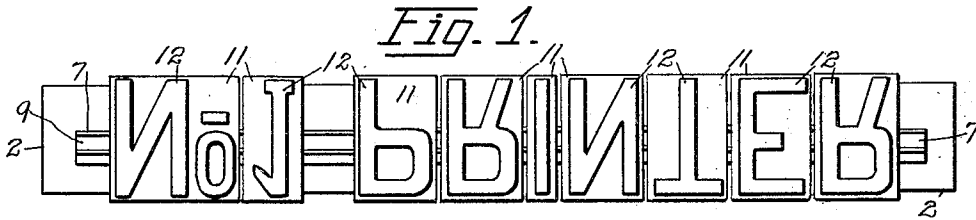
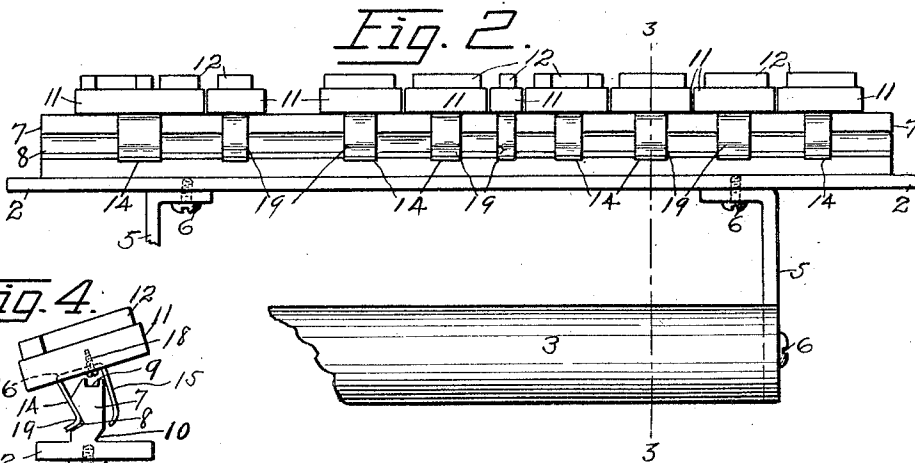
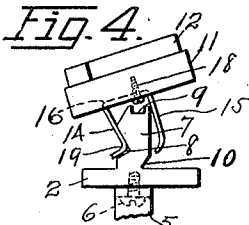
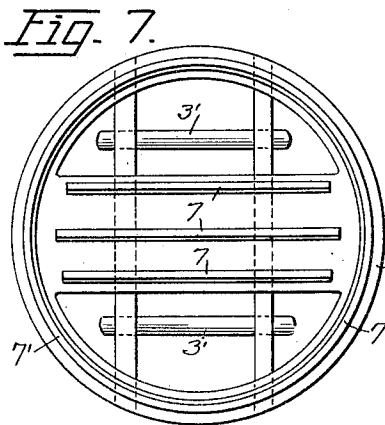
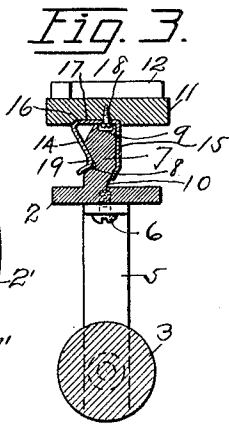
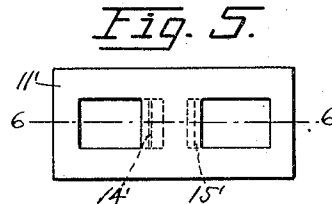
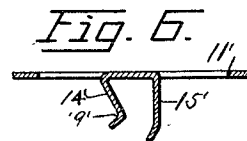
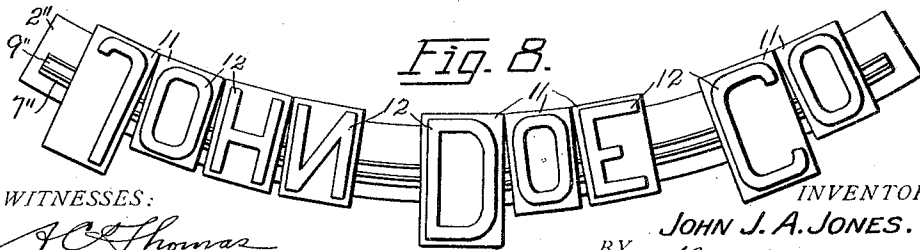


J. J. A. JONES.
PRINTING DEVICE.
APPLICATION FILED MAR. 27, 1914

1,102,589.

