

Search history

Search [SP]: Element for changing heel caps characterized by a stud shaped rod of striated metal, a heel body 1 1 with concentric cavity receiving the stud-shaped rod of striated metal (1) and a conical cap (6) with threaded concentric cavity (9); where the striated metal rod (1) has at one end a smooth hollow surface (3) with a groove (4) that runs it longitudinally, the ends of the stud-shaped rod of striated metal (1) are separated by a washer immersed in the seal shaft (5) of the receiving hole (13) of the stud-shaped rod of striated metal (1) made in the heel (1 1); at the opposite end it has a threaded termination (2) of larger diameter screwed to the removable cover (6); the heel body (1 1) with concentric cavity (13) of the stud-shaped rod of striated metal (1) has a smooth contact surface (12) attached to the smooth contact surface (7) of the lid (6); and the conical cover (6) has its smooth contact surface (7) a concentric threaded cavity (9) in the cross-section of the cone that forms it, with a closed surface at the base (10) of the cone that forms it, which it will rest on the floor for use. Element for changing heel caps, according to claim 1, characterized in that the stud-shaped rod of striated metal (1) is concentrically embedded in the heel body (1 1) and the conical cap (6). Element for changing heel covers, according to claim 1, characterized in that the conical cover (6) has a closed smooth surface (10) of greater area at the base of its cone and has a smooth surface (7) with threaded concentric cavity (9) of less area and thread (9) receiving the threaded end (2) of the stud-shaped rod of striated metal in the cross-section of the cone that forms it. (Results 0)

Search SFT=(heel caps and heel and stud and thread*) (Results 9)
2:

1) Family number: 30126036 (WO8808678A1)

© PatBase

Title: SPORTS SHOE WITH ELASTIC HEEL COUNTER
Priority: DE19870006449U 19870506 DE19878706449 19870506 DE19878706449U 19870506
DE19870007691U 19870529 DE19878707691U 19870529 DE19878707691 19870529
WO1988DE00163 19880317 EP19880902402 19880317 DE19883868405 19880317
WO1988DE000163 19880317

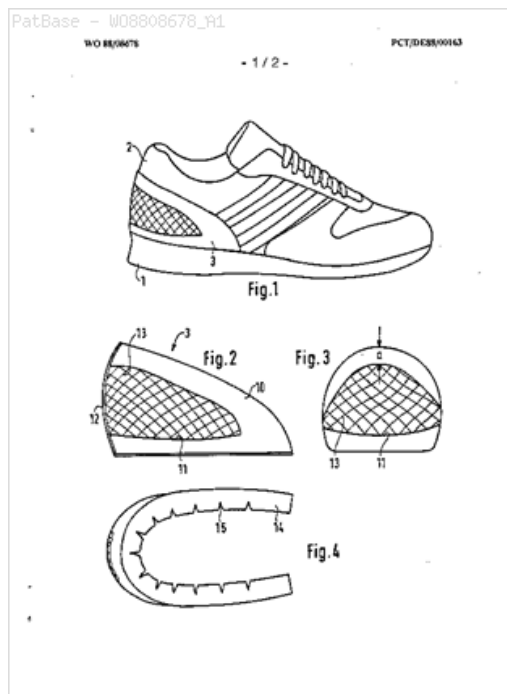
Family:	Publication number	Publication date	Application number	Application date
	AR243745 A1	19930930	AR19880310748	19880504
	AT72506 E	19920215	AT19880902402T	19880317
	AU198813949 A1	19881206	AU19880013949	19880317
	AU597812 B2	19900607	AU19880013949	19880317
	BRMU6802853 U	19900301	BR1988MU02853U	19880317
	DE3868405 D1	19920326	DE19883868405	19880317
	DE8707691 U1	19870910	DE19870007691U	19870529
	EP0348424 A1	19900103	EP19880902402	19880317
	EP0348424 B1	19920212	EP19880902402	19880317
	JP2503271 T2	19901011	JP19880502397T	19880317
	KR950003250 B1	19950407	KR19880701731	19880317
	WO8808678 A1	19881117	WO1988DE00163	19880317

Probable Assignee: ADIDAS AG
Assignee(s):(std): ADIDAS AG ; ADIDAS SPORTSCHUHE ; ADIDAS SPORTSCHUHFABRIKEN ADI DASSLER STIFTUNG AND ; ADIDAS SPORTSCHUHFABRIKEN ADID ; ADIDAS SPORTSCHUHFABRIKEN ADIDASSLER STIFTUNG AND
Assignee(s): ADIDAS SPORTSCHUHFABRIKEN ADIDASSLER STIFTUNG AND CO ; ADIDAS SPORTSCHUHFABRIKEN ADIDASSLER STIFTUNG AND CO KG ; ADIDAS SPORTSCHUHFABRIKEN ADI DASSLER STIFTUNG AND C ; ADIDAS SPORTSCHUHFABRIKEN ADI DASSLER STIFTUNG AND CO 8522 HERZOGENAURACH DE KG ; ADIDAS SPORTSCHUHFABRIKEN ADI DASSLER STIFTUNG AND CO KG ; ADIDAS SPORTSCHUHFABRIKEN ADI DASSLER STIFTUNG AND CO KG 8522 HERZOGENAURACH DE
Inventor(s):(std): ANDERIE WOLF ; WOLF ANDERIE
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD
Designated states: AT AU BE BR CH DE FI FR GB IT JP KR LI LU NL SE SU US
International class (IPC 8-9): A43B23/08 A43B23/16 A43B5/00 (Advanced/Invention)
International class (IPC 1-7): A43B15/00 A43B23/08 A43B23/16 A43B23/17 A43B5/00 A43B5/06
CPC: A43B23/16
European class: A43B23/16
JP class F-Term: 4F050 4F050/AA01 4F050/BC07 4F050/BF14 4F050/HA01 4F050/HA30 4F050/HA33 4F050/HA55 4F050/HA56 4F050/HA60 4F050/HA79 4F050/JA01 4F050/JA09
JP class F-Index: A43B23/08 A43B23/16
[Classification Explorer](#)
Cited documents: US2875533 A, GB2000958 A1,
Forward Citations: WO16002412, WO10038267, USD854303, USD853707, USD840663, US9795187, US9095188, US8677656, US10159310, JP2019033797, JP2016002412, JP2009022637, JP2005304653, EP2332433, EP2332433, EP2229833, DE8808615, DE4316228, DE20119907, AU2008362409,

