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1,489,057

B. BORNSTEIN
MAGNETIC RAPID STAMPING DEVICE.

Filed June 18, 1923

Fig 1

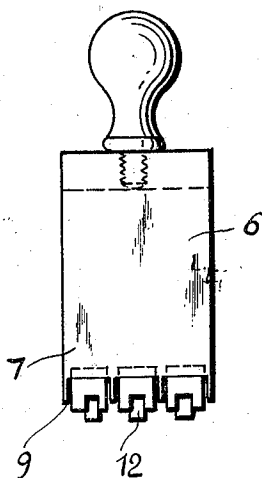


Fig 2

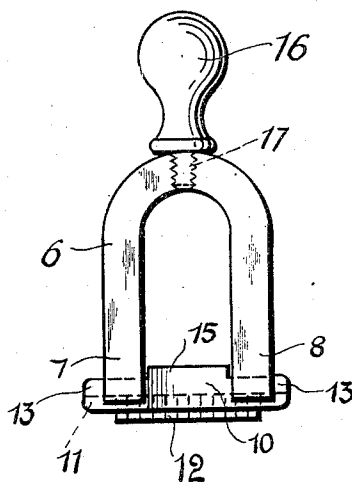


Fig 3

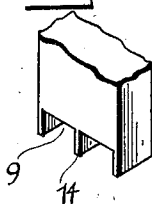


Fig 5

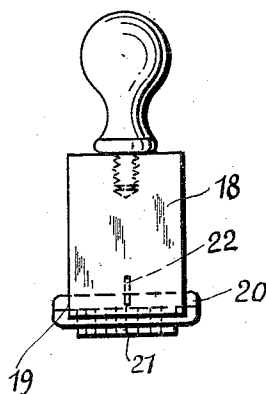
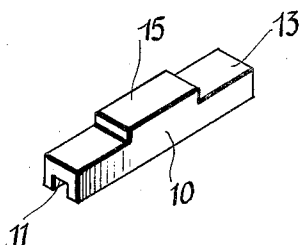


Fig 4



BENJAMIN BORNSTEIN

Inventor

By *his* Attorney *Julian Wittal*

UNITED STATES PATENT OFFICE.

BENJAMIN BORNSTEIN, OF SHAMOKIN, PENNSYLVANIA.

MAGNETIC RAPID STAMPING DEVICE.

Application filed June 18, 1923. Serial No. 646,146.

To all whom it may concern:

Be it known that I, BENJAMIN BORNSTEIN, a citizen of the United States, and resident of Shamokin, in the county of Northumberland and State of Pennsylvania, have invented certain new and useful Improvements in Magnetic Rapid Stamping Devices, of which the following is a specification.

This invention relates to stamping and marking devices and has for its main object to provide a stamping device in which the exchange of the types, signs, markings, etc., is extremely simple and rapid and new combinations of such markings may be made with great ease and facility.

Another object of my invention is to provide a device of the mentioned character which is adapted to receive a great variety of diverse signs and markings besides the regular types used in similar apparatus.

Still a further object of this invention is to provide a rapid stamping device where the types and markings are held in their places by magnetic force only.

Other objects of my invention will be apparent as the specification of the same proceeds.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the same for effecting the various results mentioned hereinbefore, reference is to be had to the following description and accompanying drawings.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiments of the same are illustrated in the accompanying drawings, in which:—

Fig. 1 is a side elevational view of one embodiment of my device,

Fig. 2 is a front elevational view of the same,

Figs. 3 and 4 are detail views of portions of this embodiment of my inventions, while

Fig. 5 is a side elevational view of another embodiment of this invention.

