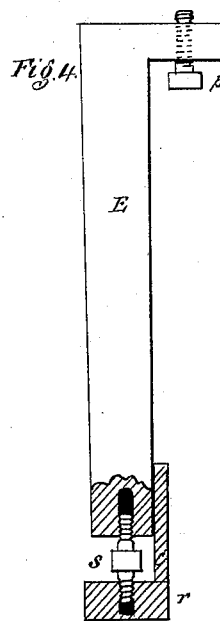
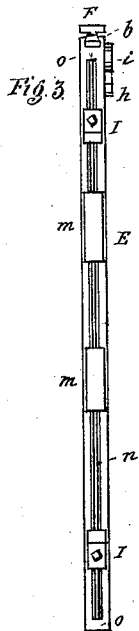
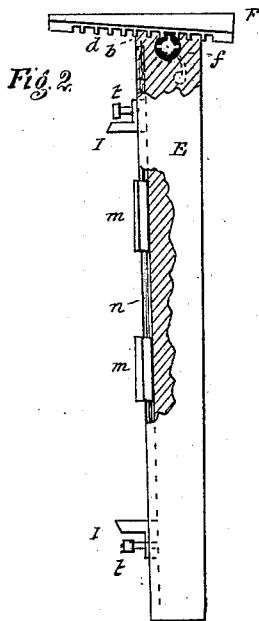
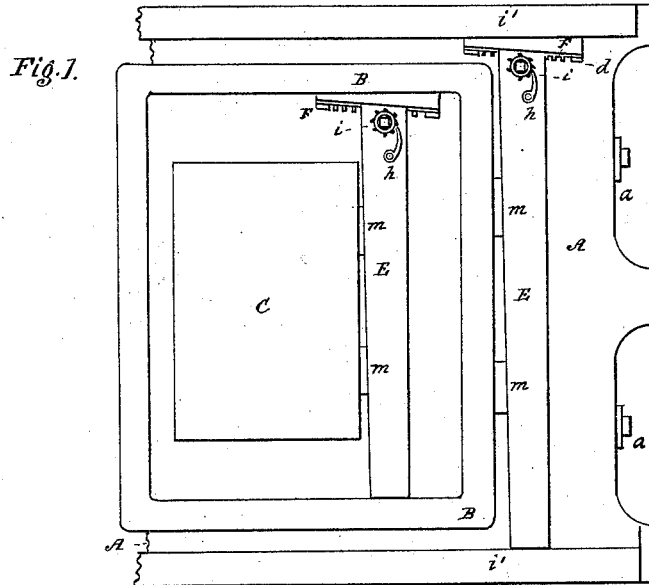


R. F. GILLIN.  
Printer's Quoin.

No. 212,683.

Patented Feb. 25, 1879.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

ROBERT F. GILLIN, OF BROOKLYN, ASSIGNOR OF ONE-HALF HIS RIGHT TO  
PHILIP DILLON, OF NEW YORK, N. Y.

## IMPROVEMENT IN PRINTERS' QUOINS.

Specification forming part of Letters Patent No. 212,683, dated February 25, 1879; application filed  
November 22, 1878.

*To all whom it may concern:*

Be it known that I, ROBERT F. GILLIN, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Quoins or Type-Locking Devices for Printing-Presses; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to an improvement in printers' furniture or quoins and type-locking devices for printing-presses; and its object is to provide improved means for securing the chase upon the bed of the press, as well as for securing the type within the chase, which can very readily and easily be placed in position, and which will obviate the necessity of using the blocks of wood which have heretofore ordinarily been employed for the purpose, thereby avoiding the inconveniences and waste of time incident to the use of the latter.

My invention consists in a type-locking device composed of a bar with a dovetailed groove at one end, into which is fitted a sliding incline or quoin, the said quoin being operated by a ratchet and pinion, or similar mechanical device; also, in the combination, with the above, of one or more inclines or quoins operating at right angles to the one above mentioned and sliding in a groove cut in the bar; and it further consists in the combination, with the bar and quoins, of one or more sliding fingers, arranged to slide in the groove last mentioned, and provided with set-screws, for the purpose of grasping the chase (or the form, as the case may be) and preventing its moving sidewise, all of which is hereinafter particularly described.

