No. 716,071. Patented Dec. 16, 1902.

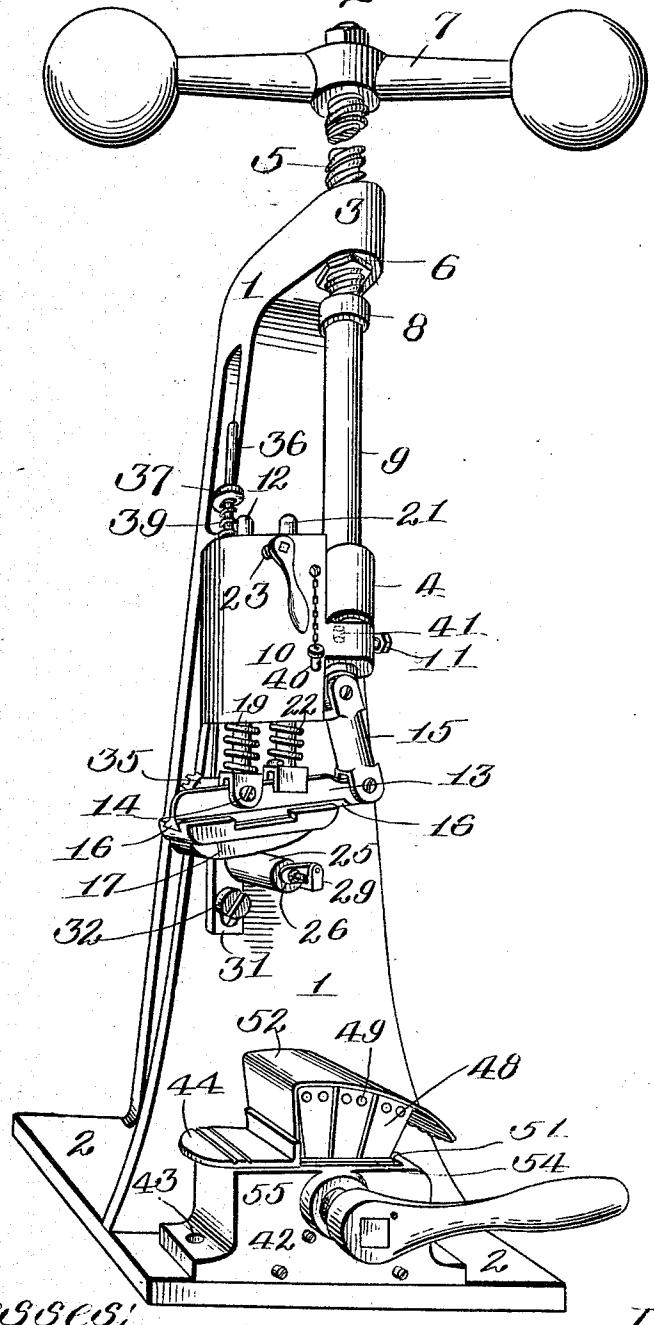
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STAMPING PRESS.

(Application filed Feb. 8, 1902.)

(No Model.) 3 Sheets—Sheet 1.

Fig. 1.



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Fig. 8

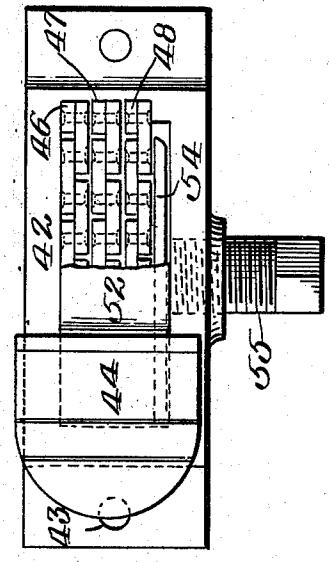


Fig. 7.