Referring now more closely to the drawings, the numeral 6 indicates the main body of my rapid magnetic stamping device, said body being in the form of a horseshoe and made of magnetized steel. The free ends 7 and 8 of said horseshoe magnet where the magnetic attraction most strongly reveals

itself, are slotted as at 9 (Figs. 1 and 3), several corresponding slots being provided in both magnetic ends or poles 7 and 8, being the north and south poles of said horseshoe magnet. My type holders consist of soft iron bars 10, slidably fitting into the slots 9 and adapted to be pushed therein simultaneously at both ends of my horseshoe magnet in the longitudinal direction of said magnet frame. The two magnet ends 7 and 8, or north and south, will immediately thereupon counter magnetize the soft iron type holder bar 10 and firmly hold the same in their slots by magnetic attraction. The type holder bar has a longitudinal slot 11 provided therein into which fit the types or markings proper 12 and may be retained therein by frictional or by any other suitable means. In order to provide easy and convenient means for exchanging the type holders in my horseshoe magnet, the ends 13 of said type holders are made to slightly project over and outside the end surfaces of the horseshoe magnet and any of the type holders may be gripped by said extensions between the forefinger and the thumb of the user and pushed in place or removed from slots 9. The side walls 14 of slots 9 will prevent the transversal movement of the type bars, while a central raised portion 15 fitting between the two sides of the horseshoe magnet will provide an adequate check against the longitudinal displacement of my type bars after they have been pushed in their proper positions.

The markings proper 12 may be made of wood, type metal, rubber or of any other suitable materials and may show types, signs, designs, straps or any other markings as the case may require and it is obvious that by their rapid exchange in the several slots 9 an easy and convenient means is provided for an endless variety and combination of such markings.

For a convenient handling and use of my stamping device, I may provide the same with a handle 16 of any of the usual designs which may be secured to the magnet frame 6 by the screw threaded means 17 or by any other method used in such cases.

In Fig. 5, I illustrate a simplified modification of my magnetic rapid stamping device, the magnetic frame in this case being a simple bar magnet. This method will give lighter and cheaper construction but the

magnetic forces will be greatly weakened as against the horseshoe form and the magnetic frame will also sooner lose its force of attraction and require a remagnetization. In this modification the magnetic bar 18 carries several slots 19 at its free end, into which fit the type bars 20 showing the exposed types and markings 21. A dowel pin 22 may be provided for each such type bar, fitting into a hole in the same and preventing its movement in any direction, while projecting ends similar to those shown at 13 in Fig. 2, may be used for exchanging the type bars in the manner described hereinbefore.

15 The advantages of my rapid stamping device may at once be seen when it is necessary to make a great many changes and markings either by resetting the types or by having separate frames for each combination of markings, as it is now done in many industries. I have been using the same in the shoe industry and have found it a great time saver in the marking of shoe boxes, both for the wholesale and retail trades. In the marking of shoe boxes many combinations of markings are often necessary as for instance boxes may be marked: red-one strap, blue-one strap, green one strap, same colors two or more straps, etc. With my stamping device, one magnetic frame is only necessary, while types and markings or the elements of them may be carried on separate

type bars easy to be placed in said frame or to be removed from the same.

Having thus described my invention, what I claim as new and want to protect by Letters Patent of the United States, is:—

1. In a stamping device in combination, a magnetic member, slots across the end surface of said member, type bars of magnetic metals bearing signs, types and markings at their exposed surfaces and removably fitting into said slots, means to keep said bars in said slots in predetermined positions, and means for removing said bars from said slots.

2. A stamping device, comprising a magnetic frame of a horseshoe form, colinear pairs of slots provided in the two end surfaces of said horseshoe frame, type bars of magnetic metals fitting into said pairs of slots and having their ends slightly projecting over the corresponding side surfaces of said magnetic frame, a raised central portion on said type bars fitting between the two arms of said horseshoe magnet and preventing the longitudinal movement of said bars in said slots, types and markings secured into the exposed surfaces of said type bars and a handle on said magnetic frame.

Signed at New York in the county of New York and State of New York this 15th day of June A. D. 1923.

BENJAMIN BORNSTEIN.