Abstract:

A sports shoe, in particular a running shoe, has an elastically deformable heel counter arranged on the outside of the upper. To obtain a light heel counter which nevertheless provides adequate support, the heel counter (3) is formed from a frame or mesh made of a

hard but supple material.



2) Family number: 12017144 (US5988683A)

© PatBase

Title: Replaceable blade skate
Priority: CA19962169106 19960208 US19970797272 19970207
Family:

Publication number	Publication date	Application number	Application date
AT272428 E	20040815	AT19970101828T	19970205
CA2169106 AA	19970809	CA19962169106	19960208
CA2169106 C	20050913	CA19962169106	19960208
CN1147335 C	20040428	CN19971004851	19970208
CN1162497 A	19971022	CN19971004851	19970208
DE69730062 D1	20040909	DE19976030062	19970205
DE69730062 T2	20050127	DE19976030062T	19970205
EP0788818 A2	19970813	EP19970101828	19970205
EP0788818 A3	19971126	EP19970101828	19970205
EP0788818 B1	20040804	EP19970101828	19970205
NO970527 A	19970811	NO19970000527	19970206
NO970527 A0	19970206	NO19970000527	19970206
NO970527 L	19970811	NO19970000527	19970206
TW346405 B	19981201	TW19970102899	19970310
US5988683 A	19991123	US19970797272	19970207

Probable Assignee: QUIKBLADE INC
Assignee(s):(std): HETZLER MARKUS ; MULTIMATIC ADVANCE TECHNOLOGIE ; MULTIMATIC ADVANCED TECHNOLOGI ; VENIER FABIO ; QUICKBLADE INC ; MULTIMATIC ADVVANCED TECHNOLOGIES INC
Assignee(s): QUICKBLADE INC MARKHAM ; QUIKBLADE INC ; MULTIMATIC ADVANCED TECHNOLOGIES INC ; MULTIMATIC ADVANCE TECHNOLOGIES INC ; KWIKBRAD CO
Inventor(s):(std): VENIER FABIO ; HETZLER MARKUS ; FABIO VENIER ; MARKUS HETZLER ; KETZLER MARKUS
Inventor(s): MARKUS KETZLER
Agent(s): BORDEN LADNER GERVAIS LLP
Designated states: AT CH DE FI FR GB IT LI SE
International class (IPC 8-9): A63C1/00 A63C1/30 A63C17/18 (Advanced/Invention); A63C1/00 (Core/Invention)
International class (IPC 1-7): A63C1/00 A63C1/30 A63C17/18
CPC: A63C1/30
European class: A63C1/30
US class: 280/11.12 280/841 7/138 D21/771

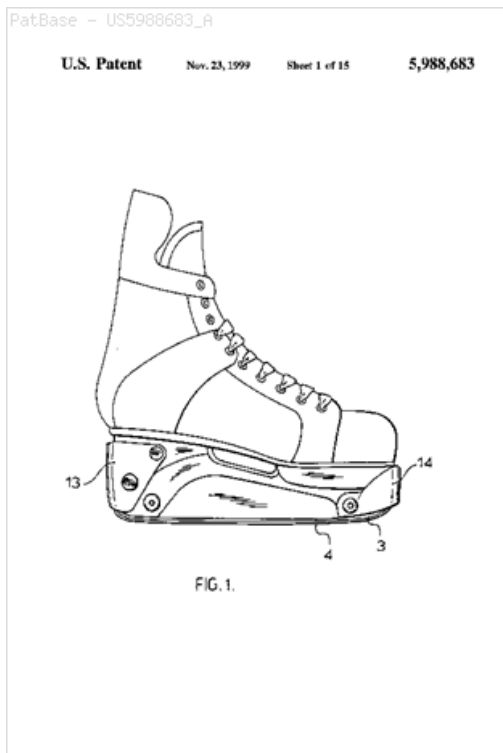
[Classification Explorer](#)

Cited documents: US5383674 A, US5248156 A, US5088749 A, US4517865 A, US4015762 A, US3015492 A, DE961871 A, DE759294 A, DE4127294 C1, DE269583 A, DE1180287 B,
Forward Citations: WO13022787, WO08086620, WO05094160, WO05094160, USRE44805, USD835740, USD835219, USD659216, USD631120, US9855487, US9416901, US9186569, US8844945, US8550472, US8353535,

US8038157, US7950676, US7758053, US7648146, US7387302, US7243924, US7234709, US6761363, US6485033, US2016242496, US2016193523, US2016114239, US2014284890, US2011121527, US2010253020, US2010176564, US2010109312, US2008001369, US2006208436, US2006103084, US2004100042, US10376771, US10195514, JP5570221, JP2010516306, EP2741831, EP2111269, EP2111269, CN105903173, CN102105197,

Abstract:

A replaceable blade skate comprises inexpensive, light, easily changed blades adapted to fit to multiple rocker curvatures. A torque limiting device provides for easy replacement and adjustment of blades by consumers. Replaceable toe and heel caps provide protection and color-coding. The sometimes undesirable gap between the boot and blade portion of the skate can be eliminated with the construction of the skate of the invention.



