HUALIN SONG

Assignee(s): (std):

HUALIN SONG

Assignee(s):

SONG HUALIN

Inventor(s): (std):

HUALIN SONG ; XINGLONG LIN

Inventor(s):

LIN XINGLONG ; SONG HUALIN

11) Family number: 92495 (US3590969A)

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Title: FIXED POINT STOP MECHANISM FOR DRIVEN ROTARY MACHINE

Abstract: Source: GB1247264A 1,247,264. Stopping sewing machines. MITSUBISHI DENKI, K.K. 3 June, 1969 [3 June, 1968], No. 28135/69. Heading D1G. [Also in Divisions F2 and G1] A rotary machine (e.g. a sewing machine 10, a **riveting** machine or fret-saw powered by rotational energy) is connected to a drive (e.g. the shaft of an electric motor 310) having a flywheel 321 by a disk 332 rotatable with the machine and movable between contact with a stationary brake part 341 and contact with the flywheel to transmit rotation from the drive to the machine, a speed sensor (e.g. tachogenerator 29) on the machine providing signals to an automatic control Fig. 3, for an electro magnet 354 to partially engage the disk and the flywheel so as to drive the machine at a reduced speed, until a predetermined position, e.g. needle up or down sensed by an insulated gap 23 on a ring 22 mounted on a machine shaft 16) when the **electromagnet** 354 is switched off and disc 332 is braked against part 341. In the embodiment shown for normal (full speed) operation, the disk 332 is held against the flywheel 321, by depressing a **pedal** 40 pivoting a bell crank 370 about a pivot 371 to move pins 373 engaging slots in a sleeve 326 carrying the disk. Spring 363 and 377 bias the mechanism to a braked position. The electrical control circuit, Fig. 3, includes the coil of the **electromagnet** 354 which is energised by rectified a.c. power from a supply 506 when a bi-directional thyristor 509 is energised via a bi-directional diode 513. When the **pedal** 40 is released a microswitch 380, shown also on Fig. 2, is closed connecting the diode 513 via the ring 22 across the supply 506 (needle up or needle down being selected by a switch 518). The signal from the tachogenerator 29, rectified at 520 is used to control the transistor 525, which, provided the shaft 16, Fig. 1, is rotating above the reduced speed is conductive to the power supply, rectified at 526, thereby preventing a capacitor 514 from charging. Below the reduced speed the diode 513 triggers the thyristor 509 to allow the **electromagnet** to partially engage the disk 332 and the flywheel 321 until the desired position is reached and the segment 23 breaks the circuit 514, 516, 380, 22, 518, 506. The power switch 504 is controlled by push-buttons 502, 503, Fig. 1, on a control panel 501.

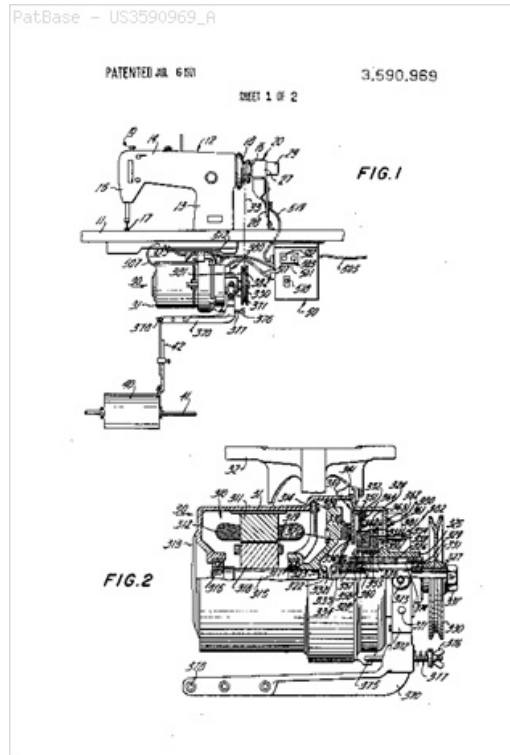
Classifications:**International (IPC 8-9):** D05B69/22 (Advanced/Invention);

D05B69/22 (Core/Invention)

