

E. A. WARREN.
Printers' Chases.

No. 138,967.

Patented May 13, 1873.

Fig. 1.

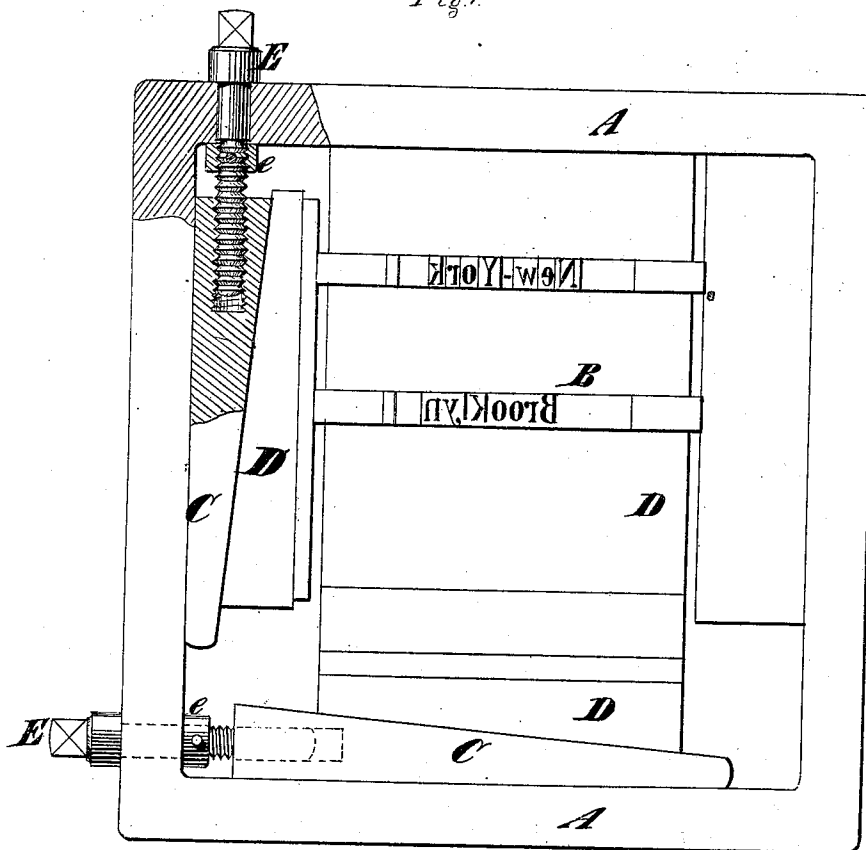
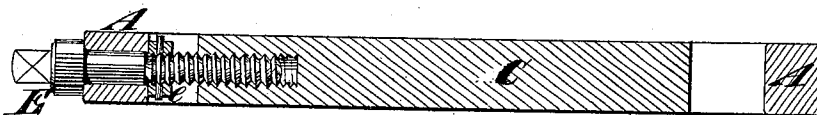


Fig. 2.



Witnesses
Geo. Warner
Geo. Allen

E. A. Warren
by his Attorneys
Geo. Allen

UNITED STATES PATENT OFFICE.

EDMOND A. WARREN, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN PRINTERS' CHASES.

Specification forming part of Letters Patent No. **138,967**, dated May 13, 1873; application filed April 17, 1873.

To all whom it may concern:

Be it known that I, EDMOND A. WARREN, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Printers' Chases, of which the following is a specification.

This invention consists in the combination, with a wedge or quoin extending along either side of the chase, of a screw which works within the quoin, but is confined against longitudinal motion in the chase, whereby a very simple and effective means of operating the quoins of a chase is obtained, which can be easily and quickly operated, and will not readily get out of order.

In the accompanying drawing, Figure 1 is a sectional face view of a chase having my improvement applied, and Fig. 2 is a transverse section of the same taken through one of its quoins.

Similar letters of reference indicate corresponding parts in both figures.

A is the chase, which is of rectangular form, and made of iron in the usual way. B represents a form made up ready for printing, and C C the wedges or quoins employed to secure it. These act against suitable furniture, D D, interposed between them and the form, and consist of long iron wedges, extending along nearly the entire length of the adjacent sides

of the chase. Opposite the large ends of the quoins there are arranged in the chase screws E E, which are confined longitudinally, but are free to turn. They have heads on their outer ends, and collars *e e* are secured on them just inside the frame, so that they cannot move at all in the direction of their length. Their end portions beyond the frame are screw-threaded, and work into tapped holes in the ends of the wedges C C, and thereby impart motion to them.

These screws are operated by a key applied to their heads, and according to the direction in which they are turned so are the wedges worked forward or drawn back.

This means of operating the quoins of a chase is not only extremely powerful, but is withal very simple and efficient; and because there is but one quoin for each side, one operation only is requisite to lock up each side.

What I claim as my invention is—

The combination of the wedges or quoins C C and the screws E E, working in tapped holes therein, and turning, but confined longitudinally, in the chase, substantially as and for the purpose herein set forth.

EDMOND A. WARREN.

Witnesses:

MICHAEL RYAN,
FRED. HAYNES.