L. A. HOSKINS.

LOCKING MEANS FOR PRINTING TYPES.

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1,225,712. Patented May 8, 1917.

Fig. 1

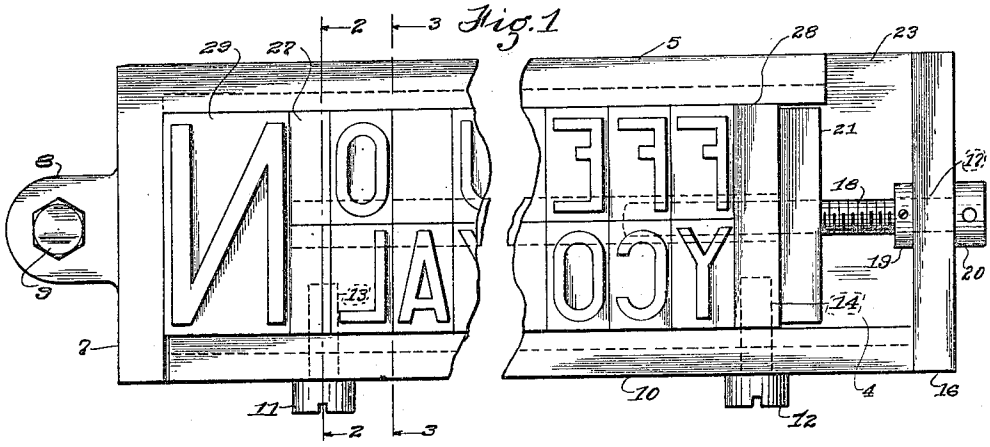


Fig. 2.

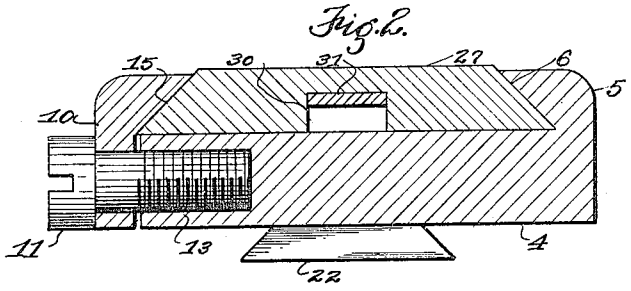


Fig. 4.



Fig. 5.

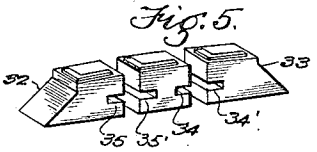
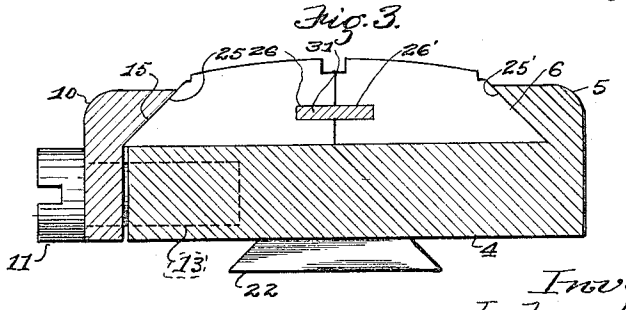


Fig. 3.



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UNITED STATES PATENT OFFICE.

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LOCKING MEANS FOR PRINTING-TYPES.

1,225,712. Specification of Letters Patent. Patented May 8, 1917.

Application filed May 13, 1916. Serial No. 97,290.

To all whom it may concern:

Be it known that I, LABAN A. HOSKINS, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Locking Means for Printing-Types, of which the following is a specification.

This invention relates to a means for locking two or more lines of individual types in fudge box forms used on cylinder presses.

In the printing of newspapers it is common practice to have head lines extending the width of one or more columns. These head lines upon the front page are used to display the caption for the latest news, and it is desirable that the form be held open until the paper is ready for press. The usual practice is to provide a chase commonly termed a fudge or banner box, thereby providing a form for the head lines. The type for the body of the paper is commonly set up on linotype machines, and stereotype is made therefrom which is bent and secured to the press cylinder. A blank space is reserved in the stereotype plate for the head lines. The latter are commonly set up in a banner or fudge box, and the fudge form mounted on a printing cylinder. Individual types are used in the fudge box, thereby permitting changes to be quickly and easily made in the head lines.

