H. C. GAMMETER.

TYPE HOLDER.

APPLICATION FILED JUNE 13, 1908.

1,088,409. Patented Feb. 24, 1914.

FIG. 1

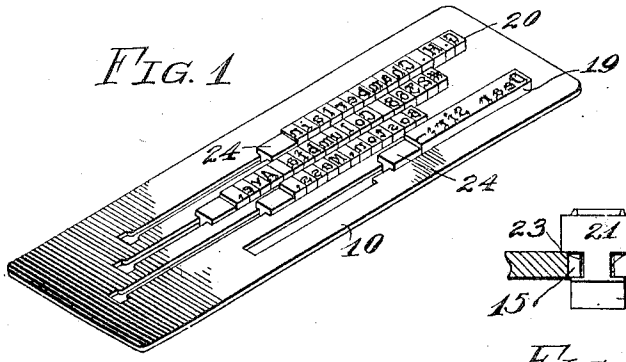


FIG. 5

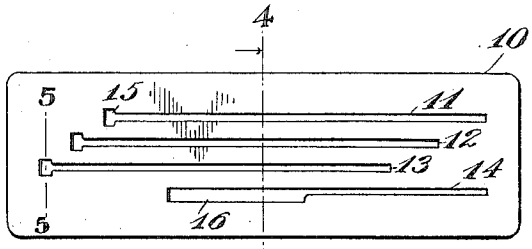


FIG. 2

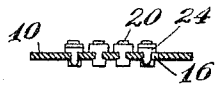


FIG. 4

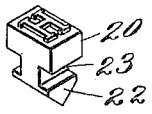


FIG. 3

FIG. 6

WITNESSES:

Forman B. West

Nathan F. Fretter.

INVENTOR,

Harry C. Gammeter

BY Bakewell, Towle & Hull

ATTYS.

UNITED STATES PATENT OFFICE.

HARRY C. GAMMETER, OF BRATENAHL, OHIO, ASSIGNOR TO THE AMERICAN MULTIGRAPH COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

TYPE-HOLDER.

1,088,409. Specification of Letters Patent. Patented Feb. 24, 1914.

Application filed June 13, 1908. Serial No. 438,310.

To all whom it may concern:

Be it known that I, HARRY C. GAMMETER, a citizen of the United States, residing at Bratenahl, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Type-Holders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The object of this invention is to provide a very simple and efficient means for holding individual type in composed lines suitable for printing.

My typeholder is well suited for use in an addressing machine, or other printing mechanism. It provides a plate having specially formed slots adapted to carry particularly formed type, the slots being formed with enlargements in such manner that the type may be easily assembled in place, but, when in place, are properly held. The plate shown is adapted to carry the name and address and a salutation, so that it may be used by one imprint to complete a letter, the body of which is mechanically printed, and thus give a form letter individual character. Individual plates carrying these addresses are adapted for convenient storage in small compass. They may be combined with a suitable printing mechanism which is formed to bear upon the plate between adjacent lines to insure a proper impression.

The invention is hereinafter more fully described and its essential characteristics set out in the claims.

The drawings clearly disclose the invention.

Figure 1 is a perspective view of the plate itself loaded with type constituting a complete address with salutation; Fig. 2 is a plan of the plate itself; Fig. 3 is a perspective view of the type employed; Fig. 4 is a cross section through the plate as indicated by the line 4—4 of Fig. 2, and showing the type and rubber plugs in place; Fig. 5 is an enlarged view through the plate at one of the enlargements of the slot, (as indicated by line 5—5 of Fig. 2), together with a type in position for insertion or removal; Fig. 6 is a sectional side elevation of a hand press in which my type carrying plates may be utilized. This form of press is shown simply by way of example and is to be taken as an illustration of any printing mechanism.

Referring to the parts by reference numerals, 10 represents a suitable plate of such dimensions that it may carry sufficient type for a complete address and salutation of usual type and spacing. For carrying such type, this plate is provided with four slots 11, 12, 13 and 14. The first slot is of sufficient length to carry an individual or corporate name, the second to carry a street address, the third, city and State, and the fourth, one of the usual salutations, as "Dear sir", "Dear madam", or "Gentlemen". Each of these slots is provided at its end with an enlargement. The various portions of the address are made up of individual type 20 and the enlargements 15 for the corresponding slots are of a dimension for individual type. The salutation 19 is preferably a logotype, and the enlargement 16 of this slot is of corresponding length.

