

(No Model.)

C. W. WALDRON.
QUOIN.

No. 481,605.

Patented Aug. 30, 1892.

Fig. 1.

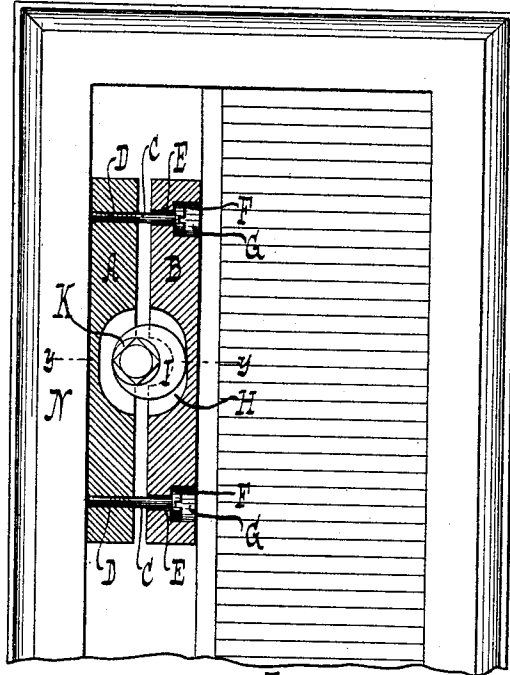


Fig. 2.

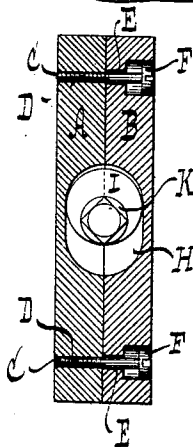
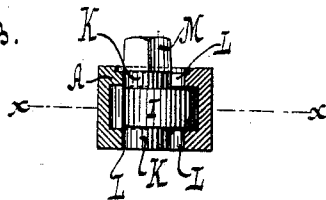


Fig. 3.



WITNESSES:

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CHARLES WILLIAM WALDRON, OF LEWISTON, MAINE.

QUOIN.

SPECIFICATION forming part of Letters Patent No. 481,605, dated August 30, 1892.

Application filed April 15, 1886. Renewed January 27, 1892. Serial No. 419,405. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WILLIAM WALDRON, a citizen of the United States, residing at Lewiston, in the county of Androscoggin, in the State of Maine, have invented new and useful Improvements in Quoins, of which the following is a specification.

This invention relates to printers' quoins; and it consists in an expansible quoin composed of two sections connected to each other by guide-pins and provided with a cam placed in a recess formed in the sections and which operates to expand the quoin and adjust it in the chase or other place where it is used.

The invention is hereinafter more fully described, reference being had to the accompanying drawings, in which—

Figure 1 shows the quoin in section xx , Fig. 3, being the plane of section. The quoin is shown slightly expanded and is represented as being in a chase. Fig. 2 is a section in the same plane, the quoin being closed. Fig. 3 is a cross-section on the line yy , Fig. 1.

Similar letters indicate corresponding parts.

The letters A B designate the sections of the quoin, which are in this example made of equal dimensions. The sections are connected with each other by guide-pins C, whose smaller ends are provided with screw-threads D, that screw into and remain in section A, first passing through the holes E made in the section B, the rest of the pins being smooth, so that the section B of the quoin can freely move on the pins, the extent of this movement being determined by the stop or head F, which is formed on the end of the smooth part of the pin and fits loosely in the countersink G of the hole E, said countersink being made as much deeper than the length of the stop or head as will allow of the desired movements of section B on the pins in the various adjustments of the quoin in the chase. It is evident that when the stop strikes the bottom of the countersink it will prevent further expansion of the quoin. In the interior of the sections of the quoin is provided a cavity H, which is formed in the inner sides of the two sections to receive a cam I, provided with gudgeons K K at each end, which have their bearings at L L in the upper and lower sides

of the sections A B, as indicated in Fig. 3. One of the gudgeons projects from the side of the quoin and is formed into a square spindle M, by means of which the cam is turned at will by applying a wrench to it. Instead of a spindle for turning the cam, a square or angular hole can be made around the center or axis of the cam to receive a male wrench. Supposing the quoin to be closed, as represented in Fig. 2, if now it is desired to expand it the cam I is turned by suitable means so as to press its enlarged side against the inner side of the cavity in section B, thereby causing that section to be moved laterally and the quoin to be expanded, as indicated in Fig. 1. In this operation section A is pressed and held against the side N of the chase by means of the gudgeons K K, which turn in and are pressed against their bearings L in the upper and lower parts of the sections. The expansion of the quoin is guided by the pins C, which prevent the sections A B from slipping against the side of the chase or the furniture, and the stop gives a limit to the extent of the expansion.

I do not restrict myself to the form or shape of the cam here shown, as the cam can be varied without departing from my invention.

The cam may, if desired, be made convex and the cavity in which it turns be made to correspond in shape.

I am aware that printers' quoins have heretofore been composed of two adjustable plates connected by headed guide-bolts having springs, said plates being expanded by means of a tapering screw; and also that eccentrics have been located in the sides of a chase to lock the forms in place. Such, however, I do not claim.

What I claim as new, and desire to secure by Letters Patent, is—

The herein-described adjustable printer's quoin, composed of the section A, recessed on its inner side, as shown, the section B, also recessed on its inner side, as shown, and provided at its ends with the holes E and countersinks G, the cam having bearings in the upper and lower sides of said sections and adapted to work in the recess H, formed by the recessed inner faces of the sections, and

the guide-pins C at one end screw-threaded into the section A and at the other end provided with a smooth portion, and a stop-head adapted, respectively, to work loosely in the
5 holes E and countersinks G of the section B, substantially as described.

In testimony whereof I have hereunto set

my hand and seal in the presence of two subscribing witnesses.

CHARLES WILLIAM WALDRON. [L. s.]

Witnesses:

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