E. T. HUDSPETH.

TYPE HOLDER.

APPLICATION FILED DEC. 20, 1917.

1,259,238. Patented Mar. 12, 1918.

Fig. 1.

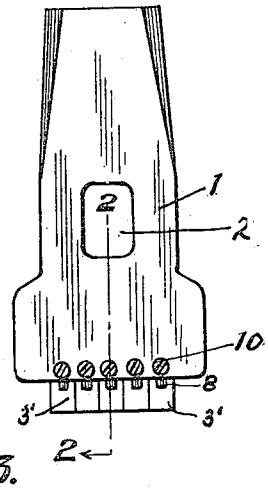



Fig. 2.

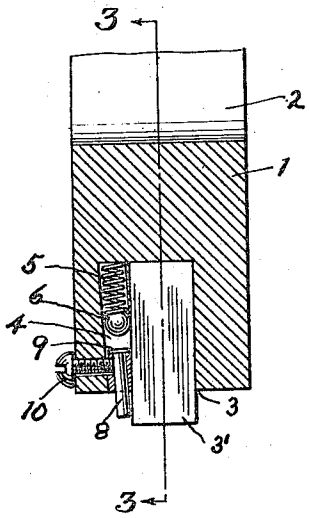



Fig. 3.

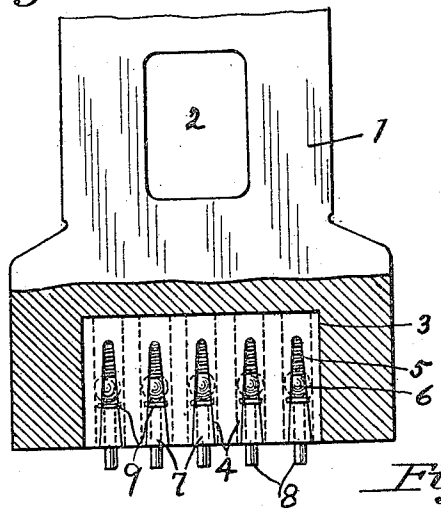



Fig. 5.

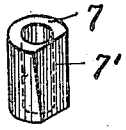



Fig. 6.

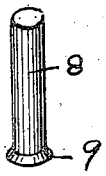
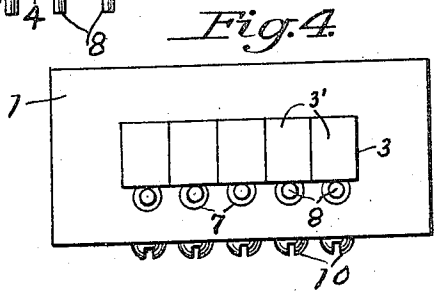



Fig. 4.




Witnesses
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Inventor
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# UNITED STATES PATENT OFFICE.

EDWARD T. HUDSPETH, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO PITTSBURGH STEEL STAMP COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

## TYPE-HOLDER.

1,259,238. Specification of Letters Patent. **Patented Mar. 12, 1918.**

Application filed December 20, 1917. Serial No. 208,053.

*To all whom it may concern:*

Be it known that I, EDWARD T. HUDSPETH, a citizen of the United States, and resident of Pittsburgh, (North Side,) in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Type-Holders; and I do hereby declare the following to be a full, clear, and exact description thereof.

This invention relates to type holders, and more particularly to steel type and the means for holding and securing the type in such holders.

The principal objects of my invention are to provide such a holder that will have a positive gripping engagement with one of the type members, so as to provide a holding or securing means, which will have little, or no, strain thereon, and a means which will permit of any one of the type to be removed and exchanged for another, as is often required in using such holders.

Heretofore, it has been the main practice to provide a clamping bar or wedge adapted to be inserted within the holder and to be engaged within a slot in the type shanks to hold such type in position, and when a change of type is required it is necessary to remove or release such wedge or bar from all of the type in order to exchange any one of the same. In the use of my improved holder the type shanks are smooth or square and have no slots therein, as the action of my improved securing means is against the squared shanks and needs no recess or slot, and further any one of the individual securing means may be depressed to release its corresponding type to allow for removal or exchange.

While I have shown and described one particular form of my invention, it will be readily understood that I do not wish to be limited to such particular form of construction, as it may be adapted to other devices than type holders, such as tool holders, etc., with slight modifications as to shape and form, all within the scope of the claims.

To enable others skilled in the art to which my invention appertains to construct and use my improved type holder, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is an elevation of the type holder;

Fig. 2 is a cross section on the line 2—2 Fig. 1, on an enlarged scale;

Fig. 3 is a section on the line 3—3 Fig. 2;

Fig. 4 is a bottom plan view; and

Figs. 5 and 6 are detail perspective views of the bushing and plunger, respectively, in an exaggerated form.

Like symbols of reference herein indicate like parts in each of the figures of the drawings.