Patented July 7, 1914



WITNESSES:

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PRINTING DEVICE.

1,102,589.

Specification of Letters Patent.

Patented July 7, 1914.

Application filed March 27, 1914. Serial No. 827,584.

To all whom it may concern:

Be it known that I, JOHN J. A. JONES, a citizen of the United States, residing at Green Island, in the county of Albany and State of New York, have invented certain new and useful Improvements in Printing Devices, of which the following is a specification.

This invention relates to improvements in printing devices, similar to the well-known rubber-stamps, which consist generally of a holder and a series of detachable type-blocks.

The object of my invention is to provide a stamp of the class for hand use, wherein detachable type of any size may be mounted upon a common holder, without requiring any change or adjustment of the parts of the device.

A further object is to provide an improved holder for the detachable type consisting of a single rail or track, upon which the type-blocks rest, and are slidable, the said rail engaging the type-blocks substantially midway between their ends. And a further object is to provide a novel and simple fastening clip for each type-block, which embraces the rail of the holder, for holding the blocks in the printing position, the said clips comprising spring-arms and being so arranged as to allow the tilting or rocking of the individual blocks for printing on uneven surfaces.

The various features and parts of the invention will be understood from the detailed description which follows, and by reference to the accompanying drawing, in which—

Figure 1 is a bottom plan view of the stamp; showing the type applied ready for printing or stamping. Fig. 2 is a side elevation of the same. Fig. 3 is a vertical cross-section, taken on line 3—3 of Fig. 2; showing the type-blocks in level position for printing on a smooth or even surface. Fig. 4 is a detailed view; showing the type tilted, for removing the block from the rail, as well as for printing upon uneven or inclined surfaces. Figs. 5 and 6 are respectively a plan and a central longitudinal section; showing a modified form of the type-base. Fig. 7 is a bottom plan view; showing a modification of the type-holder. Fig. 8 is a bottom plan view; showing type of different size mounted on a curved rail.

Referring to Figs. 1, 2, 3 and 4 of the drawing, the holder consists of a body or base-plate 2, preferably made of metal, to which a handle 3 is connected by means of braces 5, the latter being secured to the plate and handle by screws 6. Upon the bottom side of the base plate 2 projects a type-supporting rail or bar 7, which may be integral with said plate, as shown, or may be detachable if so desired. The rail 7 is an elongated bar-like part disposed on edge, substantially at right angles to the plate 2, one side of said rail having an angular groove 8, and its top edge having a groove or gutter 9, while the opposite side is preferably under-cut, as at 10. In the first four figures of the drawing, the rail 7 is straight, but this part may be curved as shown in Fig. 8, or formed into a circle, as shown in Fig. 7. The rail 7 is preferably disposed in middle of the base plate 2.

The type-blocks consist of rectangular type-bases 11, which may be wood, metal or composition, upon which is mounted the rubber type, letters, or characters 12, which preferably consist, of sponge rubber or similar substance, for rendering each type resilient, so as to readily conform to rough surfaces, such as wood, metal or burlap, when subjected to the comparatively light pressure of one's hand. The type bases may be made any length or width to suit the styles or sizes of letters or characters 12, but the said bases should preferably be of uniform thickness or depth, so as to bring all of the types to a common level, as well as to permit types of different sizes to be set on the rail 7 at the same time (see Fig. 8).

Each type-base 11 is fitted with a spring clip, comprising a strip of steel or brass, which is folded for providing two spaced arms, as 14 and 15, which are arranged to straddle the free edge of the rail 7.

The closed ends 16 of the clips are seated in shallow grooves 17 formed in the top sides of the type-plates 11, to which they are secured by screws or brads 18. The grooves or recesses 17 prevent the clips from rotating on the screws. The arm 14 of each clip is provided with a V-shaped portion 19, which enters and conforms to the groove 8 of the rail 7, while the arm 15 of the clip is substantially straight and bears against the plain opposite side of the rail. The extreme

end of arm 15 is preferably bent inwardly to conform to the under-cut 10, for coöperating with the V 19 for holding the type-base 11 level, or at right angles to the rail 7, as shown in Fig. 3. To apply the type-blocks to the rail, each one is placed directly over the rail and then pressed downwardly until the block rests firmly upon the free edge of the rail (see Figs. 2 and 3). To remove the type block, the operator grasps the ends of the block and tilts it forwardly, which allows the V 19 to pivot or rock in the groove 8, and at the same time frees the arm 15, from the opposite side of the rail, as shown in Fig. 4. The clips are all preferably made the same length and shape, and may be attached to type-plates, as 11, of any width and length, without requiring any alternation or change. It will also be understood that the clips may be applied to curved or circular rails the same as to the straight rails.