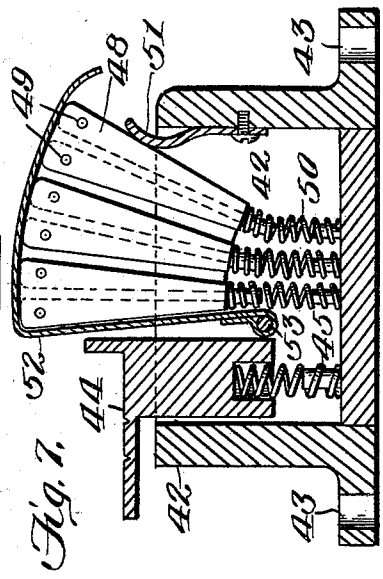


Fig. 2.

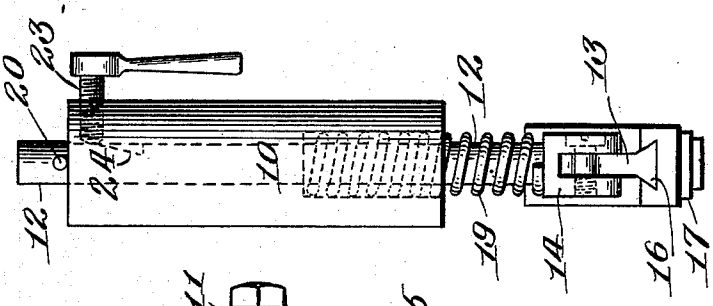
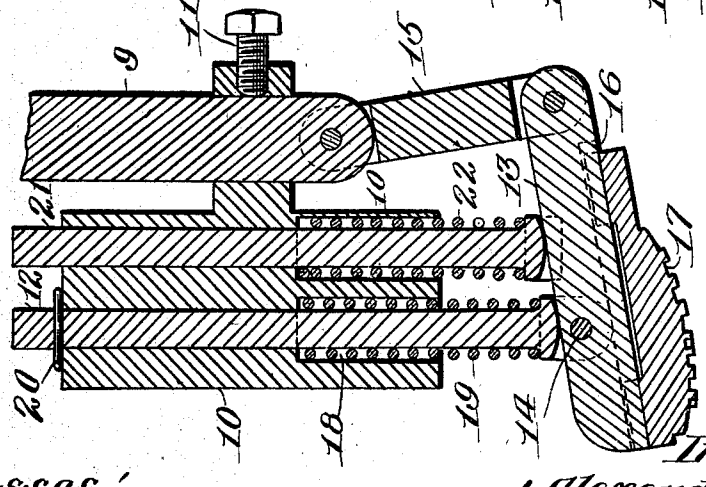


Fig. 3.



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Fig. 4.

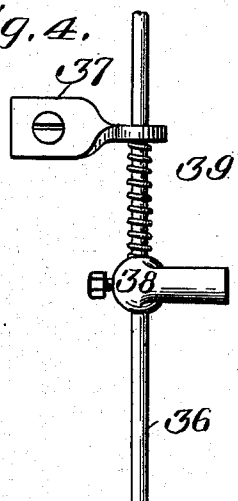


Fig. 6.

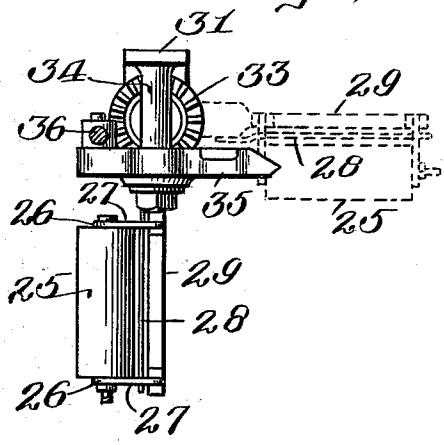


Fig. 5.

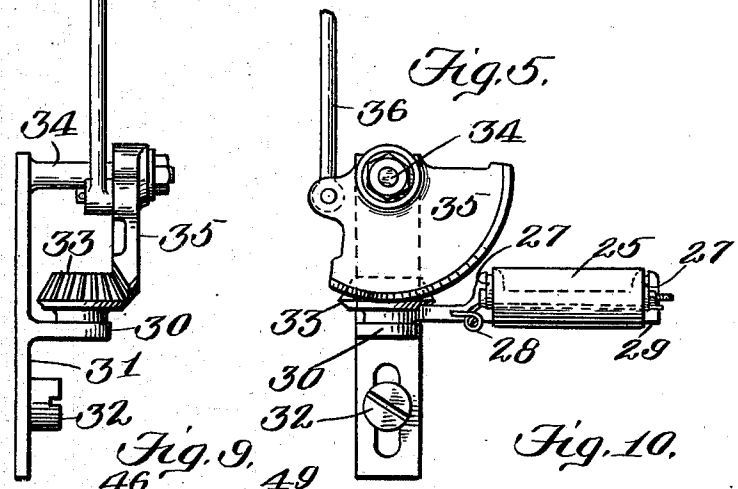


Fig. 9.