In the accompanying drawings, Figure 1 represents a portion of the bed of a printing-press with my improved device in position. Fig. 2 is a side view of my improved device, with portions of the same shown in section. Fig. 3 is a view of the front edge of the same, and Fig. 4 shows a modification of my invention.

Similar letters of reference indicate the same parts in all the several figures.

A may represent the bed of a printing-press;

B, an ordinary chase, and C a form of type, or a wood-cut, or other article from which the impressions are to be taken.

The ordinary mode of securing the chase upon the bed has been to fill in the space between the ears *a a* and the outer edge of the chase with wooden blocks and wedges; and the object of my invention is to avoid the annoyance and loss of time incident to that mode, for which purpose I employ a type-locking device constructed substantially as follows: E is a metal bar, having a dovetailed groove, *b*, at one end, into which is fitted an incline, F, which slides in the said groove. This incline is provided with a toothed bar, *d*, and is tightened up by means of a pinion, *f*, which is located near the end of the bar E, and is provided with teeth that fit into the teeth on the bar *d*, by which the latter is moved back and forth.

A pawl, *h*, that engages with a ratchet-wheel, *i*, secured upon the shaft of the said pinion, may be employed to prevent the movement of the pinion after the device has been placed in position and tightened up; or a key which fits into the teeth on the bar *d* may be employed for adjusting the incline or quoin F, suitable means being provided for stopping the latter after it has been tightened up.

At the right of Fig. 1 my improved device is shown as applied to keep the chase in position, and toward the left of the same figure it is shown as applied for keeping the form in position within the chase, being clamped (by means of the incline F) in the former case between the side bars or bearings, *v*, of the bed, and in the latter case between the sides of the chase.

*m m* are sliding quoins, each provided with a dovetailed flange, which fits into a dovetailed groove, *n*, cut in the front edge of the bar E, which latter I ordinarily make slightly tapering, to admit of the quoins being driven tight; but the bar may be made with parallel edges and placed slightly slanting to effect the same result. I I are sliding fingers, each provided with a dovetailed flange, which fits and slides in the groove *n*, and are for the purpose of grasping the corners of the chase, (or the form,

as the case may be,) to prevent lateral movement of the same. They are provided with set-screws *t*.

It will be understood that my improved device may be used either with or without the quoins *m m* and fingers *I I*.

The ends of the groove *n* are filled in, as shown at *o o*, so that the inclines or quoins *m* and sliding fingers *I* cannot fall out or be misplaced; and the incline *F* is also prevented from falling out of its groove by making the two end teeth larger than the rest, so that they will not pass over the pinion.

In Fig. 4 is shown a modification, in which the bar *E* is clamped by means of a screw, *p*, or, as an equivalent mode, by means of a movable piece, *r*, operated by a right-and-left handed screw, *s*.

By means of my improvements, as above described, the chase and the form can be placed immovably in position in a moment, and all the pieces being connected, the one with the other, there is no loss of time occasioned by any of them becoming misplaced.

What I claim as my invention is—

1. The type-locking device herein described, composed of the bar *E*, provided at one end with a dovetail groove, and the flanged and toothed incline *F*, which fits and works in the said groove, and is operated by a ratchet-pinion located near the end of the bar *E*, and is provided with teeth, which work in the teeth of the bar *d* of the incline *F*, or a suitable key fitting into the teeth on the said incline *F*, as and for the purpose set forth.

2. In combination with the bar *E* and incline *F*, constructed substantially as described, the sliding quoins *m*, (one or more,) fitted to slide in the dovetailed groove *n*, as described.

3. The combination of the bar *E*, incline *F*, sliding quoins *m*, and sliding fingers *I*, as and for the purpose set forth.

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Witnesses:

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