The type-blocks may be set upon the rails 7 in close order, as shown in Figs. 1 and 2, or they may be spaced any distance apart, as shown in Fig. 8. The blocks may also be slid along the rail from one position to another without requiring their removal, or without danger of being detached from the rail, and a type on one portion of the rail may be detached and interchanged with a type of another portion, without requiring the detaching of all of the type. Large or small size type may be applied to any portion of the rails, without requiring any specially wrought attaching means, other than as herein shown and described.

Figs. 1 to 4 inclusive illustrate the arrangement of the straight-line stamp, and although but one line is shown, it is understood that any suitable number of lines may be employed by simply increasing the number of the rails 7.

Figs. 5 and 6 show a modified form of the type-base, as 11', which preferably consists of a plate of spring-metal, which is operated upon by punches or dies for cutting-out and forming-up integral clip-arms, as 14' and 15'. The rubber comprising the types may be cemented or otherwise secured to the plain side of the plates 11', in the usual way.

In Fig. 7 I have shown a modification of the device, in which the base plate 2' of the holder is circular, and a circular rail 7' is mounted upon said plate. Under this form of the device when the types are applied to the rail 7' the device is suitable for printing shipping addresses or other information upon the heads of barrels. In this figure is also shown a number of straight rails 7, which are disposed across the center of the circular plate 2', to which type may also be attached in the same manner as in Figs. 1, 2 and 3. The rails which support and bal-

ance the type, and the simple fastening clips 65 carried by the type-blocks, as herein shown and described, are the essentially novel and valuable features and parts of my invention. Under my improved construction and arrangement, as herein shown and described, 70 each type is mounted upon and secured to the rail by its own fastening clip, and owing to the flexibility of the arms 14 and 15 of the clips, each type is capable of tilting or rocking independently of every other type on the 75 rail, and will print equally well in slight depressions or on raised surfaces. And furthermore, by reason of the spongy character of the type and the fact that, all four edges of the type are free, the type may be com- 80 pressed or flexed to any reasonable extent, for printing upon rough or uneven surfaces, without interference by the adjacent type.

My printing device is extremely simple, and when properly constructed, and a suitable font of type is provided, any name, address, or other information, may be readily and quickly set up by unskilled persons, and plain and legible printing may be done with the same, with greater facility, than by the 90 use of the common stencils, or by the use of any other style or make of hand-stamp known to me. It is obvious that some changes or modifications may be made in the parts of the device, particularly with reference to the shape and arrangement of the rails which support the types, without departing from the spirit of the invention, as defined by the appended claims.

Having thus described my invention what I claim as new, and desire to secure by Letters Patent, is—

1. In a printing device, a base carrying a grooved rail, a type block, the middle portion of said type block engaging the free 105 edge of said rail and adapted to rock laterally thereon, and a spring clip secured midway between the ends of said type-block, said clip having spaced flexible arms straddling said rail, one of said arms bent V-shaped and engaging the grooves in said rail, for preventing the accidental detachment of the type-block when the latter is rocked during the printing operation.

2. The combination of a type-holder comprising a plate and a rail disposed edge-wise on said plate, said rail having a longitudinal groove, a type-block slidably resting on the free edge of said rail, and a fastening clip carried by said type-block, said clip 120 having spaced flexible arms adapted to straddle and grip said rail for normally holding said type-block parallel to said plate, said arms adapted to flex for allowing said type block to rock laterally for printing on uneven surfaces.

3. In a printing device, the combination with a holder-plate and a handle for said

plate, of a rail disposed edgewise along the
center of said plate, type-blocks pivotally
mounted on the free edge of said rail, the
ends of said type-blocks projecting laterally
5 beyond said rail, and a spring-clip for ad-
justably securing each type-block to said
rail, said clips secured to said type-blocks
midway between their ends and having

spaced flexible arms which grip said rail,
substantially as shown and described. 10

In testimony whereof I affix my signature
in presence of two witnesses.

JOHN J. A. JONES.

Witnesses:

HARRY DE WALLACE,
E. C. WRIGHT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."