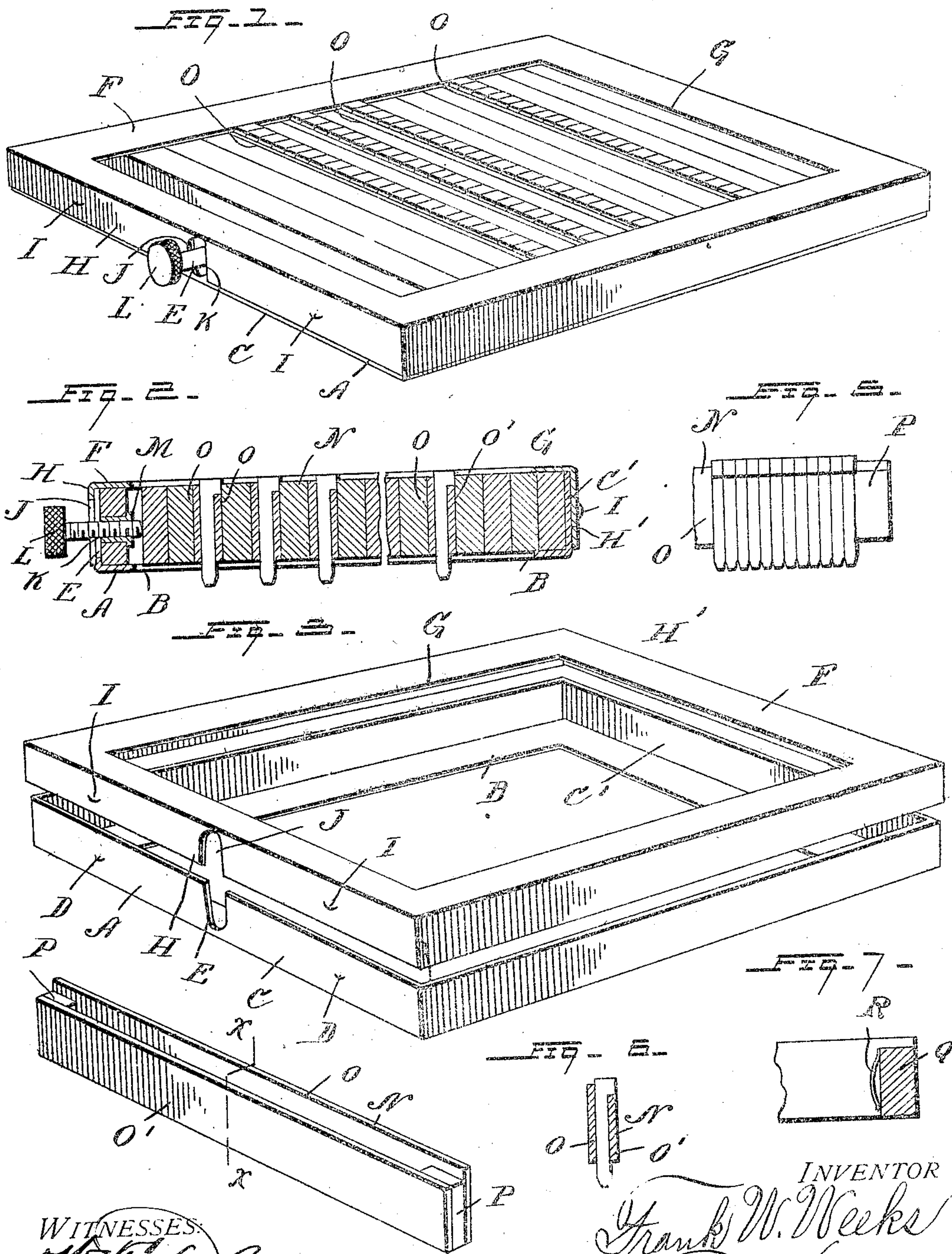


No. 827,485.

PATENTED JULY 31, 1906.

F. W. WEEKS.
LINE HOLDER AND TYPE CHASE.
APPLICATION FILED JULY 21, 1905.



WITNESSES:

W. F. Kyle. — 57 —
 Wm. O. Duckett

INVENTOR
Frank W. Weeks
BY Robert H. Young
Attorney

UNITED STATES PATENT OFFICE.