With fudge box constructions as now used only one line of individual type may be inserted in the box and held securely in place. It has been found that where two or more lines are set up from the ordinary type and used on a cylinder press that the type will not remain securely in place in the chase or fudge box. The centrifugal force and vibration of the cylinder causes the form to bulge and the type to become displaced.

It is an object of my invention to provide individual types suitable for a cylinder press chase, and means for interlocking the types, whereby they will be held in the fudge box against displacement.

I have illustrated an embodiment of my invention in the accompanying drawing, in which:

Figure 1 is a plan view of a form.

Fig. 2 is a section as seen on the line 2—2 of Fig. 1.

Fig. 3 is a section as seen on the line 3—3 of Fig. 1.

Fig. 4 is a type for a single line.

Fig. 5 is a perspective view of types for three lines.

Referring more particularly to the drawing, the fudge box comprises a form consisting of a base 4 having an upwardly extending side wall 5 which is under-cut, as indicated at 6. An end wall 7 is secured to the base and is preferably integral therewith. End wall 7 has an ear 8 extending therefrom, which is apertured to receive a bolt 9. The latter being secured to a movable tongue, not shown, which fits into a rabbet on the press cylinder.

A movable side wall 10 is secured to the base 4 by means of cap screws 11 and 12. The cap screws extend through apertures in the end wall 10 and the threaded ends thereof are engaged in threaded bores 13 and 14 in the base 4. Side wall 10 is beveled or under-cut, as indicated at 15. Upstanding from the base 4 is an end wall 16 which is bored at 17 and has extending therethrough a threaded bolt 18. A collar 19 is mounted upon the shank of the bolt 18 and serves in coöperation with the head 20 to hold the bolt from moving longitudinally with respect to the end wall 16. A block 21 is mounted upon the base 4 for movement between the side walls of the chase, and has a threaded bore in which the bolt 18 is engaged, so that rotation of the bolt 20 will cause the block 21 to move longitudinally of the chase. Secured to the base 4 of the chase are tongues 22 which engage rabbets upon the cylinder. Side wall 5 is cut away as indicated at 23 to provide an opening in which individual type may be inserted.

It is the practice to move block 21 against end wall 16 and insert an individual type through opening 23 moving the type between the side walls 5 and 10. These types for a single line are of the form shown at 24 in Fig. 4, having beveled ends complementary to the under-cuts in the side walls of the fudge box. The end wall 10 is then moved by means of the cap screws 11 and 12 and the

blocks 21 forced against the type, thereby holding them in the form. The bevels on the type and the under-cut side walls on the chase prevent radial displacement of the type.

In my improved construction I have provided for the use of two or more lines of individual type in the fudge box. Each of the types for two lines has a beveled end as indicated at 25 and 25′, and on the opposite end rabbets 26 and 26′ are formed. Where two lines of type are used the individual type are placed in the position with the rabbets 26 and 26′ registering. Bevel 25 cooperates with under-cut 15 and bevel 25′ with under-cut 6. Spacers extending the width of the fudge box are disposed in position, as indicated at 27 and 28 or individual type may be used which extend the full width of the fudge box, as indicated at 29. The under-faces of the spacers have grooves 30 formed therein which register with a set of registering rabbets. A key 31 is mounted in a set of registering rabbets and extends longitudinally of the fudge box. Key 31 abuts the upper wall of grooves 30 in the spacers.

Where three lines of types are used, the end line types are of the same general form used for two lines as indicated at 32 and 33 in Fig. 5. The types in the intermediate lines have rabbets 34 and 34′ on both end faces registering with rabbets 35 and 35′ in which keys are inserted. Spacers and single line type are correspondingly grooved for the keys. It is obvious that any number of lines may be used by embodying my invention.

By means of the construction just described, the types are locked in position; the keys hold adjacent type from bulging while the spacers serve to hold the key from moving outwardly.

It is obvious that the head lines can be quickly changed requiring only a few minutes to place the head lines in position before the paper goes to press, or even change the headings while the paper is on the press.

What I claim is:

In combination, a chase for a press cylinder having means to prevent radial displacement of the types, two or more lines of individual types in said chase, each type in an end line having one end arranged to cooperate with said means, and a rabbet cut in the opposite end thereof, the types of each row abutting the types in the contiguous row, said rabbets on adjacent types registering, a key in each set of registering rabbets, and spacers extending the width of said chase locked therein and overlaying said keys to prevent displacement of the latter.

In witness that I claim the foregoing I have hereunto subscribed my name this April, 1916.

LABAN A. HOSKINS.

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