H. C. GAMMETER.

TYPE HOLDER.

APPLICATION FILED MAY 24, 1909.

1,052,236. Patented Feb. 4, 1913.

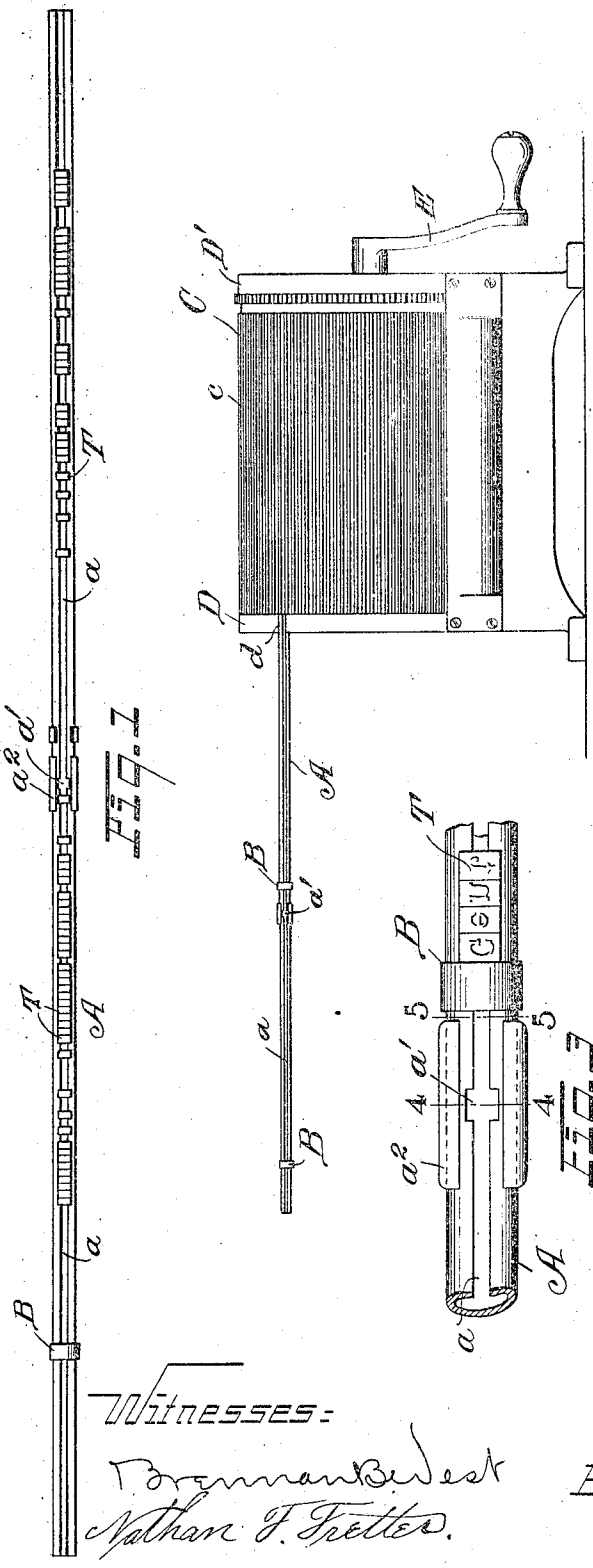

FIG. 7

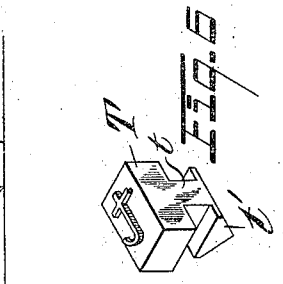

FIG. 6

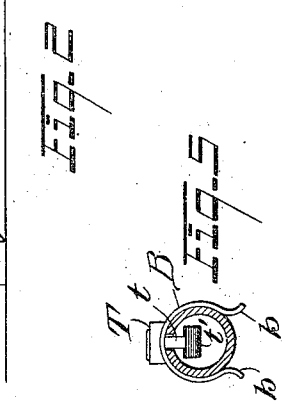

FIG. 2

FIG. 5

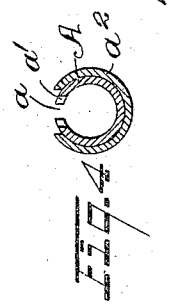

FIG. 4

FIG. 3

Witnesses:

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TYPE-HOLDER.

1,052,236. Specification of Letters Patent. Patented Feb. 4, 1913.

Application filed May 24, 1909. Serial No. 497,905.

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 device for holding type in a confined line, while allowing the removal of any individual type for the purpose of correction.

My typeholder is designed particularly to coöperate with grooved type, for example the type grooved on its opposite sides shown in my Patent No. 836,026. My holder may coöperate with a suitable type case or magazine and have type assembled in it either by hand or otherwise, and it may be employed in conjunction with a printing machine or form holder for the purpose of installing the various lines thereon or removing a line to enable one or more type to be corrected.

In its preferred form my type holder is embodied in a tube having a longitudinal slot, which form of holder is also my invention irrespective of the correcting enlargement.