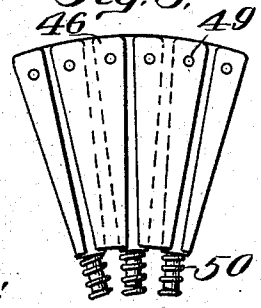
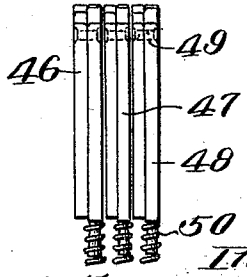


Fig. 10.



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UNITED STATES PATENT OFFICE.

ALEXANDER LION AND MAURICE EDWARD MOSELY, OF SYDNEY, AND ALBERT HOWELL SPROULE, OF HURSTVILLE, NEW SOUTH WALES, AUSTRALIA, ASSIGNORS TO SAID LION AND MOSELY.

STAMPING-PRESS.

SPECIFICATION forming part of Letters Patent No. 716,071, dated December 16, 1902.

Application filed February 8, 1902. Serial No. 93,269. (No model.)

To all whom it may concern:

Be it known that we, ALEXANDER LION and MAURICE EDWARD MOSELY, merchants, residing at No. 44 Carrington street, Sydney, and ALBERT HOWELL SPROULE, residing at Queens road, Hurstville, near Sydney, in the State of New South Wales and Commonwealth of Australia, subjects of the King of Great Britain, have invented certain new and useful Improvements in Stamping-Presses, of which the following is a specification.

This invention relates to an improved press and improved adjusting base or abutment specially devised in order that made-up shoes might be stamped or marked with a trade mark or name or other designs in a quick and easy manner on the inside of the sole or sock-lining, at or near the waist, where said mark, &c., may be easily seen; but although devised for this special purpose this improved press, with or without the improved adjusting-base, may be used for similarly stamping and marking other articles.

An improved press and improved adjusting base or abutment for stamping and marking articles, specially the sock-linings of made-up shoes, and constructed according to this invention consists, essentially, of devices for lowering and pressing a plunger toward a base or abutment, a carrier for an elastically-held stamp or die whose face will oscillate on the surface to be stamped or marked, a holder for said carrier to insure a straight lift from said face after the marking, an automatic inking device to pass across the face of the stamp or die, and a base or abutment whose outline will automatically adjust itself to the outside contour of the article to be stamped or marked, and although all these are essential to the complete marking with ink of a made-up shoe or other article with irregular contour, yet with one or more of these parts rendered inoperative or replaced by others, the press is equally useful for stamping or marking other articles—for instance, the inside of the uppers of boots, the inside bands of hats, and many other things.

In order that this invention may be clearly understood, reference will now be made to the drawings herewith.

Figure 1 is a perspective view of an improved press and improved adjusting base or abutment for stamping and marking, as when the plunger is at the uppermost part of its stroke and the die or stamp is being inked. The other figures, upon a larger scale, are as follows: Figs. 2 and 3 are elevation and section, respectively, of the bottom of the plunger, the carrier, and the elastically-held stamp or die. Figs. 4, 5, and 6 are side and front elevations and plan, respectively, of the inking roller and mechanism. Figs. 7 and 8 are section and plan, respectively, of the adjusting base or abutment; and Figs. 9 and 10 are side and end elevations, respectively, of the linked floor of said adjusting base or abutment.

