June 4, 1929. A. L. JENNER ET AL 1,715,556

APPARATUS FOR MARKING GARMENTS FOR LAUNDRY AND LIKE PURPOSES

Filed March 21, 1928

Fig. 1.

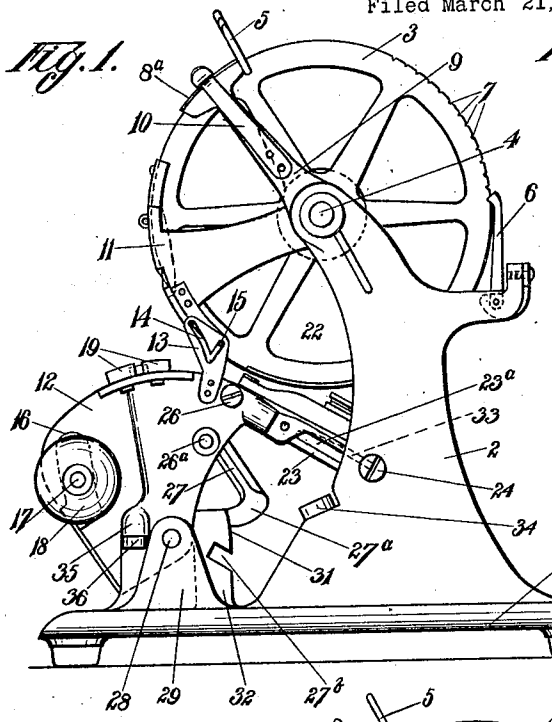
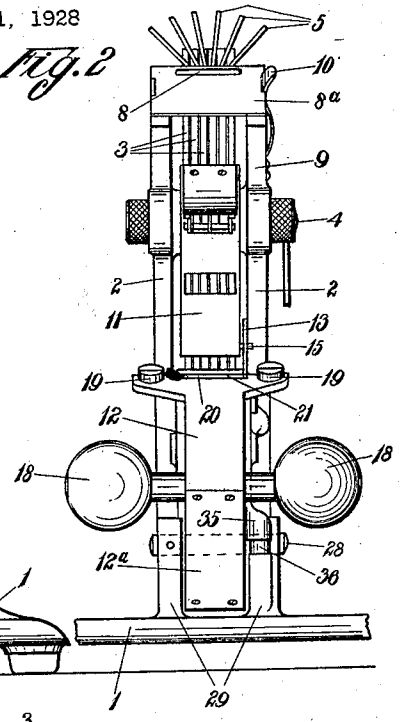


Fig. 2.



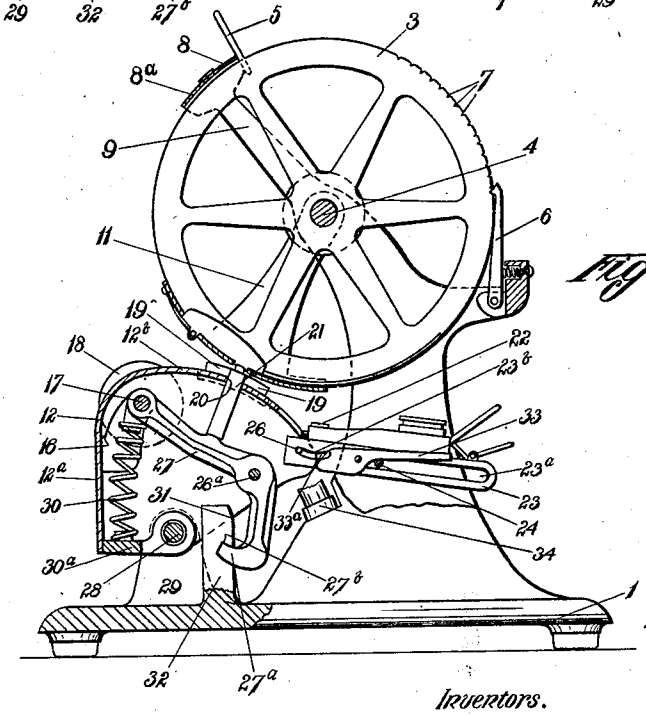


Fig. 3.

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR MARKING GARMENTS FOR LAUNDRY AND LIKE PURPOSES.

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This invention relates to apparatus for marking garments in laundries, dye works and for other conditions where it is desirable to affix some mark to garments and like articles for the purpose of keeping a proper record of goods received and delivered, and for analogous purposes. The present invention concerns apparatus, for the purposes aforesaid, which is already known and a description of which will now be given.

A frame which supports upon a common axis a number of rotatable discs carrying on their peripheries letters, numerals and signs for marking articles, carries on the front face an apertured plate through which are visible markings on the discs, the visible markings corresponding with those selected for marking an article. The discs are rotated to bring the required markings into register with the aperture in the said plate, at the same time corresponding printing type members being brought opposite the operative printing plane which receives the articles to be printed. A swinging hand operated frame beneath the discs when operated moves an inking pad momentarily into contact with the selected type and subsequently brings the article to be marked immediately beneath the type, spring means bringing a striking member sharply into contact with the material so as to force it momentarily into contact with the type.