International (IPC 1-7): D05B69/22 D05B69/26 D05C17/02 F16D59/02

F16D71/04 H02K7/112 H02P15/00

CPC: D05B69/22**European:** D05B69/22**US:** 112/275 192/146 192/16 192/18B

**Family:**

Publication number	Publication date	Application number	Application date
BE733928 A	19691117		19690602
DE1928138 A1	19691211	DE19691928138	19690603
GB1247264 A	19710922	GB19690028135	19690603
US3590969 A	19710706	US19690828844	19690529

Priority:

JP19680037935 19680603

Probable Assignee: MITSUBISHI ELECTRIC CORP**Assignee(s):** (std): MITSUBISHI ELECTRIC CORP**Assignee(s):** MITSUBISHI DENKI KABUSHIKI KAISHA ; MITSUBISHI DENKI KK**Inventor(s):** (std): KAJINO YUKIO ; KAJITANI SADAYUKI ; YOKOYAMA MASAHIRO**Inventor(s):** YUKIO KAJINO ; MASAHIRO YOKOYAMA ; SADAYUKI KAJITANI**12) Family number: 1585467 (CN2614098Y)**

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Title: **Electromotion** punch-**rivet** machine for brake block used in vehicle

Abstract: Source: CN2614098Y The utility model relates to an electrodynamic vehicle-mounted brake shoe **riveting** machine for the maintenance of frequently-used components of motor vehicles, the utility model comprises an electric motor, a transmission mechanism 2, a working mechanism 3, a **riveting** head 4, a chassis 5, a **pedal** controlling switch 6, a control circuit 7, a box 8, an overtravel-limit switch 9 and a power switch 10. The **riveting** machine is simple in **structure**, small in volume, low in manufacturing cost and convenient for manipulation and maintenance, through the utilization of the **riveting** machine, the **rivet**-joint quality and working efficiency of shoe brakes is greatly improved, worker labor intensity is lightened, and the utility model is propitious for safe production and environmental protection, and is also suitable for extension and application.

Classifications:**International (IPC 8-9):** B21J15/14 (Advanced/Invention);

B21J15/00 (Core/Invention)

International (IPC 1-7): B21J15/14**Family:**

Publication number	Publication date	Application number	Application date
CN2614098 Y	20040505	CN20032012394U	20030402

Priority:

CN20032012394U 20030402

Probable Assignee: HUANXI MOUNTAIN ENGINEERING DE**Assignee(s):** (std): HUANXI MOUNTAIN ENGINEERING DE**Assignee(s):** HUANXI MOUNTAIN ENGINEERING DEPARTMENT LIAOHE PETROLEUM EXPLORATION BUREAU**Inventor(s):** (std): XIANG ZHIGUO**Inventor(s):** ZHIGUO XIANG

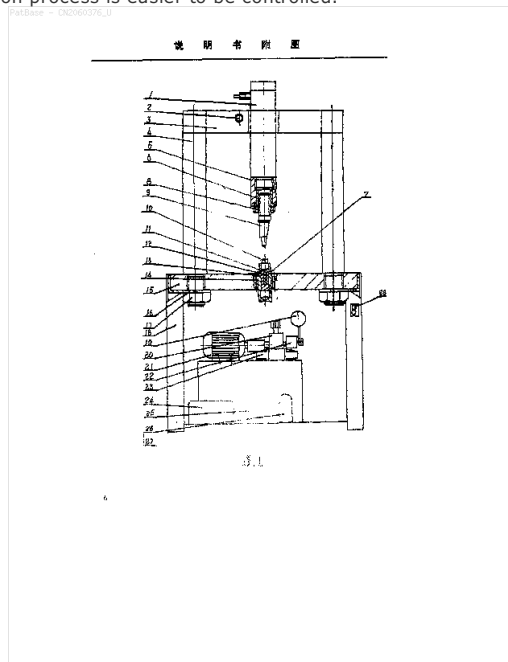
Title: HYDRAULIC PUNCH **RIVETING** MACHINE FOR BRAKE-SHOE