An appropriate upright frame 1, having a base 2 and lugs or bosses 3 and 4, carries the whole of mechanism for stamping and marking. The frame has a screw 5 on its upper end, which passes through the nut 6 in the lug or boss 3 and has a cross-handle 7 above, while at its lower end it engages a bearing 8 in the upper end of the plunger 9, which has bearing in lug or boss 4 and is prevented from revolving by a feather therein and a feather-way on said plunger. (Not seen.)

Below the lug 4 the carrier 10 is affixed to plunger 9 and retained thereon in any adjusted position by set-screw 11. Through the carrier 10 passes the sustaining-rod 12 of the die or stamp holder 13, to which latter it is knuckle-jointed at 14. The holder 13 is held at its other end by the link 15, which attaches it to the plunger 9. The holder has dove-tailed or V slides 16, Fig. 2, onto which take corresponding slides on the stamp or die 17 and jam thereon, say, by a slight taper or by other devices, if preferred. The die or stamp 17 may have lettering or other designs on its face, and it is curved when required, as shown, so as to oscillate on the surface to be marked, though it may be straight or of other contour to suit the surface to be marked. Between the knuckle-joint 14 and the carrier 10 and in a recess 18 in the latter is a helical spring 19, pressing the holder 13 and the die or stamp 17 downwardly, while a pin 20 at top limits the extent of such downward thrust. In or-

der to effect an impression, a rod 21, with helical thrust-spring 22, is placed between the knuckle-joint or fulcrum 14 and the link 15, and thus equalizes and distributes the downward thrust as the die or stamp meets the surface to be marked. The stamp or mark made upon the surface by the downward thrust of the die would likely smudge or blur or be damaged should the die or stamp 17 oscillate back over it upon the upward stroke of the plunger. In order to prevent this after the downward stroke is completed, the die 17 is locked in such position relative to the carrier 10 by means of set-screw 23, having handle. The inner end of the set-screw takes against an inclined face 24, so that upon releasing the pressure against said face the rod 21, the holder 13, and the die 17 gradually (instead of suddenly, as would be otherwise) recover their normal stamping position.

The die or stamp 17 and the mechanism before described are sufficient for stamping a design on more or less impressible surfaces; but on harder surfaces it is necessary to have ink or coloring on the face of the die or stamp and so leave an inked impression.

The following mechanism will automatically ink the die 17, the ink being supplied and spread by hand or by other means on the roller 25. This roller is held in bearings 26 on radial arms 27, pressed upwardly by spring 28. The arms 27 are on the swinging arm 29, whose center has bearing 30 in bracket 31 (fixed to frame 1 by screw-bolt 32) and carries bevel-toothed pinion 33. This bracket 31 also carries spindle or pivot 34 for sector bevel-toothed wheel 35, in gear with pinion 33. A connecting-rod 36 is jointed to sector 35 and has a bearing 37, affixed to frame 1, and it has an adjustable tappet 38, adapted to be acted upon by the top of carrier 10 on its upward stroke and to be recovered to normal position by the helical spring 39, between it and bearing 37. The upward movement of the tappet 38 and the rod 36 partly revolves the sector 35, and thus causes the pinion 33 to swing the arm 29 around and carry the inking-roller 25 under the die 17 (against which it is upwardly pressed) and so ink it. This inking will take place at the end of each full upstroke unless prevented. If it be not desired to so ink or to use the press without inking the die at all, the headed pin 40, hanging handily, as shown in Fig. 1, is placed in hole 41, and thus will check the upward stroke before the tappet 38 can be acted upon and prevent movement of the inking mechanism. If the pressure of the stamp or die were allowed to act upon the sock-lining of a completed shoe having the sole unsupported, the said sole would likely be broken, destroyed, or at any rate damaged to the prejudice of any sale of such shoe. To obviate this, an adjusting base or abutment is provided, adapted to take upon and be removable from the base 2 of the press. This base consists of a box or casing 42, having orifices 43 to take upon pintles (not seen) on said base 2. In this casing 42 are the heel-piece 44, supported on spring 45, and the linked floor, of three independent sets of sector-shaped links 46, 47, and 48. These links are pivoted or jointed together by flat-headed pins 49, supported by springs 50, and rest against flat spring 51. A leather or textile or soft band 52 reaches from bar 53 over this linked floor to prevent scratching or marking of the sole of the shoe placed thereon. A keeper-plate 54 with a set-screw 55 is used to clamp the whole together after pressure of the shoe or article thereon has caused the adjusting-base to take the contour of such shoe or article, so that no further regulation is required until another shoe or article of different contour is to be stamped or marked.