The present improved apparatus embodies mechanism obtaining the same result, but the present invention is broadly characterized in that the said swinging frame carries the said spring means and a fulcrumed arm movable with and relative to said frame partly under the influence of said spring means, the initial movement of said frame in one direction moving successively the inking pad and the article to be marked into engagement with the type, said arm after a given degree of movement of the said frame being operated upon by the said spring means to effect the engagement of the article to be marked with the selected type.

In order that the present improvements can be clearly understood and readily carried into effect a sheet of drawings is appended hereto illustrating an embodiment of the present invention, and wherein:—

Fig. 1 is a side elevation showing the apparatus in the normal or inoperative position.

Fig. 2 is a front elevation, and

Fig. 3 is a part sectional side elevation showing the apparatus when marking an article.

Referring to the drawings a base 1 supports a pair of upright-side frames 2 between which are supported six marking discs 3 rotatable selectively about a shaft 4 disposed across the two frames 2. The peripheries of the discs 3 carry the type for marking the articles arranged around the lower edges of the discs, for instance for a distance containing about 120 degrees on each disc. Each disc carries an operating handle 5 for carrying the discs by hand to change the type, and a spring pressed detent 6 engaging the teeth 7 in the discs, retains the disc in selected position. The upper front portions of the discs 3 have their peripheries inscribed with markings corresponding with the type on the lower parts of the discs, the arrangement being that the type which are actually positioned to mark an article are ascertainable by corresponding inscriptions on the upper front parts of the discs being visible through an opening 8 in the plate 8^a extending across the free ends of a pair of arms 9 forming the upper parts of the frame members 2. A spring finger 10 normally retains the plate 8 in position, but enables the plate to be swung away from the normal position to enable access to be had to the discs 3.

11 is a shield the purpose of which is to prevent the material being marked, from being soiled, by contact with undesired parts of the discs 3. This shield moves about the shaft 4 and in unison with an oscillating frame 12 by reason of a slotted bracket 13 having engaged in a slot 14 a lateral pin 15 carried by the lower ends of the shield 11.

The oscillating frame 12 has a configuration substantially in the form of a segment of a hollow cylinder its front radial part being closed by a wall 12^a, its two side walls having a pair of aligned slots 16 which receive the ends of a transverse rod 17 having at its ends operating handles 18. The upper wall 12^b of the oscillating frame 12 carries a pair of rubber or other suitable pads 19 between which is a slot 20. Across these two pads are placed the articles to be marked, the arrangement being that when the oscillating frame 12 is swung forward from the position shown in Fig. 1 to the position shown in Fig. 2 a plunger member 21 accommodated in the frame 12 is moved sharply relative to the frame 12 in a substantially radial outward direction

through the slot 20 and brings the article to be marked, momentarily into contact with the selected type on the discs 3.

The present invention contemplates effecting the foregoing operation in a simple and efficient manner and moving an inking pad into engagement with the selected type in advance of the movement of the plunger member 21. The inking pad is indicated by the reference numeral 22 and is carried by a pair of arms 23 which are adapted to swing about the slide along a fixed transverse rod 24 upon operation of the frame 12. For this purpose the arms 23 are provided with longitudinal slots 23^a receiving the transverse rod 24. When the apparatus is in its normal inoperative position (see Fig. 1) the rear ends of the slots 23^a abut against the transverse rod 24, and the pad 22 as held in the raised position just clearing the peripheries of the discs 3, so that only a slight upward movement of the pad is required to bring it into contact with the type on the discs 3. A momentary contact of the inking pad 22 with the type is obtained during the initial stages of the forward swinging movement the operator imparts to the frame 12, for which purpose the front ends of the arms 23 are formed with arcuate or angular slots 23^b which receive a transverse rod 26 extending across the rear part of the frame 12, a rod 26^a constituting the fulcrum of a cranked arm 27 disposed between the side walls of the frame 12.

The frame 12 swings about a transverse shaft 28 disposed across a pair of fixed brackets 29 secured to the base 1. The front end of the cranked arm 27 carries the transverse rod 17 carrying the operating handles 18, and a coiled spring 30 is interposed between the base 30^a of the frame 12 and the front end of the cranked arm 27. Normally the spring 30 is compressed a sufficient extent to ensure the transverse rod 17 being adjacent to the lower ends of the slots 16, the rear end of the cranked arm 27 having an inturned head 27^a abutting against an arcuate bearing surface 31 on a fixed block 32, as shown in Fig. 1.