Both the individual type and the logotype have grooves 23 in their opposite sides which the material of the plate adjacent to the slots is adapted to occupy, holding the type to the plate. The head of the type is wider (in a direction transverse of the slots) than the corresponding dimension of the enlargement 15 or 16, so that the type cannot pass entirely through such enlargement. The base 22 of the type, however, is narrower than the head and can pass through the enlargement. This is illustrated particularly in Fig. 5, wherein an individual type is shown at 20, the head 21 bridging the enlargement 15 and the base 22 being of such width as to easily pass through such enlargement. To assemble the type, therefore, it is only necessary to place them individually in the enlargement and shove them lengthwise toward the other end of the slot. The plate may conveniently be held in the hand during this operation, and being held at an inclination, the type, (if fitting the slots with

slight looseness, as shown in Fig. 5), will slide down the groove by gravity.

The plate is preferably of metal and the type preferably of metal, and there is preferably looseness in their engagement, so that it is desirable to provide means to prevent the type shifting longitudinally in the plate. This, I accomplish by rubber clips or plugs 24, which are sprung into the slots, after the line is assembled and advanced to the far end thereof.

It will be seen that my slotted plate provides a very simple holder for an address and salutation, which may be very easily and rapidly assembled thereon, properly held when assembled, and may be very conveniently removed when desired. The height of the type is small so that the plates with the addresses occupy a small space and may be easily stored. The slight looseness of the line is an advantage in giving the imprint a more exact appearance of typewriter printing.

In order to print from the plates containing the addresses, it is desirable to provide means bearing on the plates between the adjacent slots. This I prefer to accomplish by steel strips set on edge, which bear on the plate 10 between the bases of adjacent rows of type. The plate is also supported at its outer edge. By this means the desired pressure to cause the printing impression may be effected and any springing of the plate or any unevenness of impression is avoided.

Fig. 6 contains an illustration of a printing mechanism in which my plate may be used. In this figure, 30 represents a suitable base having a head 31 on which the plate 10 may be seated. This head is provided with overhanging strips or flanges 32 for holding the plate in place, and has a recess 33 which the type may occupy, and has steel strips 34 set on edge and adapted to engage the plate between the rows of type. The plate, together with the type, is shown in position. It is shoved into place whenever desired, lengthwise of the flanges and strips, and is as easily removable. Any means desired may be employed to prevent the plate shifting longitudinally, or friction may be availed of. The platen to coöperate with the type is shown as a soft head 36 on a pivoted arm 37, normally held elevated by a spring 38. A suitable knob 39 provides means by which the plate is forced down to cause the type to impress the paper between them. The type is shown as inked by an inking ribbon 40 mounted on a pair of spools 41 carried by the base passing over guide rollers 42 and across the type on the plate. It is to be understood that this hand operated printing device is simply illustrative of any means of making the impression. It is shown herein to explain clearly my means for holding the plate and supporting it between rows of type.

Having thus described my invention, I claim:

1. A printing form comprising a plate having parallel slots in it, the slots standing in echelon to overlap and underlap each other at opposite ends, an enlargement for the insertion and removal of type for each slot at the same end thereof and thus out of transverse alinement, and grooved individual type occupying the slots in lines, the ends of which abut the material of the plate at the other end of the slots.

2. The combination, with individual type grooved on its opposite sides, of a plate adapted to carry a single address and having extending through it three parallel slots as long as the usual address lines, the material of the plate adjacent to the slots being adapted to occupy the grooves and thereby hold rows of type, the second slot at one end overlapping the first slot and the third slot at the same end overlapping the second slot, whereby the end of each slot makes a properly positioned abutment for the end of the line, and enlargements at the other ends of the slots to enable the insertion of such type one at a time.

3. As a new article of manufacture, a stiff type-holding plate having four parallel slots through it, three being formed with enlargements adapted for the insertion of individual type, and the fourth with an enlargement adapted for the insertion of a logotype, the enlargements being out of vertical alinement and the ends of the slots forming abutments for the beginnings of lines.

4. The combination of a plate having parallel slots through it with enlargements at the ends of said slots, grooved individual type adapted to be passed into such enlargements and then shoved lengthwise of the slots, said slots being long enough to hold individual address lines, another slot which has a long enlargement, and a logotype for the salutation grooved for engagement in said last-mentioned slot and adapted for insertion through said last-mentioned enlargement.

5. The combination of a head having a recess, parallel strips projecting into the recess, a type holding plate having parallel slots with end enlargements, thereby adapted to be loaded with individual type grooved on opposite sides, and flanges for removably holding such plate on the head with the strips bearing against the plate between adjacent rows of type carried thereby and with the bases of the type occupying the recess between adjacent strips.

6. The combination, with a platen, of a coöperating member having a recess with par-

allel elongated projections therein, a type-holding plate having parallel slots thereby adapted to hold lines of individual type grooved on its opposite sides, and means for removably holding such plate on the member with the elongated projections bearing against the plate between adjacent rows of type carried thereby and with the bases of the type occupying the recess between such projections.

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

HARRY C. GAMMETER.

Witnesses:
W. DUNLAP,
ALBERT H. BATES.

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