3) Family number: 19741265 (GB635097A)

© PatBase

Title: Improvements in or relating to the manufacture of hollow glassware

Family:	Publication number	Publication date	Application number	Application date
	GB635097 A	19500405	GB19470021013	19470801

Probable Assignee: THOMAS BINKS KITSON

Assignee(s):(std): THOMAS BINKS KITSON

International class (IPC 8-9): C03B9/18 (Advanced/Invention);
C03B9/00 (Core/Invention)

International class (IPC 1-7): A47L9/14 C03B9/18

CPC: C03B9/18

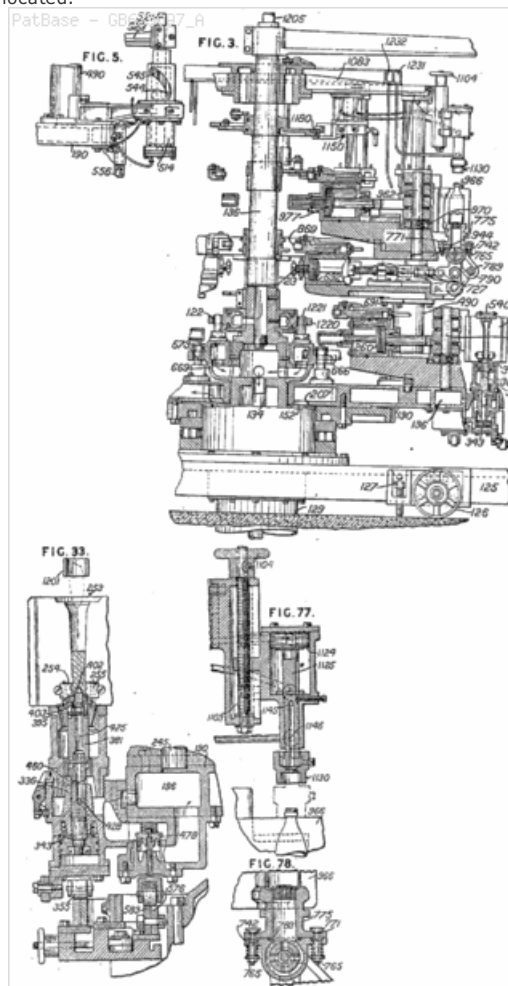
European class: C03B9/18

[Classification Explorer](#)

Abstract:

[Class 56] In a machine for making hollow glass articles, particularly bottles, and including improvements on the machine described in Specification 613,428, a gob is fed into a blank mould in which a parison is formed, the parison being engaged by a vacuum transfer head which swings it into a blow or finish mould. A number, e.g. ten, of sets of moulds and transfer mechanisms are mounted on a rotary structure, the finish moulds being at a higher level than the blank moulds. A bottle is made, in each set of moulds, in one and one half revolutions of the structure so that the positions of supply of the 'gob, and of removal of the bottle, are diametrically opposed. The blank moulds each include parts for finishing the neck of the bottle and, before the blow, a baffle plate is positioned at the top of the mould against which the bottom of the bottle is finished. The parison is thus finished at both ends and is substantially the same length as the finished article. This facilitates the seating of the parison in the finish mould in which the transfer head, which has engaged the finished bottle bottom after removal of the baffle plate from the blank mould remains during the final blow. The finish of the bottle neck in the blank mould is effected very quickly to allow a relatively long time for the blow in that mould. This ensures that the parison becomes cool enough to withstand the transfer without distortion. As shown, the rotary structure carrying the moulds, baffle plate and transfer mechanisms and operating means therefor, comprises a hollow bottom table 190 having sectorial compartments which are supplied with air for delivery to hollow columns 490 fitted with removable cooling-nozzles directed on to the moulds; the columns 490 serving also to support an upper ring 1083, carrying the final-blow apparatus, and an intermediate ring 944 carrying the finish moulds. The structure rotates around a central stationary hollow column 136 serving also to convey pressure air from a supply pipe 1205 to a distributor 1220 which is rotated by pins 1221 and is connected to five circumferentially spaced vertical manifolds which supply pressure air to pneumatic cylinders which operate the mould halves, the transfer and baffle mechanisms and the neck-forming and final blow means. The blow air is supplied from the manifolds through reducing valves, the hollow rings 1231, 1232 and appropriate pipes and control valves to the blank and finish moulds. The table 190 includes also an annular vacuum chamber 196 which is connected by pipes 666 to a distributor 669 which is rotated on the central column by pins 673. The distributor 669 is connected by a pipe 134 to a vacuum pump, the cooling air being supplied to the sectorial compartments through a conduit 129,