Abstract: Source: CN2060376U The utility model belongs to a metal hydraulic machine. At present, a home produced hydraulic punch **riveting** machine for a brake shoe has complicated **structure**, large noise, non-soft punch **riveting** force degree, and usually adopts gas to operate. The utility model adopts hydraulic transmission. The metal hydraulic machine has simple **structure** and small noise. The metal hydraulic machine can ensure punch **riveting** quality. The metal hydraulic machine is characterized in that a vertical post is arranged on a work platform to support an oil cylinder by a fixing plate. One punch **riveting** head is connected to the oil cylinder, and the other punch **riveting** head is fixed on the surface of the work platform. An oil pump is driven to operate by a motor under the work platform, and oil liquid is from an **electromagnetic** valve to the oil cylinder. A travel switch is controlled by a **pedal**, and thereby, an operation process is easier to be controlled.

Classifications:

International (IPC 8-9): B21J15/14 (Advanced/Invention);
B21J15/00 (Core/Invention)

International (IPC 1-7): B21J15/14



Family:

Publication number	Publication date	Application number	Application date
CN2060376 U	19900815	CN19882019904U	19880824

Priority:

CN19882019904U 19880824

Probable Assignee: YU RUILAN

Assignee(s): (std): YU RUILAN

Inventor(s): (std): CHOU SHENDE ; RUILAN YU ; SHENDE CHOU ; YU RUILAN

Title: ELEKTROMAGNETISCHES SCHLAGGERAET **ELECTROMAGNETIC** SCHLAGGERAET (Machine translation)

Abstract: Source: CH315674A (Claim 1) 1. Schlaggeraet nach Patentanspruch, ge kennzeichnet durch Speichermittel mit ver aenderbarer Entladezeitkonstante, die waehrend des Zeitintervalles zwischen zwei Arbeitsgaen gen aufgeladen werden und beim Herbeifueh ren der Entladung den Erregerstromkreis der Magnetwicklung fuer eine von der Entladezeit- konstante der Speichermittel abhaengige Zeit dauer schliessen.

Machine translation: (claim 1) 1 Schlaggeraet according to Patent Claim, GE denotes by memory means with various modifiable discharge time, which are during the time interval between two working processes gene charged and when Herbeifueh Ren discharge the excitation circuit of the magnet winding close for a of the discharge time constant of the storage means depending time duration.

Classifications:

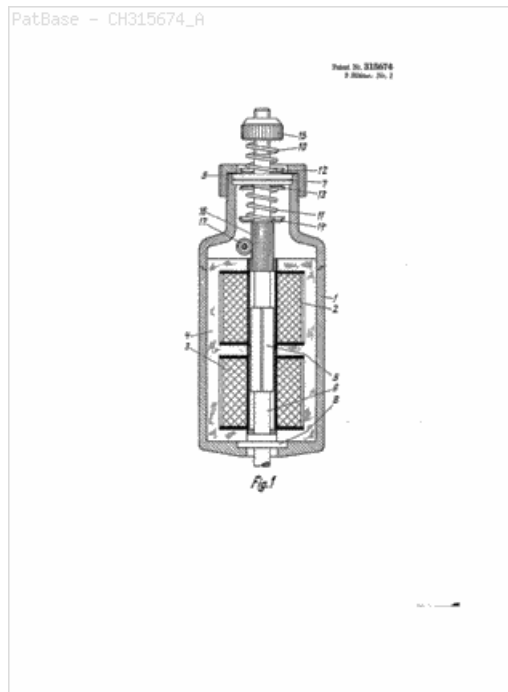
International (IPC 8-9): B25D11/06 B25D13/00

H02K33/12 (Advanced/Invention);
B25D11/00 B25D13/00 H02K33/00 (Core/Invention)

International (IPC 1-7): B21J7/30 B25D13/00 H02K33/12

CPC: B25D11/064 H02K33/12

European: B25D11/06E H02K33/12

**Family:**

Publication number	Publication date	Application number	Application date
CH315674 A	19560831		19530727

Priority:

19530727

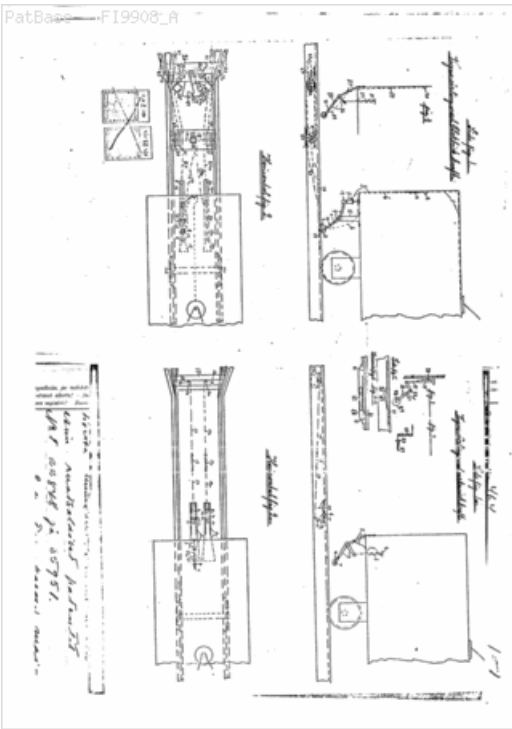
Probable Assignee: AUTELCA AG**Assignee(s):** (std): AUTELCA AG**Inventor(s):** (std): HANS WENGER ; WOLFGANG MUEH**Inventor(s):** MUEH WOLFGANG ; WENGER HANS**15) Family number: 39298890 (FI9908A)**

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Title: Vagnsvaexlingsanordning

Abstract: Source: FI9908A 1) Vanavaexlingaanordning, hvilken genom foermedling af saer- skilda mekaniska eller elektriska apparater från vagnen moejliggoer omkastning af spårvaexlar, kaemetecknad daeraf att kontaktarmen, som Dringar de under gatans nivå fceflndtilga egentliga vaerlingsmekanis- merna i funktion aer foersedd med fjuderhanmare och borstar. 1) Vanavaexlingaanordning, hvilken By means of the exchange function f discomfort, accompanied by the mechanical skilda eller Elektriska apparater from the vagnen moejliggoer omkastning af sparvaexlar, kaemetecknad daeraf att kontaktarmen, som de Dringar under gatans logic level fceflndtilga egentligen vaerlingsmekanis-Merna in a function is provided with a fjuderhanmare Science Borstar.

Classifications:**International (IPC 8-9):** B61L1/00 (Advanced/Invention); B61L1/00 (Core/Invention)**International (IPC 1-7):** B61L1/00



Family:

Publication number	Publication date	Application number	Application date
FI9908 A	19231019		00000000

Inventor(s): (std): ALFRED LINDSTROEM VIKTOR
Inventor(s): LINDSTROEM VIKTOR ALFRED

16) Family number: 42734916 (CN201158153Y) © PatBase

Title: Impulse electric miniature blanking press

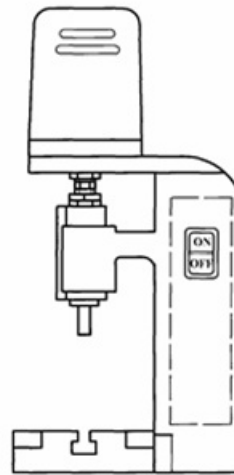
Abstract: Source: CN201158153Y A miniature pulse electric punch is characterized in that an **electromagnetic** driver including a cup-shaped yoke and a column-shaped armature as the main parts is used as a drive device to replace a motor and a clutch, a flywheel and a crankshaft connecting rod mechanism; an electric controller including a digital circuit and a thyristor as the main parts provides high-amplitude low-frequency pulse power for the **electromagnetic** driver; a foot switch is used for controlling the on/off of the punch through the electric controller in a low-voltage DC weak current manner; and a slider, a work **bench** and an upright post of a common desktop punch are adopted. The punch has the advantages of simple **structure**, low cost, and extremely low power consumption, and can be used for punching small hardware parts and electronic product elements, pressing **rivet** and pressing labels and buttons on clothes, shoes and caps.

Classifications:

International (IPC 8-9): B30B1/42 B30B15/14 (Advanced/Invention)

CPC: B30B1/42

European: B30B1/42

**Family:**

Publication number	Publication date	Application number	Application date
CN201158153 Y	20081203	CN200820043354U	20080128

Priority:

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