

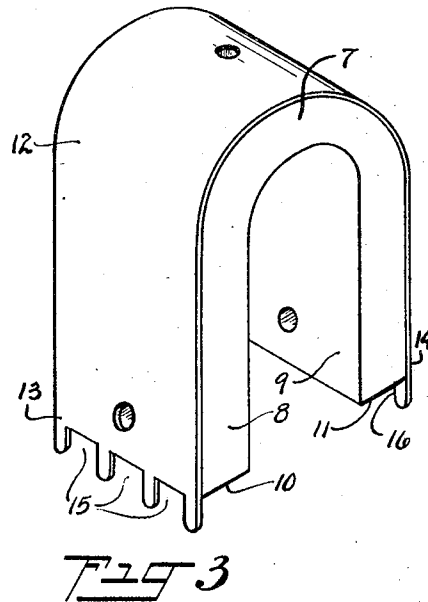
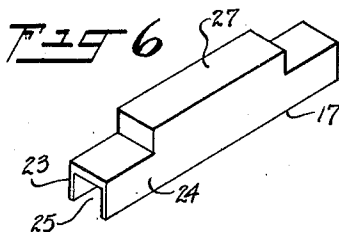
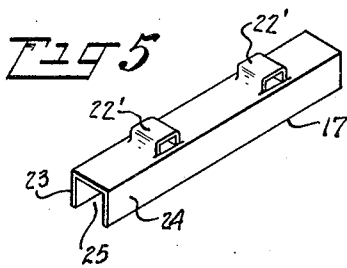
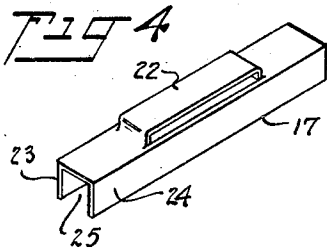
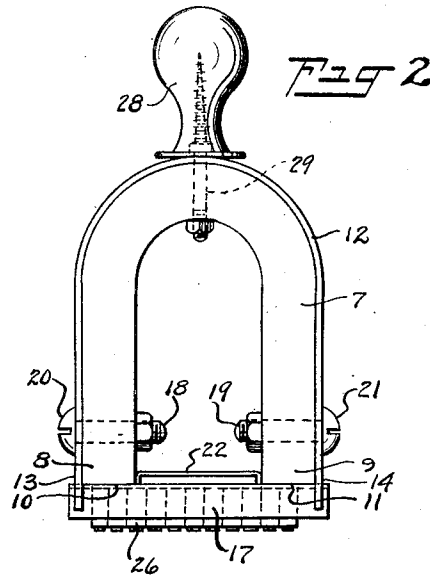
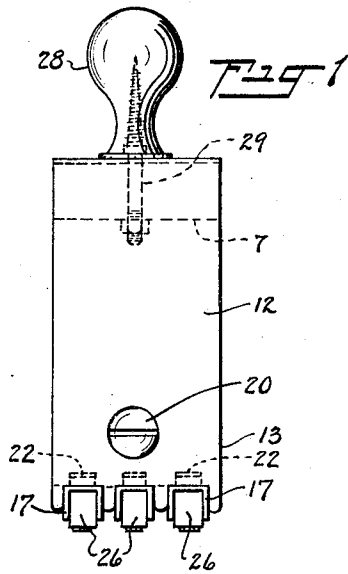
Dec. 9, 1924.

B. BORNSTEIN

1,518,727

COMBINATION MAGNETIC STAMP

Filed May 10, 1924



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UNITED STATES PATENT OFFICE.

BENJAMIN BORNSTEIN, OF SHAMOKIN, PENNSYLVANIA.

COMBINATION MAGNETIC STAMP.

Application filed May 10, 1924. Serial No. 712,235.

To all whom it may concern:

Be it known that I, BENJAMIN BORNSTEIN, a citizen of the United States, residing at Shamokin, in the county of Northumberland and State of Pennsylvania, have invented new and useful Improvements in Combination Magnetic Stamps, of which the following is a specification.

My invention relates to hand stamps employing a magnet as a means for securing the type; and its objects are readily to attach and detach the typing blanks; to utilize to the greatest advantage the lines of magnetic force; to insulate the parts securing the proper alignment of the type; to permit the direct application of the flat end of the magnet to the armature of the type holder; to employ an insulating protective shield for the magnet; and generally to simplify and render more effective the operation of the several parts.

In my Patent No. 1,489,057 for a magnetic stamping device I have illustrated and claimed a form of device in which the ends or poles of the magnet are shown grooved for the reception of the type holders, and my present invention is an improvement thereon in addition to providing additional and novel features never heretofore, so far as I am aware, incorporated in any stamping device. While the method of attachment of the type holders by means of grooves in the body of the magnet has been satisfactory and of great utility, I have found that it is more desirable as well as more economical to provide a means of aligning the type holders whereby the forming of such grooves may be dispensed with and the uninterrupted flat surface of the magnet poles brought in contact with the face of the armatures. To this end I have provided a shield for the magnet, the ends of which shield extend slightly beyond the ends of the magnet and which are provided with slots for holding and preserving the type holders in alignment. I have also provided a form of typeholder which may be stamped in quantities from sheet metal, and guides which serve to position the stamp on the work when in use. My invention further consists in various other features and improvements shown in the drawing and hereinafter described and claimed.