surrounding the pipe 134, and through ports 152, 207. The pneumatic cylinders, for actuating the mould-halves, baffle plates and transfer mechanisms, and for presenting the blow and vacuum means to the blank and finish moulds, are controlled by slide valves which are moved by adjustable cams either on the stationary base 125 or on the central column 136. The mould halves of both the blank moulds 253 and finish moulds 966 are mounted on pins 245, 962 and are opened and closed by pistons 260, 977 connected by linkwork to the moulds. When they are closed, they are sealed against heads 395 and the vacuum heads 775, respectively, by engagement with sloping flange surfaces thereon. Gobs are fed in succession to the blank moulds 253, Fig. 33, by a tube 1201 which swings about its upper end to keep pace with the mould being changed. As the gob falls into the mould, the plunger 381 rises to meet it, so that the mouth-forming projection 402 is positioned in the neck-forming mould parts 254, 255 as the gob reaches that position. Vacuum is applied, immediately, to the gob to pull it down satisfactorily, the rise of the plunger and the application of the vacuum being effected by means comprising a slide valve, operated by a cam-roller 355, which admits pressure air to the underside of the piston 343 which rises to bring the ports 460 above the sleeve 336, so that when the valve 478 is opened by the cam 583, 576, the vacuum chamber 196 is connected, via the ports 460 and passages 425, 403 to the neck-forming zone of the mould. The neck is formed very quickly and the cam-operated valves are moved to shut off the vacuum and depress the piston 343 whereby the ports 428 are registered with a pressure air supply port, so that when the blow-air control valve is actuated by its cam the blowing of the parison is effected, this occurring over a relatively long dwell in the blank mould. The baffle plate 540, Fig. 3, is, before the blow, positioned on the top of the mould to form the bottlebottom. The plate 540 is carried on an arm 523, Fig. 5, on a piston rod 521, the air supply to the cylinder 514 being controlled by a valve regulated by a cam which contacts with the roller 556. The plate is applied to the mould during the descent of the piston, the necessary swing of the arm 523 being obtained from the engagement of a roller 544 in the cam slot 545. The blow being completed, the baffle plate leaves the mould, the transfer head 775 starts moving down to the parison and the vacuum comes on to the head. The vacuum head 775 is clipped on to its support 742, Fig. 78, by engaging open-ended slots in the flange 771 with the heads of spring-urged pins 765, and turning the head on its spigot 783. The head is pivoted in a bell-crank lever which is provided with passages whereby the vacuum is applied to the head, the lever being swung under the control of a cam, on the central column, which contacts with a roller 869 on the valve controlling the cylinder 692. A roller 789 engages a slotted link 790 to bring the head into an upstanding position as it is swung from the blank mould to the finish mould. The finish mould halves then close upon the parison and upon the head 775 from which the vacuum is then shut off. The neck of the bottle protrudes from the finish mould 966 and after a period sufficient to allow the parison to rehear, the blow head 1130, Fig. 77, descends and seals on to the mould around the bottle neck. The blow means comprise a piston 1124 under the control of a valve 1150, Fig. 3, regulated by a cam 1180. When the piston has presented the head 1130 to the mould, a port 1145 is aligned with a blow-air supply port 1146 and the final blow is made. The finish mould opens, the bottle is removed by the take-out arm and the transfer head starts down to engage another parison formed in the blank mould. After the transfer of the parison to the finish mould, the blank mould is left open whilst being exposed to air from the supply port 428, Fig. 33, issuing through the inclined nozzles 403. The air is directed against the insides of the mould ports, and as it carries oil, the mould surfaces are lubricated before the mould is closed to receive another gob. The machine is provided with adjustments whereby the moulds may be replaced to make articles of different shapes and sizes, and the timing of the various operations varied accordingly. The cams on the control column and on the stationary base are made in relatively slidable sections so that the effective lengths of the cams and the operational timing thereof may be adjusted. The adjustments are effected by manual means in accessible positions on the machine, the manual means being connected through suitable shafting and gearing to the corresponding cams. The spacers 381, 383 are replaceable by spacers selected, as regards length, to suit the particular blank moulds to be used. The baffle plates 540 are removably clipped in position, and are replaceable by plates of a different size or shape. The baffle-carrying arms 523 are adjustable vertically and angularly on the piston rod 521 and fine vertical adjustments of the baffle may be effected by screw means at the free ends of the arms 523. The transfer mechanisms are detachable as units by removing screws 691. The vacuum heads 775 are removeable by disengagement from the headed pins 765, and adjustments of the swing are effected by turnbuckles 727 and piston stopscrews 723. The heads 775 are also adjustable on their pivots to ensure accurate seating in the moulds. The heights of the finish moulds are determined by collars 970 screwed on the hinge pins, and the blow heads are vertically adjusted by screw means 1104, 1103. The heads 1130 have a quick-coupling attachment with the piston rod 1125. The whole machine is mounted on wheels 126 so that it may be wheeled over a pit which receives the air and vacuum conduits, jack screws 127 supporting the machine when it is properly located.