It will be appreciated that a slight initial rearward movement of the frame 12 will, by reason of the engagement of the rod 26 in the slots 23^b of the arms 23, press the pad 22 into engagement with the type on the discs 3, and to ensure the pad 22 correctly registering with the type, one of the arms 23 carries a finger 33 which normally, and during the initial movement of the frame 12 engages by means of its rear end the fixed transverse rod 24. When however the pad 22 has engaged the type and the rod 26 approaches the rear ends of the arcuate or angular slots 23^b, such rod 26 rides against the cam shaped front ends 33^a of the finger 33 and displaces the rear end of the finger from the transverse rod 24, thereby obtaining a trip action enabling the arms 23 to slide along the rod 24 and swing downwards with the rear part of the frame 12 to disengage the pad 22 from the type on the discs 3. The continued rearward swinging movement of the frame 12 will ultimately bring the inturned projection 27^a of the cranked arm 27 into register with a recess 27^b in the rear edge of the fixed block 32, with the result that the arm 27 will, under the influence of the compressed spring 30, suddenly swing upwards about the rod 26, and bring the plunger or striker 21 sharply into contact with the article of clothing disposed across the pads 19. It is now only necessary for the operator to depress the handles 18 so as to disengage the inturned projection 27^a from the recess 27^b and to swing the frame back to its normal initial position by a continued downward pressure on the handles 18, and to readjust such disc or discs 3 as may be necessary for numbering the next article.

To prevent undue shock, and to assist in the operation of the apparatus, the rear ends of the frame 12 are adapted to strike against rubber or other suitable buffers 34 on the side frames 2, lugs 35 on the frame 12 engaging with buffers 36 on the return movement.

We claim:—

1. Apparatus for marking garments for laundry and like purposes, comprising adjustable type-surfaced members, a swinging frame, an inking pad, means for pressing said inking pad on to said type surfaces during initial movement of said swinging frame in one direction, means for moving said inking pad out of operative position during continued movement of the swinging frame a spring-influenced fulcrumed arm movable with and relative to said swinging frame, a bearing surface on which rides a part of the said arm and a recess in said bearing surface into which such part of the said arm is adapted to pass to effect sudden swinging movement of said arm under the spring action for causing the article to be marked to engage with the inked type, after a degree of continued movement of the swinging frame in the said direction.

2. Apparatus for marking garments for laundry and like purposes, comprising a number of rotatably adjustable type-surfaced discs, a swinging frame adapted to have placed upon it the article to be marked an inking pad, means for pressing said inking pad onto the type surfaces of the discs during initial movement of said swinging frame in one direction, means for moving said inking pad out of operative position during continued movement of the swinging frame, a spring-influenced fulcrumed arm movable with and relative to said swinging frame, a striker member carried by said swinging frame for pressing the article to be marked

on to the inked type, and means for imparting swinging movement to the fulcrumed arm to operate the striker member, after a degree of continued movement of the swinging frame in the said direction.

3. Apparatus for marking garments for laundry and like purposes, comprising a number of rotatably adjustable type-surfaced discs, a swinging frame adapted to have placed upon it the article to be marked, an inking pad, means for pressing said inking pad on to the type surfaces of the discs during initial movement of the swinging frame in one direction, means for moving said inking pad out of operative position during continued movement of the swinging frame, a fulcrumed cranked arm carried by said swinging frame, a striker member carried by the swinging frame for pressing the article to be marked on to the inked type, a compression spring acting upon the fulcrumed arm on one side of its fulcrum, a bearing surface on which rides a part of the said arm on the other side of its fulcrum, a recess in said bearing surface into which the part of the arm engaged with said surface is adapted to pass to effect swinging movement of said fulcrumed arm for operating the striker member, after a degree of continued movement of the swinging frame, and resilient buffers to arrest the rearward and forward swinging movements of the swinging frame.

4. Apparatus for marking garments for laundry and like purposes, comprising adjustable type-surfaced members, a swinging frame, an arcuate or angular-slotted member carrying an inking pad, means on the swinging frame adapted to traverse the said arcuate or angular slot to thereby press the ink pad on to the type surfaces during initial movement of the swinging frame in one direction, and to abut an end of the said slot to cause the ink pad carrying member to move with the frame during its continued movement to non-operative position, a spring-influenced fulcrumed arm carried by the swinging frame, and means for operating said arm for causing the article to be marked to engage with the inked type after a degree of continued movement of the swinging frame in the said direction..

5. Apparatus for marking garments for laundry and like purposes, comprising adjustable type-surfaced members, a swinging frame, an arcuate or angular-slotted member carrying an inking pad, a slot-engaging device on the swinging frame adapted to traverse the said arcuate or angular slot to thereby press the inking pad on to the type surfaces during initial movement of the swinging frame, a relatively movable position-retaining finger on the ink-pad-carrying member adapted to be engaged and actuated by the slot-engaging device of the swinging frame subsequent to the engagement of the ink pad with the printing type, to permit the ink-pad-carrying member to move with the swinging frame during its continued movement, to non-operative position, and a spring-influenced fulcrumed arm carried by the swinging frame for causing the article to be marked to engage with the inked type after a degree of continued movement of the swinging frame in the said direction.

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