As illustrated in the drawings, the numeral 1 designates the body of my type holder, which may be of any desired form, for insertion within a machine, or may be made as shown with an aperture 2 therein for the reception of a handle, so as to adapt it for use in hand or sledging operations. The body portion 1 has a rectangular recess 3 formed therein, of any desired size, adapted to receive a number of steel type 3′. At the one side of the recess 3 are formed a plurality of recesses 4, which extend inwardly on an angle, and preferably circular in cross section, and which have one side open to the recess 3 for an appreciable distance.

Mounted within the recesses 4 is a spring member 5 and a spherical member or ball 6. The upper or open ends of the recesses 4 are closed by bushing members 7, which have their side abutting recess 3 flattened as at 7′, and plunger members 8 having heads 9 thereon are adapted to extend upwardly through the bushings 7 and have their head portions 9 engaging the balls 6. The bushings 7 are held in place by means of the set screws 10 passing through the body 1 and engaging said bushings.

When the springs 5, balls 6, bushings 7 and plungers 8 have been assembled, the springs 5 will be compressed and therefore at a tension, and the balls 6 will be forced outwardly thereby so as to extend an appreciable distance through the open sides of the recesses 4 and into the recess 3. When the type members 3′ are inserted within the recess 3, the balls 6 will be in their path and will necessarily be engaged thereby and forced inwardly to slightly compress the springs 5. When the type members 3′ have been forced downwardly to their desired position within the recess 3, the force of the compression members 5 will cause the balls 6 to firmly grip or engage the sides of said

type, and thereby hold them securely in position, and any tendency of outward movement of the type members A will only cause a further gripping by the ball members, which is due to the form of the recess members 4.

The operation of my improved type holding device is as follows:

To insert the type members 3′ it is only necessary that they be pressed into the recess 3 to their lowermost position, and the sides of such type will then be engaged by the ball members 6 and be firmly held in position. To release the type members so as to allow of exchange or removal, the plunger members 8, which extend above the face of the holder, are engaged by the finger of the operator and pressed inwardly, thus forcing the ball members 6 inwardly from engagement with the type members 3′ and compressing the spring members 5. The desired type members 3′ may then be removed by lifting the same from within the recess 3. The recess 4 is drilled at an angle, so that the ball 6 wedges against the type, and the harder the type pull out the harder the ball wedges the type to grip the same.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A type holder comprising a body portion having a recess therein for the reception of type members, a plurality of spring pressed ball-shaped wedge members mounted in said holder and adapted to extend within said recess and engage one of the side faces of said type, and means for individually releasing said wedge members.

2. A type holder of the class described comprising a body portion having a recess therein adapted to receive type members, a plurality of ball-shaped wedge members mounted within apertures opening in the said recess, spring members mounted below said wedge members and adapted to normally force the same in an upward direction, said wedge members being adapted to extend within said recess to engage the side faces of said type, and means for forcing said wedge members inwardly and compressing said spring members to allow the removal or exchange of said type.

3. A type holder of the type described comprising a body portion having a recess therein adapted to receive a plurality of type, a plurality of ball-shaped wedge members mounted within apertures opening within said recess, spring members mounted in the rear of said wedge members adapted to normally force said members outwardly, said wedge members being adapted to extend within said recess an appreciable distance so as to engage the side faces of said type members, and plunger members mounted within said apertures and engaging said wedge members and adapted to be forced inwardly to release said wedge members and allow removal or exchange of said type.

4. A type holder of the class described comprising a body portion having a recess therein adapted to receive a plurality of type, and a plurality of other recesses entering said first-named recess and extending downwardly and outwardly on an angle from the side walls of said first-named recess, a ball-shaped wedge member mounted within each of said last-named apertures, spring members mounted in the rear of said wedge members adapted to normally force said members outwardly, said wedge members being adapted to extend within said recess an appreciable distance so as to engage the side faces of said type members, and plunger members mounted within said apertures and engaging said wedge members and adapted to be forced inwardly to release said wedge members and allow the removal or exchange of said type.

5. A type holder of the class described comprising a body portion having a recess therein for the reception of type members, a plurality of spring pressed ball-shaped wedge members mounted in said holder on an angle to the plane of the sides of said recess, said wedge members being adapted to extend within said recess and engage the side faces of said type, and plungers adapted to engage said wedge members to force the same inwardly to release said type to permit of removal or exchange.

6. A type holder comprising a body portion having a recess therein for the reception of type, a spring pressed ball-shaped wedge member mounted in said holder and adapted to extend within said recess and engaging the side faces of said type, and plunger means for releasing said wedge member to allow the removal of said type.

In testimony whereof, I, the said Edward T. Hudspeth, have hereunto set my hand.

EDWARD T. HUDSPETH.

Witnesses:
J. N. Cooke,
J. M. Geoghegan.

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