4) Family number: 70604534 (WO19008428A1)

© PatBase

Title: SYSTEM FOR QUICKLY REPLACING HEEL TOPS SYSTEME DE CHANGEMENT RAPIDE DE TALONNETTES INTERCHANGEABLES SIS

Priority: CO20170006829 20170707

Family:

Publication number	Publication date	Application number	Application date
CO20170006829 A1	20180710	CO20170006829	20170707
WO19008428 A1	20190110	WO2017B58368	20171222

Probable Assignee: RESTREPO CASTANO RODRIGO

Assignee(s):(std): RESTREPO CASTANO RODRIGO

Assignee(s): RODRIGO RESTREPO CASTANO

Inventor(s):(std): RESTREPO CASTANO RODRIGO

Inventor(s): RODRIGO RESTREPO CASTANO

Agent(s): JOHAN SEBASTIAN GOMEZ VILLA; GOMEZ VILLA JOHAN SEBASTIAN ET AL

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

International class (IPC 8-9): A43B21/39 A43B21/42 A43B21/52 (Advanced/Invention)

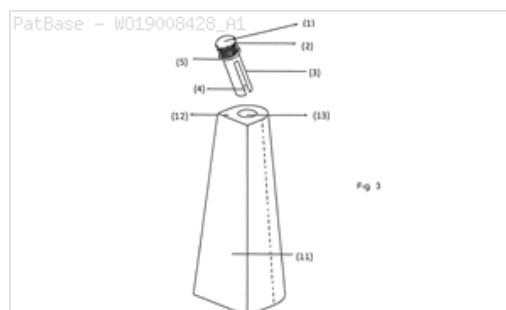
CPC: A43B21/39 A43B21/42 A43B21/52

[Classification Explorer](#)

Cited documents: WO05082189 A1, US2937461 A, GB2214400 A1, GB2166338 A1, ES74124 U, DE521513 A,

Abstract:

The invention relates to a system for quickly replacing heel tops, comprising a coupling element formed by a metal rod having a first hollow end provided with a smooth surface and a longitudinal groove and a second solid end provided with a threaded surface, the first end being separated from the second end by a washer that is solidly connected to the body of the metal rod, such that the first end of the rod is press-fitted into a concentric cavity in the body of the heel while the second end of the rod is coupled to the threaded cavity in the conical top piece, the contact surfaces of the top piece and the heel being smooth such that the base of the heel can be closed.

**5) Family number: 22914603** (US3162961A)

© PatBase

Title: SHOE AND HEEL ASSEMBLY

Priority: US19630290445 19630625

Family:

Publication number	Publication date	Application number	Application date
US3162961 A	19641229	US19630290445	19630625

Probable Assignee: MILLIGAN JESS R

Assignee(s):(std): MILLIGAN JESS R

Inventor(s):(std): MILLIGAN JESS R

International class (IPC 8-9): A43B13/34 (Advanced/Invention); A43B13/00 (Core/Invention)

International class (IPC 1-7): A43B21/24

CPC: A43B13/34

European class: A43B13/34

US class: 36/42 36/83

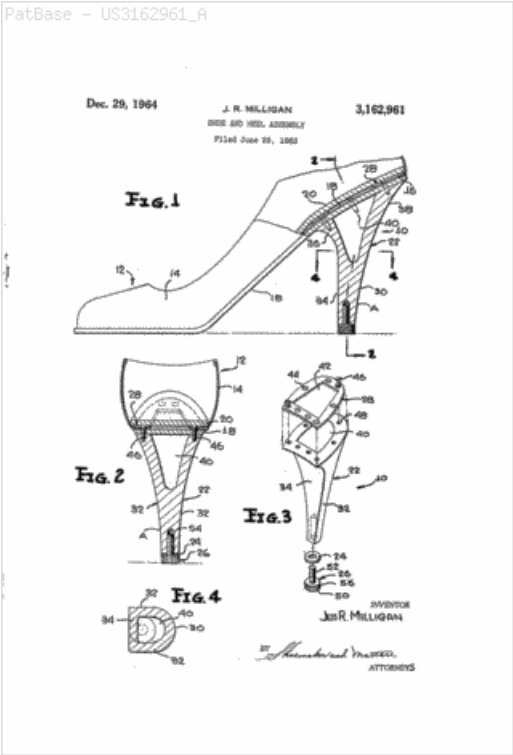
[Classification Explorer](#)

Cited documents: US2852866 A, US2544878 A, US2495820 A, US1934092 A, US1450705 A, US1411264 A, IT550767 A, GB847575 A,

Forward Citations: US2012304494, US2008263898, US2007062066,

Abstract:

(Claim 1) An aluminum, or the like, ladies' shoe heel having a removable and replaceable lift, the upper portion of the heel which is approximately one-half the length of the heel being hollow and having a substantially centrally disposed opening therein leading into said hollow portion defined by a relatively narrow heel mounting rim, the lower portion of the heel being gradually reduced in cross-sectional thickness with respect to the upper portion thereof and comprising approximately one-half of the length of the heel, a threaded bore centrally in and axially of the bottom portion of the heel and with the remainder of the bottom portion thereof being solid, a removable and replaceable lift, said lift including an outer wear portion and a threaded stud for removable engagement in said threaded bore, an attaching plate in the form and of substantially the dimensions of the said heel mounting rim and said plate having a central opening of substantially the same size as the said opening in the heel, the attaching plate being positionable on the inner side of the heel part of the outer sole of the shoe that extends over the opening in the heel and the rim thereof and said plate and the opening therein being in alignment with the rim and the opening in the heel, an inner sole of the shoe to extend over the attaching plate, interengaging means for securing the heel to the shoe and which means is adapted to extend from the attaching plate through the subjacent outer sole to the rim on the upper end of the heel for thus permanently securing the heel to the shoe, and the heel as attached to a shoe will, due to the downward pressure of a wearer's heel in the shoe, allow that portion of the inner sole and a subjacent portion of the outer sole to be flexed slightly into the aligned openings in said attaching plate and in the heel and provide for a greater comfort to the wearer.



