E. L. TORSCH & J. R. LEE.

Printer's Quoin.

No. 223,192. Patented Dec. 30, 1879.

FIG. II.

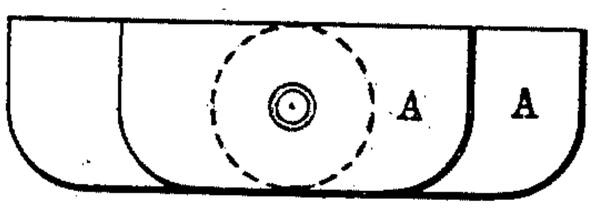


FIG. III.

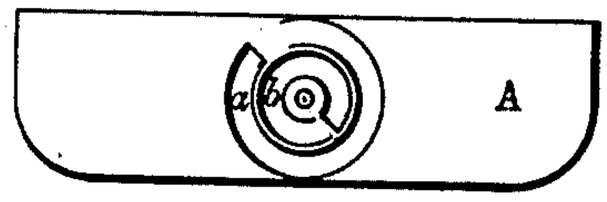


FIG. I.

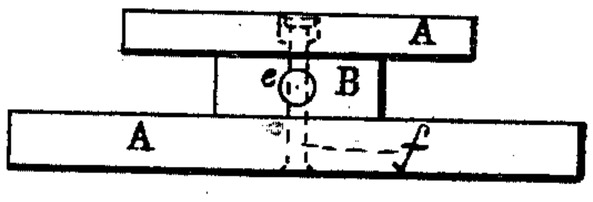


FIG. IV.

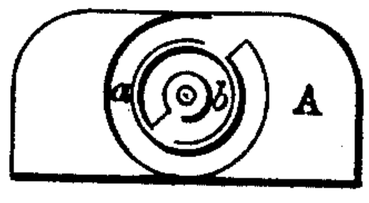


FIG. V.

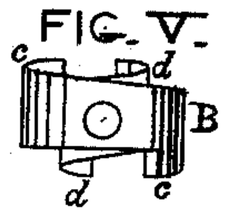


FIG. VI.

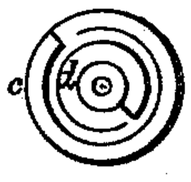
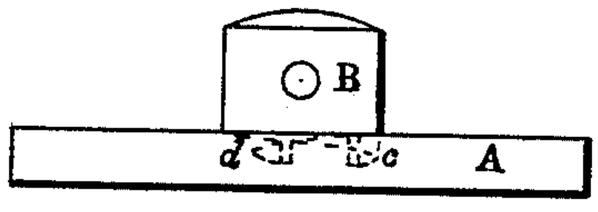


FIG. VII.



WITNESSES:

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UNITED STATES PATENT OFFICE

EDWARD L. TORSCH AND JAMES R. LEE, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN PRINTERS' QUOINS.

Specification forming part of Letters Patent No. **223,192,** dated December 30, 1879; application filed July 7, 1879.

To all whom it may concern:

Be it known that we, EDWARD L. TORSCH and JAMES R. LEE, both of the city of Baltimore and State of Maryland, have invented certain Improvements in Printers' Quoins, of which the following is a specification; and we do hereby declare that in the same is contained a full, clear, and exact description of our said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to improved means for rendering the quoins extensible; and it consists in providing one member thereof with concentric spiral projections and the other members thereof with correspondingly-shaped grooves, in which the said projections are adapted to rest.

This construction admits of the extension of the device by one member of the same being turned independently of or in a reverse direction to the others, as will hereinafter more fully appear.

In the further description of the invention which follows reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is an exterior top view of the improved quoin. Fig. 2 is a side view of the same. Figs. 3, 4, 5, and 6 are exterior views of the different parts or members of the device. Fig. 7 is a view of the improved quoin, illustrating certain modifications in its construction.

Similar letters of reference indicate similar parts in all the views.

Referring to the device, the preferred construction of which is shown in Figs. 1 to 6, inclusive, A A are plates, the inner faces of which are provided with the spiral grooves *a* and *b*. B is a block, having spiral projections *c* and *d*, corresponding with the grooves aforesaid in size and shape. The said spiral projections on either side of the block rise from the level face of the same at points diametrically opposite to each other, and, although they are of different circumferential length, terminate at a common height.

By this construction of the spiral projections they are necessarily of an equal or common height at any points diametrically opposite, or on any line drawn diametrically across the face of the block. Consequently the block is held steadily in any circumferential position in which it may be placed with reference to either or both of the plates.

The block B is provided with holes *e*, to be used in connection with a small bar or rod to effect its extensible adjustment.

The block may, however, be polygonal in shape, so as to be turned by means of a wrench.

When holes as described are used, they are preferably located in such manner as to indicate by their position the extremes of expansion and contraction of the said block with reference to the plates A.

The three members of the device are connected by means of a wire, *f*, which does not in any manner interfere with their operation, but merely prevents the said parts being mislaid.

The quoin shown in Fig. 7 differs from the one before described, in that only one plate is used and that the connecting-wire is not employed.

Having thus described our invention, what we claim as new, and wish to secure by Letters Patent of the United States, is—

1. A printer's quoin in which one member is provided with one or more spiral projections on its face or faces and the other member or members with correspondingly-shaped grooves, in which the said projections are adapted to rest, whereby a rotary movement will effect the expansion or contraction of the quoin, substantially as herein shown and described.

2. The printer's quoin herein described, consisting of the plates A and block B, the said parts being respectively provided with the grooves *a b* and projections *c d*, substantially as set forth.

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JAS. R. LEE.

Witnesses:
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L. MINKS, Jr.