A. B. DICK.

TYPE HOLDER.

APPLICATION FILED FEB. 9, 1912.

1,053,364. Patented Feb. 18, 1913.

Fig. 1.

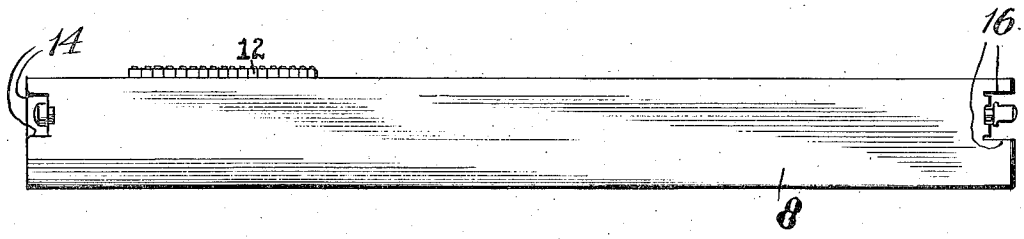


Fig. 2.

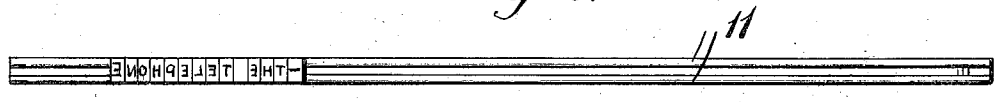


Fig. 3.

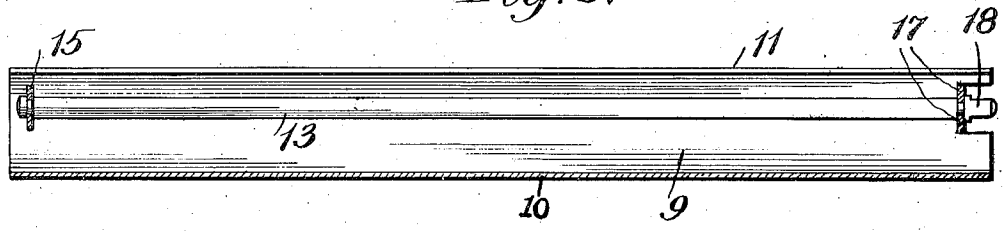


Fig. 4.

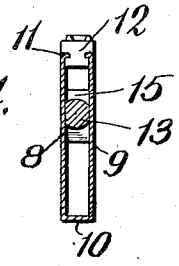


Fig. 5.

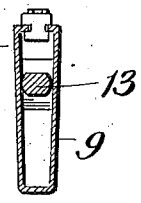


Fig. 6.

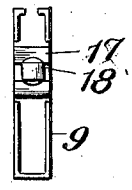
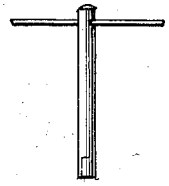


Fig. 7.



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UNITED STATES PATENT OFFICE.

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TYPE-HOLDER.

1,053,364. Specification of Letters Patent. Patented Feb. 18, 1913.

Application filed February 9, 1912. Serial No. 676,503.

To all whom it may concern:

Be it known that I, ALBERT B. DICK, a citizen of the United States, residing at Lake Forest, in the county of Lake and State of Illinois, have invented certain new and useful Improvements in Type-Holders, of which the following is a specification.

This invention relates to type-holders and is of particular utility in type-holders for use in printing equipments operated by unskilled persons in printing letters and circulars in imitation of typewritten work.

The object of the invention is to provide an improved form of type-holder which may be manufactured at low cost, with which certain of the operations incident to printing are greatly facilitated and which permits of ready manipulation by an unskilled person.

In accordance with the invention, a type-holder is provided adapted to support a single line of type, the type-holder being of such dimensions that the holder with the type thereon is type-high. By reason of this construction, a line of type may be set up upon a type-holder and then the holder with the type thereon may be inserted directly in a chase and used for printing. The holder is specially constructed to facilitate setting up the type thereon and holding the type during the printing operation. The holder is made from a single piece of sheet-metal which is bent to provide parallel sides and to form a type-receiving slot between the lateral edges. When the holder has been so formed, the metal is under tension tending to bring the lateral edges together so that they will grip type in the slot of the holder. Means are provided, however, for spreading the two sides of the holder so that type may be moved freely into the type-receiving slot when setting up a line of type and out of the slot when distributing the type.

The preferred embodiment of the invention is illustrated in the accompanying drawings in which—

Figure 1 is an elevation of the type-holder, Fig. 2 is a top view of the same, Fig. 3 is a central, longitudinal section of the holder, Figs. 4 and 5 are transverse sections, Fig. 6 is an end view and Fig. 7 is a view of the key employed with the holder.

Referring to these drawings, the holder consists of a piece of sheet-metal bent along lines extending lengthwise thereof so as to provide parallel sides 8 and 9 joined together by an integral bottom 10. The lateral edges of this piece of sheet-metal, that is the metal at the upper edges of the sides 8 and 9, are turned toward each other, as shown at 11. Between these inwardly turned flanges 11 is a slot in which the type 12 are received. These type have grooves on opposite sides thereof and the flanges 11 at opposite sides of the type-receiving slot are adapted to enter these grooves in the manner shown in Fig. 4. After the strip of metal of a type-bar has been bent to the form shown, it is accurately finished so that the holder with the line of type mounted therein, as shown in Fig. 4, will be type-high.

