No. 630,149. Patented Aug. 1, 1899.

F. E. WELLINGTON.

DEVICE FOR PRINTING ON LEAD PENCILS.

(Application filed May 17, 1899.)

(No Model.) 2 Sheets—Sheet 1.

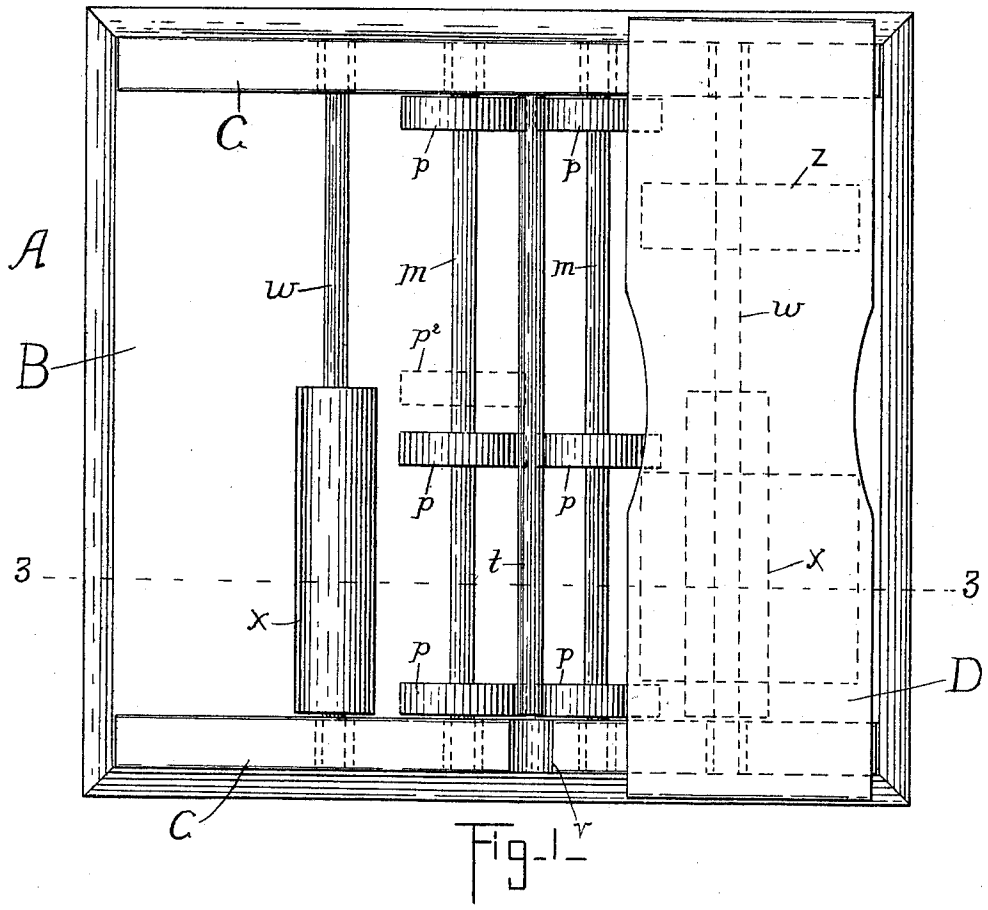


Fig. 1.

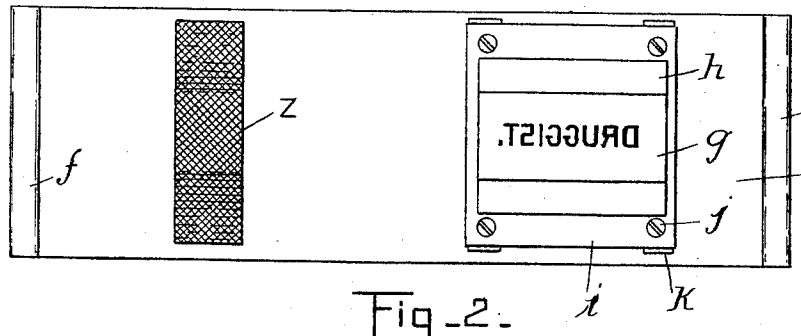


Fig. 2.

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DEVICE FOR PRINTING ON LEAD PENCILS.

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(No Model.) 2 Sheets—Sheet 2.