6) Family number: 19719735 (US2645772A)

© PatBase

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Assignee(s):

Inventor(s):(std):

Inventor(s):

International class (IPC 8-9):

International class (IPC 1-7):

CPC:

European class:

US class:

[Classification Explorer](#)

Cited documents:

Forward Citations:

STUD DRIVING TOOL

US19510225146 19510508

Publication number	Publication date	Application number	Application date
CH310006 A	19550930		19520508
GB729651 A	19550511	GB19520010137	19520422
US2645772 A	19530721	US19510225146	19510508

REMINGTON ARMS CO INC

REMINGTON ARMS CO INC

REMINGTON ARMS COMPANY INC

COMPANY INC REMINGTON ARMS ; INC REMINGTON ARMS CO ; WALKER MERLE H

INC REMINGTON ARMS COMPANY

B25C1/12 (Advanced/Invention);
B25C1/00 (Core/Invention)

B25C1/12 F26B23/00

B25C1/123

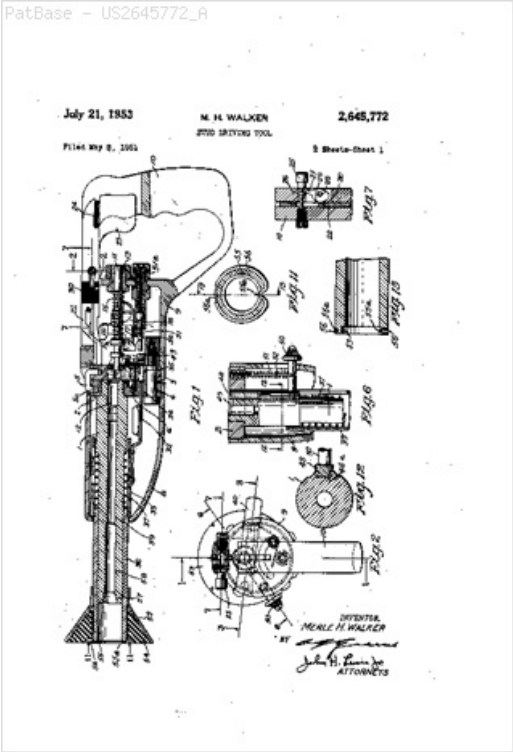
B25C1/12B

227/8 81/53.2

[Classification Explorer](#)

US2518395 A, US2501362 A, US2499227 A, US2400878 A, US1984117 A, US1365870 A, US8464455, US7540400, US7395955, US3407983, US3075197, US3056965, US3054110, US3024531, US3009157, US2968811, US2963707, US2957175, US2945236, US2932033, US2778021, US2775762, US2773259, US2766451, US2731636, US2012174454, DE1268076, DE1134640,

10137/52. Class 119. Explosively-operated device for firing projectile-like studs into masonry comprises a barrel 1 screwed into a frame 2 on which is hinged a breech block 3, a breech lock 5 securing the block 3 when it is aligned with the barrel. Swinging of the breech block is limited by movement of a stop pin 7 in an arcuate slot 6 in the frame. A cover 8 houses parts of an automatic safety device and a cartridge ejecting system while a similar housing 9 enclosing the firing mechanism and the rest of the safety mechanism is integral with a handle 10. The spring-pressed firing pin 11 aligned with the rim of a cartridge in the chamber 12 is supported in a bushing 13 in the rear wall of the housing and in a bore 14 in the breech block 3. A sear 17 is provided with a flange 19 engaging a flange 16 on the firing pin to hold the pin in the cocked position and has an arm 20 contacting a cam surface 21 on a slidable trigger bar 22, so that when the trigger is pulled rearwardly by means of a finger piece 23 the cam 21 urges the sear to the release position. A safety plunger 25, Fig. 7, has a flange 26 engaging a cam 28 provided with a roughened surface opposed to a similar surface on the trigger bar. By depressing the plunger the cam is rotated to move the roughened surfaces out of engagement so that the trigger may be operated. On release of the plunger the surfaces engage and any rearward movement of the trigger rotates the cam into closer engagement, thus locking the trigger. The sear is held by a spring-pressed lock 31 moved rearwardly to release the sear by means of a finger 32 on a tube 33 within the cover 8. When the breech is closed and locked as in Fig. 1, holes 34, 35 are aligned, so that the finger 32 can move to engage the sear lock. When the breech is not locked the holes are out of alignment and the sear lock cannot be moved. The tube 33 carrying the finger 32 is moved when the device is pressed against a surface so that an extension 36 of the tube slides telescopically on the barrel against the action of a spring 37. On firing of a cartridge the sear cannot re-engage the flange 16 under the influence of its spring 39 until the breech is opened by means of a slide 40. The slide 40 movable in a groove in the breech block is slotted at 41 to straddle the firing pin forwardly of a cocking flange 42 and is urged by a spring 44 to the position shown in Fig. 3, when a cam pin 45 extending into a notch 46 in the frame latches breech block and frame in alignment. By forcing the slide inwardly, the cam pin is disengaged from the notch and the frame can be turned relatively to the block. Simultaneously a cam surface 47 on the slide engages the flange 42 to move the firing pin rearwardly out of the path of the frame and the pin 45 rides on the periphery of the frame, thus forcing the slide to the right and wedging the firing pin back beyond the cocked position so that the sear re-engages the flange 16. Further swinging of the frame exposes the breech, the pin 45 acting as a detent to hold the breech open. A cartridge ejector 48, Fig. 10, mounted in a groove in the barrel has a claw 49 extending beneath the cartridge rim, so that by rearward movement of a handle 50 the cartridge is withdrawn. The muzzle end of the barrel may be counterbored to facilitate removal of the device after firing when studs provided with a sabot as described in Specification 729,649 are used. The counterbore is in two parts, an outer flared section 57 and an inner cylindrical part 58. A conical guard 53 filled with neoprene 54 or other rubberlike material may be fitted over the extension 36. Interchangeable extensions with fitted guards to suit particular jobs may be provided. The extensions may be counterbored as at 55 to accommodate metal or other discs held in place by detents integral with a spring 56. The projectile-like studs pass through the discs which then serve as washers. The device is placed in position by aligning guide notches on the guard with guide lines on the work.