FRANK W. WEEKS, OF SAN ANTONIO, TEXAS.

LINE-HOLDER AND TYPE-CHASE.

No 827,485.

Specification of Letters Patent.

Patented July 31, 1906.

Application filed July 21, 1905. Serial No. 270,695.

To all whom it may concern:

Be it known that I, FRANK W. WEEKS, a citizen of the United States, residing at San Antonio, in the county of Bexar and State of Texas, have invented a new and useful Improvement in Line-Holders and Type-Chases, of which the following is a specification.

My invention relates to improvements in a combined line-holder and type-chase, and is particularly designed to be used in connection with a type provided upon one end with a printing character and upon its opposite end with a corresponding proof character.

The object of my invention is to provide means for rapidly and easily setting type by an unskilled person and in which each line is separately set and the type held therein against accidental displacement by dropping or inverting the same before it has been placed within the chase.

Another object of my invention is to provide a chase of this character in which the type are securely held within the line-holders after the same have been placed therein.

In the accompanying drawings, Figure 1 is a perspective view of my improved chase, showing several line-holders therein containing type and the remainder of the chase filled with furniture. Fig. 2 is a longitudinal sectional view of the chase, as shown in Fig. 1. Fig. 3 is a perspective view of my improved chase, showing the two sections of which the same is composed separated. Fig. 4 is a perspective view of my improved line-holder. Fig. 5 is a longitudinal sectional view of the line-holder, showing the type held therein. Fig. 6 is a transverse sectional view of the line-holder, taken on line *x x* of Fig. 4; and Fig. 7 is a longitudinal sectional view of the modified form of my improved line-holder.

Referring now to the drawings, A represents one of the sections of which my improved chase is composed, the same being stamped from sheet metal or the like. The said section, as shown, is preferably of a rectangular form and is provided at its lower edge with an inwardly-extending flange B, surrounding the same. The ends C and C' of said section adjacent the sides are provided with nibs D, the purpose of which will be hereinafter more fully described. The said end C at the center is provided with an elongated recess E, through which the set-screw passes, as hereinafter described. The flange B is adapted to support the line-holders adjacent their ends.

My improved chase, as clearly shown, is composed of two sections, the section F being of a form and shape precisely like the section A, only of a diameter slightly greater than said section A, so that the same will telescope the said section. The inwardly-extending flange G of said section is adapted to rest upon the ends of the line-holders to hold the same within the chase. The ends H and H' of the said section F are provided in their inner faces with the depressed recesses I, which are adapted to receive the nibs D of the section A when the two sections are telescoped.

The sections, as before described, being of such a size that they snugly telescope each other, the nibs D will spring within the depressions I and firmly lock the two sections together. The end H of the section F at a point at the center is provided with a recess or slot J, which is adapted to register with the recesses E of the section A when the two sections are in their telescoped relation, thus forming an opening K, through which the set-screw L passes, the said set-screw serving as means for firmly clamping the line-holders within the chase and also for aiding in holding the type within the line-holders. As is clearly shown in the drawings, the said set-screw L is of a size less than the opening K, so that the same is free to pass therethrough. The inner end of the set-screw passes through a thimble M, which is preferably carried by a piece of the ordinary furniture used in chases of this character and forming a bearing-surface by means of which the screw is brought to bear upon the line-holders or the furniture, whichever is adjacent the said screw. The line-holders N, as shown, are formed of a length to extend transversely of the chase; but, if desired, they may be of a length to extend longitudinally thereof, the said line-holders resting upon the flange B. The line-holder is constructed of two elongated sheets of metal O and O', spaced apart by a block P; of sponge-rubber or other elastic material, and are cemented or otherwise secured thereto and serve as means for holding the plates together at the specified distance apart, and when the line-holder is filled with type the elasticity of the spring clamps the type firmly within the holder. Should the type only partially fill the holder, the remainder is filled up with quads, and with the use of said elastic blocks a saving in time is accomplished by not being compelled to find

the exact thickness of quads to fill the space, as the slight difference between the space and the quad is equalized by the said elastic blocks and at the same time firmly holding the type within the holder.