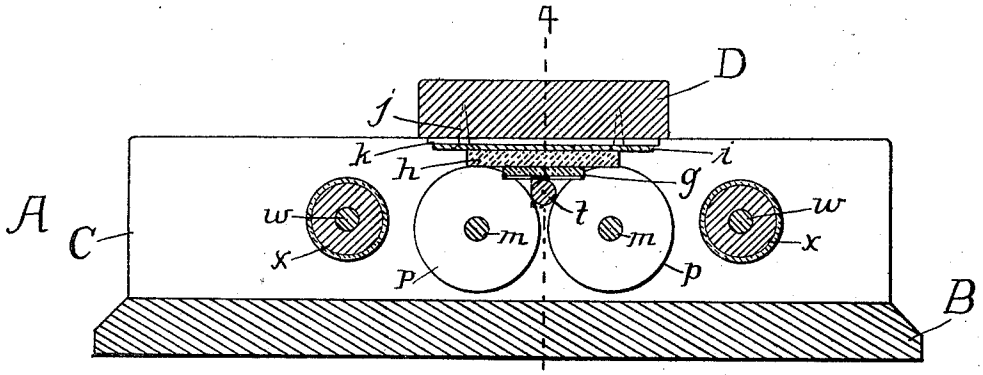


Fig-3-

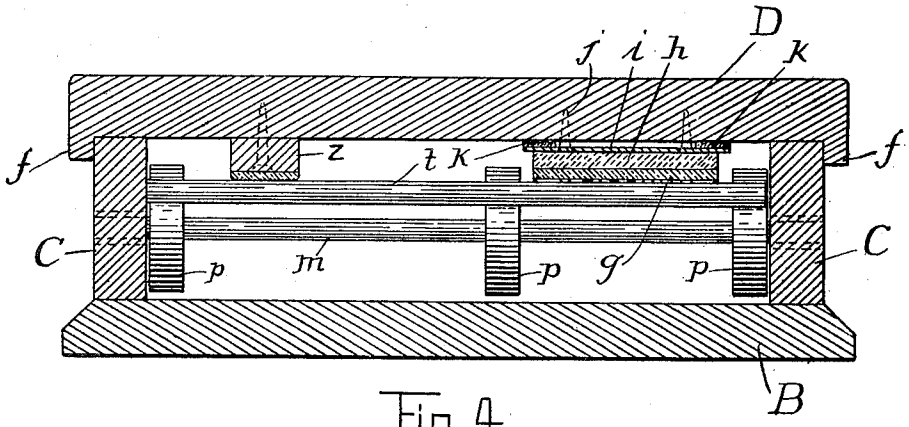


Fig-4-

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UNITED STATES PATENT OFFICE.

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DEVICE FOR PRINTING ON LEAD-PENCILS.

SPECIFICATION forming part of Letters Patent No. 630,149, dated August 1, 1899.

Application filed May 17, 1899. Serial No. 717,134. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. WELLINGTON, of Worcester, county of Worcester, State of Massachusetts, have made certain new and useful Improvements in Devices for Printing on Lead-Pencils, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top plan view of my improved pencil-printing device; Fig. 2, an under side plan view of the stamp-bearing slide; Fig. 3, a vertical section on line 3 3 in Fig. 1, and Fig. 4 a sectional view on line 4 4 in Fig. 3.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to a mechanism for imprinting lead-pencils, button-hooks, and any cylindrical or rounded surfaces with names, trade-marks, addresses, and other advertising matter. This is usually accomplished by indentations effected by a die and necessitates the use of expensive machinery and apparatus.

My invention has for its particular object the providing of a cheap simple effective device whereby an ink or stencil imprint may be imparted on such articles without the employment of skilled labor.

The nature and operation of the improvement will be readily understood by those conversant with such matters from the following explanation.

In the drawings, A represents the body of the device, which comprises a rectangular base B, on which are arranged two vertical parallel side pieces C, which form tracks or ways for a movable platen or type-bearing slide D. This slide D comprises a rectangular plate having at its ends pendent guide-flanges *f*, which overlap the ways C and direct said slide as it is moved horizontally, as hereinafter described.

For making the imprint I preferably employ a rubber stamp *g;* but type or any other printing material may be substituted, if desired. This stamp is mounted on a sponge-rubber base *h*, which is cemented or otherwise secured to a metal plate *i*, secured by adjusting-screws *j* to the inner face of the slide D. Between the metal plate and said slide strips of spring-rubber *k* are disposed. As will be understood, the purpose of this rubber base and the strips is to permit the stamp to yield, and when adjusting by means of the screws to act expansively, that all portions of the lettering may bear against the pencil or other article to be imprinted. Metallic springs may of course be substituted for the rubber without departing from the spirit of my invention.

