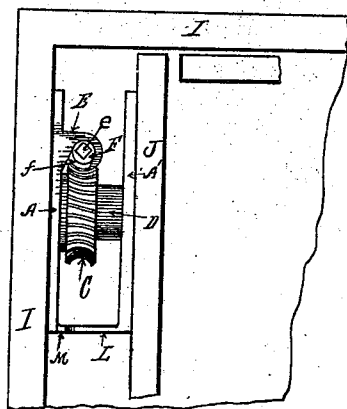
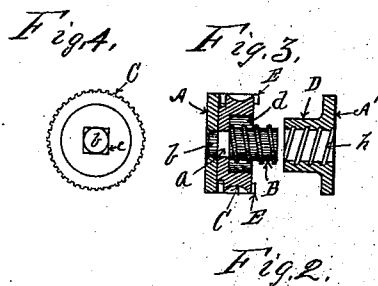
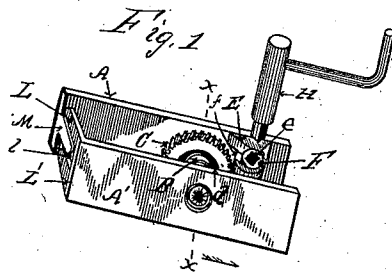


(No Model.)

J. E. BAKER.
PRINTER'S QUOIN.

No. 464,658.

Patented Dec. 8, 1891.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN E. BAKER, OF ERIE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO TIMOTHY S. GALLAGHER, OF SAME PLACE.

PRINTER'S QUOIN.

SPECIFICATION forming part of Letters Patent No. 464,658, dated December 8, 1891.

Application filed January 26, 1891. Serial No. 379,727. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. BAKER, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Printers' Quoins; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention consists in the improvements in printers' quoins hereinafter set forth and explained, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved printer's quoin. Fig. 2 is a top or plan view of same in place in a type form. Fig. 3 is a cross-section of the quoin on the line X X in Fig. 1, looking in the direction of the arrow. Fig. 4 is a view in elevation of the worm-wheel used in my device.

Like letters refer to like parts in all the figures.

The object of my invention is to construct a printer's quoin in such shape as to overcome the tendency of the quoin, when a form is locked up therewith, to work loose from the operation of the press-cylinders upon the form and release it during the operation of printing. In the construction of my improved printer's quoin I have entirely overcome this difficulty, as the construction of my quoin effectually prevents any movement thereof, except that caused by the key or wrench in the hand of the operator.

In the construction shown of my improved printer's quoin A A' are the side sections of the quoin. In side section A of the quoin I mount the shank *b* of a screw B, having thereon a small worm-wheel C, through a squared hole *c* in which the squared portion *a* of the shank *b* of the screw passes, the portion of the shank *b* passing through the side section A being round, so that it will turn freely therein, and is secured in place by having the outer end

thereof slightly riveted over, so as to retain it in place. On the inside of the other side section A' of the quoin is a sleeve D, through which a thread *h* is cut to receive the screw B, and in the face of the worm-wheel C is also cut an annular recess *d*, so as to allow the end of the sleeve D to pass into the same when the screw is operated to close the sides A A' of the quoin together. On the inside face of the side section of the quoin A are ears E, in which I mount a vertical worm-shaft F, having a worm *f* thereon, which intermeshes with and is adapted to rotate the worm-wheel C and the screw B, upon which it is secured. In the upper end of the shaft F, I also make a squared recess *e*, preferably extending entirely through the shaft, and adapted to receive the squared end of a key or wrench H for turning the worm-shaft F. On the inside of one end of the side section A' of the quoin I secure laterally-projecting arms L L', one above the other, so as to leave a space *l* between them, and on the central part of the end of the side section A of the quoin I secure a laterally-projecting arm M, adapted to pass into the space *l* between the arms L L' on the section A' when the two side sections are placed together, so as to retain the side sections A A' of the quoin horizontally parallel with each other.

In operation the quoin is placed in a chase I between it and the side or end stick J of a form, and the key H is then inserted, and by turning it in one direction the side sections A A' of the quoin are moved apart so as to firmly lock the quoin in place, in which position it will remain until unlocked by reversing the movement of the key H, inserted therein, any backward movement of the screw B being effectually prevented by the operation of the worm *f* upon the worm-wheel C, secured to the shank of the screw B.

Having thus described my invention so as to enable others to construct and operate the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination, in a printer's quoin con-

sisting of two parallel side sections, of a screw having a worm-wheel mounted on the inside face of one of the side sections, as A, of the quoin and a worm-shaft mounted in ears on
5 the inside face of said side section and intermeshing with said worm-wheel, with a sleeve-nut secured to the inside face of the other side section, as A', of the quoin to receive the screw

B, mounted in the section A of the quoin, substantially as and for the purpose set forth. 10

In testimony whereof I affix my signature in presence of two witnesses.

JOHN E. BAKER.

Witnesses:

LOUIS ALBRACHT, Jr.,

A. L. JACKSON.