The type-holder is so formed that the metal thereof is under tension tending to move the sides 8 and 9 together and thus cause the portions 11 of the holder to grip the type 12. This condition of the parts is illustrated in Fig. 4, where type 12 are shown as held firmly by the walls 11 of the holder. Means are provided, however, whereby the holder may be made to support the type loosely so that the type may be moved freely in the slot when setting up and distributing. For this purpose a rod or cam 13 is employed extending lengthwise of the holder and between the sides 8 and 9, this rod being rotatable to cause the desired spreading of the sides 8 and 9. The rod is mounted at its ends for rotation in bearings formed from the metal of the strip constituting the type holder. At one end the metal of the side 8 is cut, as shown at 14 in Fig. 1, and the metal 15 (Fig. 3) thus cut is turned inwardly toward the opposite side of the type-holder. In this piece 15 of the metal of the type-holder is formed a bearing which receives the reduced end of the cam-bar 13. At the opposite end of the holder the metal of both sides 8 and 9 is cut, as shown at 16, and portions 17 of the metal so cut are turned inwardly and have a bearing formed therein which receives a reduced end of the cam-bar 13. This end 18 of the cam-bar is extended through the bearing and is squared so that a key, such as that shown in Fig. 7, may be applied to this end 18 of the cam-bar in order to turn the bar. The bar 13 is preferably of a cross-sectional shape approximating an oblong

with rounded corners as is shown in Figs. 4 and 5. It will be seen that when the bar is in the position in which it is shown in Fig. 4 the key shown in Fig. 7 may be applied to the squared end 18 of the bar and turned through ninety degrees, thereby turning rod 13 to the position in which it is shown in Fig. 5. When turning to this position, the bar 13 spreads the sides 8 and 9 of the type-holder somewhat so that while the type 12 will still be supported upon the flanges 11 of the type-holder, the type will be loosely held and may be moved freely in the direction of the length of the type-holder.

With this form of type-holder, the type may be readily set up upon the holder as the type can be moved freely into the slot in the holder. A line of type having been set up thus, these type may be locked firmly upon the type-holder by merely turning the rod 13. When so held the type-holder with the line of type therein may be handled as a unit and moved from the type-setting device to the printing device without danger of any of the type becoming displaced. This line of type may be used in a chase in the ordinary manner with other similar lines of type or with type of standard dimensions, because the type-holder with the line of type thereon is type-high. After the printing operation, the line of the type may be taken out, the type loosened by spreading the sides of the type-holder and the type distributed by moving them one by one out of the type-receiving slot in the holder. Preferably, the latter is mounted in a suitable composing stick while the operations of setting and distributing the type are being performed. The holder is formed to facilitate detachably mounting it in such a stick by having its ends open to receive latches whereby the holder will be firmly held upon the stick.

It will be noted that the holder is very simple in construction and consists largely of sheet-metal as a result of which the holder may be manufactured readily and at low cost.

Having described my invention, what I claim as new therein and desire to secure by Letters Patent of the United States is:

1. The combination of an integral type-holder for holding a line of type formed from a single piece of sheet-metal bent to provide parallel sides and to form a type-receiving slot between the lateral edges, and means located within the holder for moving the parallel sides of said integral type-holder apart to enlarge said slot, substantially as set forth.

2. The combination of a type-holder for holding a line of type with the type arranged in a straight line, said holder being formed from a single piece of sheet-metal by bending said piece to form a bottom extending lengthwise of the piece, two parallel sides and two edge-portions at the upper edges of the parallel sides bent toward each other and forming a type-receiving slot between them, said holder with the type therein being type-high, and means for moving the parallel sides of said integral type-holder away from each other to enlarge said slot, substantially as set forth.

3. A type-holder formed from a single piece of sheet metal bent to provide parallel sides and to form a type-receiving slot between the lateral edges, said piece of metal being under tension to cause the lateral edges to grip type in said slot and the holder with the type therein being type-high, and means for spreading the sides of the holder to enlarge said slot, substantially as set forth.

4. The combination of an integral type-holder for holding a line of type formed from a single piece of sheet metal bent to provide parallel sides and having the edges of the piece bent toward each other and forming a type-receiving slot between them, said piece of metal being under tension to cause said edges to grip type in said slot and the holder with the type therein being type-high, and means for moving said parallel sides away from each other to enlarge said slot, substantially as set forth.

5. The combination of an integral type-holder for holding a line of type formed from a single piece of sheet metal bent to provide parallel sides and to form a type-receiving slot between the lateral edges, and a cam between said sides movable to separate the sides and thus cause enlargement of said slot, substantially as set forth.

6. A type-holder formed from a single piece of sheet metal bent to provide parallel sides, the edges of said piece being bent toward each other and forming a type-receiving slot between them, a rod extending lengthwise of the holder between said sides and mounted upon the holder for rotation, and means operated by the rotation of said rod for separating said sides and thus causing enlargement of said slot, substantially as set forth.

7. A type-holder formed from a single piece of sheet metal bent to provide parallel sides and to form a type-receiving slot between the lateral edges, said piece of metal being under tension to cause the lateral edges to grip type in said slot, a rod extending lengthwise of the holder between the sides and mounted for rotation in bearings formed in the metal of said piece, and means actuated by the rotation of said rod for spreading the sides of the holder to enlarge said slot, one end of the rod being shaped for coaction with a key by which the rod is turned, substantially as set forth.

8. A type-holder formed from a single piece of sheet metal bent to provide parallel sides and to form a type-receiving slot between the lateral edges, said piece of metal being under tension to cause the lateral edges to grip type in said slot and the holder with the type therein being type-high, and a rotatable cam within the holder for separating the sides of the holder and thus enlarging said slot so that the type will be released, substantially as set forth.

This specification signed and witnessed this 5th day of February, 1912.

ALBERT B. DICK.

Witnesses:
I. McIntosh,
J. F. Collins.