7) Family number: 22734848 (US2887925A)

© PatBase

Title: DEFORMABLE COLLAR FASTENER FOR POWDER-ACTUATED TOOLS

Priority: US19540438042 19540621

Family:	Publication number	Publication date	Application number	Application date
	US2887925 A	19590526	US19540438042	19540621

Probable Assignee: OLIN MATHIESON

Assignee(s):(std): OLIN MATHIESON

Assignee(s): OLIN MATHIESON CHEMICAL CORP

Inventor(s):(std): KOPF ROWLAND J

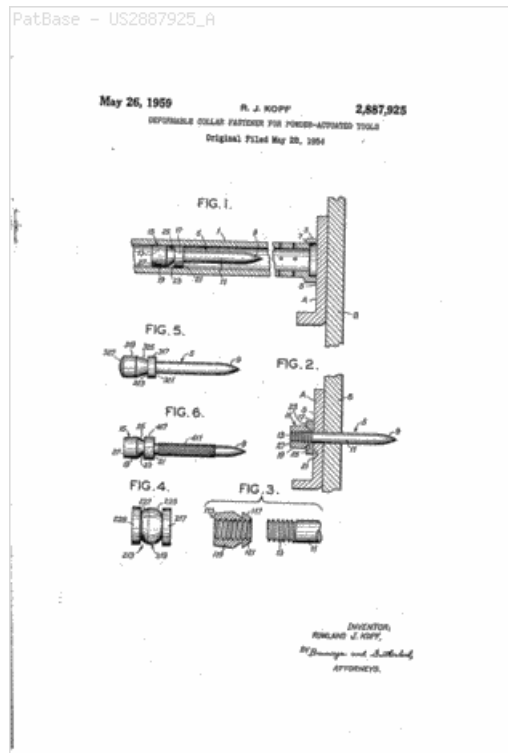
International class (IPC 8-9): F16B19/14 (Advanced/Invention);
F16B19/00 (Core/Invention)

International class (IPC 1-7): B25C1/18 F16B19/14

CPC: F16B19/14 Y10T29/49833

European class: F16B19/14
US class: 29/432 411/441
[Classification Explorer](#)
Cited documents: US2761348 A, US2740965 A, US2724116 A, US2722004 A, US2722003 A, US2666252 A, US2575079 A, US2520259 A, US1388363 A, GB697129 A, FR1055269 A, FR1028377 A, BE519586 A, BE518452 A,
Forward Citations: US9488207, US3377903, US3111673, US3072912, US2990739, US2014314521, US2012321413,

Abstract:
(Claim 1) 1. A fastener driving tool of the character described comprising a stud having an elongate shank formed with a point at its forward end and a sabot at its other end, said sabot being of relatively larger diameter than that of said shank and having an exterior annular groove which extends nearly completely through said sabot except for a relatively thin connecting portion and which defines a front collar and integral back head of equal outer diameter, the back head being of an axial dimension greater than that of said collar, the back head further having an exterior front face tapering inwardly in the direction of said collar and said collar having a transversely extending back face so that the front face of the head extends to a depth substantially identical with said extension of said groove- and tends to expand the collar radially when the head collar is moved forwardly relative to the collar, and said sabot being formed of a substantially incompressible deformable material having the property of plastic flow, whereby said collar is expanded by the head when the collar is forced back onto at least a part of said front face of the head upon engagement with the work material into which the fastener is driven.



8) Family number: 22443871 (US2722084A)

© PatBase

Title: Mold mechanisms for glass machines
Priority: US19460688470 19460805 US19510257021 19511119 US19510257022 19511119
Family:

Publication number	Publication date	Application number	Application date
US2722084 A	19551101	US19510257022	19511119
US2757484 A	19560807	US19510257021	19511119
US2811814 A	19571105	US19460688470	19460805

Probable Assignee: HENRY C DAUBENSPECK
Assignee(s):(std): HENRY C DAUBENSPECK
Inventor(s):(std): WINDER SAMUEL E
International class (IPC 8-9): C03B9/18 (Advanced/Invention); C03B9/00 (Core/Invention)
International class (IPC 1-7): C03B9/18
CPC: C03B9/18
European class: C03B9/18
US class: 414/744.8 65/167 65/171 65/173 65/237 65/239 65/305 65/338 65/355 65/361
[Classification Explorer](#)

Cited documents: US927593 A, US869538 A, US806669 A, US791410 A, US744007 A, US2508890 A, US2466669 A, US2398465 A, US2388876 A, US2376928 A, US2362427 A, US2328873 A, US2314290 A, US2289046 A, US2278572 A, US2269391 A, US2259991 A, US2254992 A, US2205261 A, US2188108 A, US2161255 A, US2129614 A, US2123145 A, US2069130 A, US2063463 A, US2059546 A, US2043065 A, US2031739 A, US2018030 A, US2018021 A, US2011187 A, US2002213 A, US1992951 A, US1968777 A, US1959428 A, US1957410 A, US1956203 A, US1945985 A, US1943483 A, US1931375 A, US1929842 A, US1911119 A,