In use for stamping or marking the inside of a made-up shoe the said shoe is placed upon the adjusting-base while the parts are loose and capable of adjusting themselves and pressed thereon, when the heel-piece 44, which is interchangeable, and the links 46, 47, and 48 of the floor will adapt themselves to the shape of the outside of said shoe, in which position they are clamped by plate 54 and set-screw 55. The plunger 9 is then brought down (after the inking, if desired, of the die 17 has taken place, as before described) and the shoe is stamped and marked on its lining at or near the waist by the die 17, oscillating upon said lining, with the pressure of the screw 5 distributed by the springs 19 and 22. Now by the set-screw 23 the operator locks the die 17 in its then position and reverses the screw 5. The reversal of the screw 5 causes the plunger 9 to rise and carry with it all the parts, as before explained. The inking mechanism, if the headed pin 40 is not in use, then swings around and passes the roller 25 over the face of the die 17 and inks the latter. The roller 25 is constructed of such material which in connection with the spring 28 during the inking operation will cause the roller to conform to the shape of the die while inking it. After the shoe has been stamped it is removed and another shoe placed on the adjustable base and the operation of stamping is repeated in the manner as set forth.

Though the adjusting base is shown with a convex surface in part and with an interchangeable heel-piece, it may have any other desired contour to suit articles to be stamped or marked. This base may further be wholly removed and a rigid anvil or other base or abutment substituted, or an india-rubber or other soft or flexibly-faced base might be used, as most suitable for any or many of the articles or materials which might be stamped or marked by this machine.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is—

1. In a stamping-press, a plunger, a stamp-

holder linked at one end to said plunger, a carrier adjustably secured to the plunger and yieldingly connected with said holder, inking mechanism actuated by the movement of the carrier, and a base formed of a plurality of spring-supported sections suitably connected together.

2. In a stamping-press, the combination with a plunger, of a carrier adjustably connected thereto, a thrust-rod extending through said carrier, a holder jointed near one end to said rod, a stamp connected to the holder, a spring mounted on said thrust-rod, a stop secured to said thrust-rod, a rod 21 extending through the carrier and engaging the holder, a spring mounted on said rod 21, and a link for connecting one end of the holder to the plunger.

3. In a stamping-press, the combination with a plunger and a holder carrying a stamp, said holder suitably connected to the plunger, of a carrier adjustably secured to the plunger and pivoted to the holder, and means engaging with the carrier for causing the stamp after an impression has been made to gradually resume its normal stamping position.

4. In a press of the class described, the combination with a carrier and a stamp, of a spring-pressed inking-roller arranged below the carrier, a swinging arm carrying the said roller, a pinion connected with said arm, a sector engaging said pinion for operating it, a spring-pressed rod connected with the sector for operating it, and means connected to the rod and engaged by the carrier for causing the operation of the rod.

5. In a stamping-press, the combination with a stamping mechanism, of a base comprising in its construction a spring-supported heel-piece and a plurality of spring-supported sections suitably jointed together, and means for clamping the heel-piece and sections in their adjusted position.

6. In a press of the character described, the combination with a fixed base, of an adjustable base mounted thereon and consisting of a casing, a plurality of pivoted links mounted therein, springs for supporting the said links, a heel-piece mounted in the casing, a spring for supporting the heel-piece, a clamping-plate for the said links and piece, a screw for operating the said plate to clamp the said links and piece, and a protecting-band for said links and piece.

7. In a press of the character described, the combination with a stamping mechanism, of an adjustable base for supporting the article operated upon, said base comprising in its construction a plurality of pivoted links, springs for supporting the said links, a clamping-plate for securing the links in their adjusted position, and means for operating the clamping-plate.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ALEXANDER LION.
MAURICE EDWARD MOSELY.
ALBERT HOWELL SPROULE.

Witnesses:
FRED WALSH,
PERCY NEWELL.