Attention is directed to the drawing in which similar numerals of designation refer to similar parts throughout the several

views:—Figure 1 is an end elevation of my improved device; Fig. 2 is a side elevation thereof; Fig. 3 is an enlarged view in perspective of the horse-shoe magnet and cover therefor; Fig. 4 is an enlarged view of my preferred form of one of the type holders, and Figs. 5 and 6 show modifications of the type holders.

In the drawing the magnet 7 is shown in the form of a horse-shoe having the north and south pole pieces 8 and 9, the extremities of which 10 and 11 are smooth and flat. Such magnet may be of any suitable metal capable of being magnetized but is preferably of steel and serves as a permanent magnet. The exterior surface of the magnet 7 is covered by the housing or cover 12, which is preferably of metal diamagnetic in character, and the ends of which 13 and 14 extend beyond the ends of the pole pieces 8 and 9 and are provided with the slots 15 and 16 for the reception of type holders 17.

The cover or shield 12 is secured to the magnet 7 by means of the bolts 18 and 19 extending through openings in both the shield and magnet. Preferably the heads 20 and 21 of said bolts 18 and 19 project outwardly beyond the ends of the type holders 17, when they are in normal position, for the purpose of abutting against a ruler or other object and thereby serving as a guide to position the stamp on the article to be stamped. Normally the type holders 17 are shaped to engage with the slots 15 and 16, but not so closely as to be held therein in the absence of magnetic attraction. The ends of said type holders project slightly beyond the slots 15 and 16 in order that they may readily be installed and removed by the thumb and fore finger when desired. The type holders may be of any paramagnetic material but are preferably formed or stamped from a single sheet of soft iron, a strap 22 fitting between the two pole pieces 8 and 9 and serving to prevent the type holders from being dislodged longitudinally. Each type holder is provided with flanges 23 and 24 forming a groove 25 in which fit tightly the bodies of the type 26 which may be of any suitable material and provided with any suitable characters or markings. In Figs. 5 and 6 I have shown modifications of the type holders, in one case the office of the single strap 22 being performed by the projections 22', 22', stamped out of the metal, and in the other case there being a solid abut-

ment 27 cast in the metal and serving the same purpose.

For convenience of manipulation, I provide my improved device with a handle 28 which is secured thereto by means of a screw bolt 29 which passes through openings in the magnet and shield and is embedded in said handle as shown.

The shield being preferably of diamagnetic material and covering the entire exterior surface of the horse-shoe magnet serves not only as a means of preserving the alignment of the type holders through the protecting edges of said shield, but also serves as a protective covering for said magnet against jars or other external injuries. Through the use of the slots 15 and 16 the holders 17 are kept from twisting out of position while the attractive force of the magnet 7 acting through the contact of the pole pieces 8 and 9 with the type holders serving as armatures holds the type firmly in position. In addition, I prefer to employ a projection such as the strap 22 in order to prevent the type holders from being dislodged longitudinally, although the device is operable without the same. The number of type holders used as is obvious may be varied at will, it being left to the discretion of the operator whether one or more lines of type are to be used.

In operating my improved invention, the type is first installed in the type holders which are thereupon grasped longitudinally between the thumb and fore finger and introduced into the slots 15 and 16, care being taken that the strap 22 is placed in the opening between the poles of the magnet and that the faces of said poles come in close contact with the top surface of the type holders. The work is then placed upon a table or other convenient object, and a ruler, block or other abutting surface is placed adjacent to the work in such manner that the head of one of the bolts 20 or 21 may abut against the same and the stamp guided into the position desired. If at any time other lines of type are required, they may be readily and quickly substituted.

While I have described my invention in its preferred form as above set forth, I do not desire to be limited to the particular construction shown, since, as is obvious, changes or modifications might be made

without departing from the spirit or purpose of my invention.

What I claim and desire to secure by Letters Patent is,—

1. In a stamping device, the combination of a magnet, a shield covering said magnet, a type holder of paramagnetic material held in contact with the poles of said magnet, and means connected with said shield for preventing lateral displacement of said type holder.

2. In a stamping device, the combination of a magnet, a paramagnetic type holder in contact therewith, a shield covering said magnet, the ends of said shield extending beyond the poles of said magnet and being provided with slots for the reception of said type holder.

3. In a stamping device, the combination of a horse shoe magnet, a paramagnetic type holder removably held in position on the device by said magnet in contact therewith, a shield covering said magnet, the ends of said shield extending beyond the poles of said magnet and being provided with slots for the reception of said type holder, the ends of said type holder slightly projecting beyond the covering, and means for preventing longitudinal displacement of the holder when in position on the device.

4. In a stamping device, the combination of a horseshoe magnet, coverings for the exterior surface of said magnet adjacent to the poles thereof, a type holder of paramagnetic material removably held in position on the device by the poles of said magnet, and means connected with said coverings for preventing lateral displacement of said type holder.

5. In a stamping device, the combination of a horseshoe magnet, diamagnetic coverings for the exterior surface of said magnet adjacent to the poles thereof, a plurality of typeholders of paramagnetic material removably held on the device in position by the poles of said magnet, and means connected with said coverings for preventing lateral displacement of said typeholders, and means for preventing longitudinal movement of the holders when in position on the device.

In testimony whereof I have hereunto set my hand this 9th day of May 1924.

BENJAMIN BORNSTEIN.