In the drawings, Figure 1 is a view of my typeholder with various type therein; Fig. 2 is a front elevation of a rotary printing machine with my type holder coöperating therewith; Fig. 3 is an enlarged view of the holder adjacent to its central portion; Figs. 4 and 5 are transverse sections of the typeholder on the corresponding number of lines of Fig. 3; Fig. 6 is a perspective view of type substantially as shown in my prior patent referred to, and which may be used in the present holder.

My holder, in its preferred form, comprises a split tube A, the tube being substantially cylindrical, and the split being in the form of a longitudinal slot *a* through the wall of the tube. The width of this slot is slightly greater than the width of the shank *t* of the type T, which are adapted to be confined in the holder. Accordingly such type may be assembled by shoving them endwise into the slot, as illustrated in Figs. 1, 3 and 5.

To provide a suitable stop for preventing the type passing out of the holder, I have one or more spring clips B, which are preferably made of metal and are adapted to be sprung around the tube and embrace it for something more than half its circumference. When these clips extend across the slot *a*, as shown in Figs. 1, 3 and 5, they form effective stops, the friction of the clip on the tube holding it in place. To free the line of type, the clip may either be sprung off the holder altogether or rotated thereon until the opening between its ends *b* extends across the slot.

To allow the removal of any particular type in the line, I provide at a certain point in the holder an enlargement *a'*. Adjacent to the enlargement *a'*, the holder is preferably reinforced by a partial sleeve a^2 embracing the tube. The enlargement is wide enough so that the base *t'* of the type may pass through it, while the head of the type cannot, the head being longer than the base. Accordingly to remove any particular type, it is only necessary to shove the line lengthwise in the holder until the desired type stands at the enlargement *a'*, then it may be picked out of the line. By having the holder substantially twice the length of a line of type and having the enlargement at the center of the holder, it is possible to remove any type in such line by shifting it in one direction or the other.

Fig. 2 shows my typeholder coöperating with the printing machine. The printing machine shown consists of a rotary drum C mounted between frame members D and D' and adapted to be driven by a crank E. This drum has on its surface parallel overhanging rails *c* which provide between them undercut channels adapted to receive the type. Through one of the end plates, as D, is a suitable opening *d* adapted to receive the end of the holder A with the edges of the tube adjacent to the slot substantially alining with the adjacent edges of a pair of adjacent rails. In this position, it will be readily seen that a line of type may be shoved from the holder onto the drum, or vice versa.

My holder is not only useful in hand or machine assemblage of the type, but is also very effective in assisting in making corrections in matter previously set on the drum. Assuming that a page of type has been assembled on the drum and a proof

taken thereof, and it is desired to correct any particular letter, the holder is inserted in the opening and the drum is rotated to bring the desired line of type opposite the opening, and the line is then shoved from the drum into the holder until the particular type to be corrected comes opposite the opening *a'*. Then, this type is picked out by the fingers or tweezers, replaced by the proper type and the line again returned to the drum. In this manner, corrections may be made with great rapidity. A comparison of the length of the rails on the drum and my typeholder, as shown in Fig. 2, shows the typeholder to be twice the length of the rails, so that any line of the drum may be positibned on the holder to bring any type therein opposite the opening *a'*.

Having thus described my invention, what I claim is:

1. A portable typeholder comprising a tube having an open end and a slot parallel with the axis of the tube, and an enlargement of said slot located intermediately of the length of the tube, the tube extending on each side of the enlargement a sufficient distance to hold a series of words.

2. In a typeholder, the combination of a tube having a longitudinal slot, an enlargement in said slot, and a reinforce around the tube adjacent to the enlargement.

3. The combination with means for holding a plurality of lines of type in page form, and a coöperating typeholder of a length substantially twice the width of the page, and an opening adjacent to the center of said holder.

4. The combination with a printing machine having means for holding a plurality of lines of type, a coöperating typeholder having means for holding a line of substantially twice the length of the printing machine lines, and an opening adjacent to the center of said holder.

5. The combination with a means for holding a plurality of parallel lines of type, a holder for a single line of type adapted to coöperate with any of such plurality of lines, such single line holder having space for receiving a line substantially twice the length of the lines in such plurality, said single line holder having at substantially mid position means whereby any individual type may be removed.

6. A typeholder comprising a tube having a longitudinal slot, and a stop consisting of a spring clip embracing the tube.

7. A typeholder comprising a tube having a longitudinal slot, and a stop consisting of a spring clip embracing the tube, said clip being adapted to be rotated on the tube to bring the space between its ends across the slot to leave the slot unimpeded.

8. As a new article, a holder for a single row of short type grooved on their opposite sides, comprising a round tube split by a slot parallel with the axis of the tube, said slot leaving two parallel edges of material projecting toward each other and adapted to occupy the grooves of the line of type while the feet of the type are within the tube and out of contact therewith, said slot extending to the extreme end of the tube, whereby a row of type may be shoved by continuous movement onto or off of the holder.

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

HARRY C. GAMMETER.

Witnesses:
ALBERT H. BATES,
BRENNAN B. WEST.