In the modification in Fig. 7 I have shown in place of the sponge-rubber blocks solid blocks Q, made of either metal or wood and secured to the sheet-metal plates by screws or in any other manner desired. Secured to the inner edge of the said blocks are the leaf-springs R, which have an inward tension, performing precisely the same function as the rubber blocks in my preferred form of line-holders. The rear side of the line-holder, as clearly shown, is made slightly higher than the front wall, and this facilitates the ready insertion of the type, as the same can be placed against the extended portion and moved downwardly and guided between the two plates. The type used in my improved line-holder is that covered by United States Patent No. 744,836, dated November 24, 1903, and, briefly stated, the said type is composed of any material having at one end the printing character and at the opposite end the proof character and provided with a shoulder adapted to rest upon the front wall of the type-holder, and thus the type are set with the proof end upward in the regular reading order, and the reversing of the holder arranges the type in the printing order.

The line-holders are set with type, as heretofore described, and the same placed within the section A of the chase with their ends resting upon the flange B thereof. The desired number being placed therein, the remainder of the chase is filled with furniture, leaving a space sufficient to receive the furniture carrying the thimble. The said thimble, as clearly understood, registers with the opening E of the chase. The section F is then telescoped upon the section A, the nibs D entering the depressions I and locking the two sections together. The set-screw is then passed through the opening E and screwed within the thimble, the inner end bearing against the furniture or the line-holder, whichever is adjacent thereto.

By the construction herein shown and described it will be seen that the type is held within the line-holders by the compression of the rubber blocks against the ends of the line-holders, and it will also be seen that after the series of line-holders are placed within the chase and the set-screw tightened the rubber blocks compress sufficiently in thickness to let the sides of the line-holder press strongly on the sides of the type-bodies, and thus firmly hold them in that direction, this being sufficient, if desired, to hold the type in their position during printing.

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

1. In combination, a line-holder and chase comprising a frame adapted to independently support a plurality of separate line-holders, and a removable frame telescoping the first-mentioned frame and holding the line-holders therein.

2. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge, line-holders supported by said flange within the frame, either longitudinally or transversely of the frame, and a removable frame for holding said line-holders within the first-mentioned frame.

3. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge, line-holders supported by the flange within the frame, and a removable frame for holding said line-holders within the first-mentioned frame.

4. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge, line-holders independently supported by the flange within the said frame, and a telescoping frame for holding said line-holders within the first-mentioned frame.

5. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge thereof, line-holders independently supported by the flange, a set-screw adapted to be inserted from one end for clamping the line-holders within the frame, and a frame telescoping said frame and having inwardly-extending flanges adapted to pass over the line-holders for holding the same therein.

6. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge, line-holders independently supported by the flange within the frame and a removable telescoping frame, and means for holding the frames together.

7. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge, line-holders independently supported by the flange within the frame, a piece of furniture within the frame and having a screw-threaded thimble, a screw within said thimble and extending through said frame, a removable telescoping frame for holding said line-holders within the frame, and means for holding the said frames in their telescoped relation.

8. In combination, a line-holder and chase, comprising a frame having an inwardly-extending flange carried by the lower edge, line-holders independently supported by the flange within the frame, a piece of furniture within the frame and having a thimble, a thumb-screw within the thimble and extending out through the frame, nibs carried by the ends of said frame and a removable tele-

scoping frame having depressions receiving the nibs when the frames are in their telescoped relation.

- 5 9. A line-holder, comprising two longitudinally-arranged plates having blocks between their ends of a thickness equal to that of the width of the type, and springs carried by the inner ends of the blocks for frictionally holding the type within the holder.
- 10 10. A line-holder, comprising two longitudinally-arranged plates having blocks between their ends of a thickness equal to that of the width of the type, and leaf-springs carried by the inner ends of the blocks for frictionally holding the type within the holder.
- 15

11. A line-holder, comprising two longitudinally-arranged plates, one of said plates extending above the other and forming a guide in placing the type within the holder, blocks between their ends, and springs carried by said blocks for frictionally holding the type within the holder.

In testimony whereof I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

FRANK W. WEEKS.

Witnesses:

LAURA E. WEEKS.

J. BOLTON.