In the side pieces or tracks C two parallel shafts *m m* are journaled and bear a series of supporting-wheels *p p*. These wheels are mounted on the shafts with a tight sliding fit and are adjustable longitudinally thereof, as indicated by dotted lines p^2 in Fig. 1. The wheels *p* on the respective shafts are arranged, preferably, in alinement, as shown, and the pencil *t* or other article to be imprinted rests loosely on said wheels, where it may be readily rotated. It will be understood that these wheels may be varied in size to compensate for the variation in diameter of the article to be printed, raising or lowering it, as the case may be, that the stamp *g* may be engaged properly therewith.

In one side plate or track C there is an opening *v* in alinement with the pencil to admit extra lengths.

Shafts *w* are journaled in the tracks C, respectively, at opposite sides of the supporting-wheels, and these shafts carry cylindrical inking-rolls *x* in position to be engaged by the face of the stamp or type *g* as the slide D is reciprocated on the tracks. One only of these inking-rolls may be employed.

On the under face of the slide D there is a feeder *z*. This feeder has a serrated face (see Fig. 2) in the same horizontal plane as the type and is rigid, or said feeder may consist of a block with a facing of sandpaper or emery, its purpose being, as the slide is advanced, to engage the pencil *t* and rotate it on

the bearing-wheels *p* while the stamp is passing over it. This feeder I deem an essential feature, as by its use blurring of the imprint is prevented, such imperfection being liable to occur when the pressure of the stamp itself is relied upon to rotate the pencil, particularly when said stamp is of rubber; but in many cases the feeder may, nevertheless, be dispensed with.

In use the pencil or other article being disposed on the bearing-rolls *p*, as shown in Fig. 1, the slide D is advanced. The stamp *g* is inked by the adjacent roll *x* as it passes over it. The feeder *z* engages the pencil and begins to rotate it. Then the stamp *g* engages the surface of said pencil, and being on the same slide as the feeder passes over its surface at the same rate of speed. It will be seen that by this means the rubber stamp may give to the pressure and conform to the curved surface of the pencil without slipping, and hence without blurring the imprint.

It will be understood also that a plurality of stamps may be arranged on the slide and the supporting-rollers arranged to clear them, so that as much of the surface of the pencil as desired may be printed.

Having thus described my invention, what I claim is—

1. A device for imprinting the surface of cylindrical bodies comprising the roller-bed for supporting said body; a slide fitted to be moved over said body and carrying a type-stamp for engaging therewith substantially as specified.

2. In a device of the character described a roller-bed adapted to support a cylindrical body in combination with a slide fitted to be moved tangentially of said body and a stamp on said slide in position to be engaged with and imprint said body.

3. In a device of the character described the bed and tracks in combination with the shafts and rollers arranged as specified; the removable slide working on said tracks; and the stamp-spring cushioned on said slide and carried thereby.

4. The tracks and devices for supporting a rotatable cylindrical body in combination with a slide; a stamp carried by said slide in line tangential of said body and a spring-cushioned support for said slide.

5. In a device of the character described a roller-support for the pencil in combination with the slide; the stamp carried thereby and arranged tangentially of said rollers; and the feeder carried by said slide substantially as and for the purpose specified.

6. In a device of the character described the slide in combination with the horizontal stamp, *g*, the rubber cushion secured to said stamp and a spring-tensioned plate secured to said cushion and adjustably secured to said slide substantially as and for the purpose specified.

7. In a device of the character described a bed upon which a cylindrical body may be rotated and supported in combination with a slide working on said bed; a stamp on said slide for imprinting said body; and a feeder on said slide adapted to engage said body and start it rotating before said stamp engages it and maintain said rotation until said stamp disengages from said body.

8. In a device of the character described the bed and tracks; the shafts bearing adjustable rollers; the shaft bearing the ink-roll; the slide; the spring-tensioned stamp on said slide; and the feeder on said slide all being combined and arranged to operate substantially as specified.

In testimony whereof I have hereunto subscribed my name in presence of two witnesses.

FRANK E. WELLINGTON.

Witnesses:
FREDK. J. BARNARD,
LOUIS CUTTING.