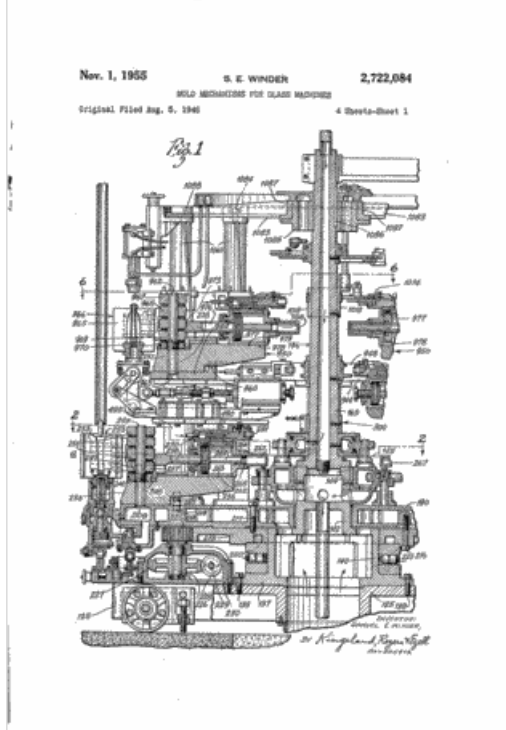
US1875818 A, US1869249 A, US1868248 A, US1843160 A, US1826019 A, US1792988 A, US1740310 A, US1739845 A, US1737524 A, US1729363 A, US1718651 A, US1693069 A, US1689407 A, US1680544 A, US1679502 A, US1670821 A, US1654731 A, US1648792 A, US1647532 A, US1499522 A, US1490182 A, US1458454 A, US1385428 A, US1353986 A, US1329253 A, US1277607 A, US1255317 A, US1241516 A, US1228469 A, US1205354 A, US1105510 A, US1072553 A, GB164254 A, DK47140 A,

Forward Citations: WO8403501, WO8403499, US4528017, US4432783, US4339264, US4226607, US4203749, US3839004, US3642462, US3528793, US3479173, US3424569, US3141755, US3015189, EP0118298, EP0118298,

Abstract:

(Claim 1) 1. In a glass machine of the type having a plurality 2_3 of blank and finish molds supported on a common base and an individual cylinder for each mold, the combination of an individual block for removably mounting each associated mold and cylinder, said blocks being identical for free interchange between molds and cylinders, means '(including a mold hinge pin accurately located and secured in each of said block for accurately locating an associated mold thereon, and means including accurately located interlockin-,ly engageable surfaces on each block and each cylinder extending in at least two mutually 3,5 perpendicular directions for accurately locating and aligning the cylinders on their associated blocks in predetermined relatiol to the respectively associated molds.

PatBase - US2722084_H



9) Family number: 1097916 (US3840310A)

© PatBase

Title: MOLD FOR MAKING SHOES WITH MOLDED BOTTOMS

Priority: DE1972224231 19720518

Family:	Publication number	Publication date	Application number	Application date
	DE2224231 A1	19731129	DE1972224231	19720518
	US3840310 A	19741008	US19730345858	19730329

Probable Assignee: DESMA WERKE GMBH

Assignee(s):(std): DESMA WERKE GMBH

Assignee(s): DESMA WERKE GMBH 2807 ACHIM ; DESMA WERKE GMBH DT

Inventor(s):(std): KLEE W ; RAFALSKI P ; WESSOLOWSKI H

Inventor(s): WESSOLOWSKI H DT ; RAFALSKI P DT ; KLEE W DT

International class (IPC 8-9): B29C45/37 B29D35/00 (Advanced/Invention); B29C45/37 B29D35/00 (Core/Invention)

International class (IPC 1-7): A43D65/02 B29C7/00 B29F1/14 B29H5/12 B29H7/08

CPC: B29C45/37 B29D35/0018

European class: B29C45/37 B29D35/00B2

US class: 249/119 249/91 425/11.9 425/119 425/129.2

[Classification Explorer](#)

Forward Citations: WO08043277, WO05115732, US6699028, US5855925, US5580507, US5435959, US4032611, US2012096653, US2006110487, GB2456250, FR2451815, EP0273028, EP0273028, EP0018714,

Abstract:

A metal mold for forming and attaching a shoe sole to the bottom of a lasted upper comprising a bottom part, a surrounding side part open at the top across which a lasted shoe upper is adapted to be supported and a lining disposed within the cavity constituted by the bottom and surrounding side part comprised of a plastic material which has been molded to a pattern of the bottom to be formed so as to correspond to the exact configuration of the bottom. The lining is detachably attached to the mold to enable replacing it with a lining of a different configuration to adapt the mold to the manufacture of shoes with a variety of bottom formations, and when

employed in conjunction with a split mold, that is, one in which the side part is formed in two halves so as to be movable laterally with respect to the bottom part, the side parts of the lining are integrally connected at the heel end to enable moving them away from each other with the lateral movement of the side parts of the mold. The lining is preferably comprised of polyurethane resin and is relatively thin so that the heat from the molded material diffuses quickly to the surrounding metal of the mold. 1 Claim, 3 Drawing Figures

