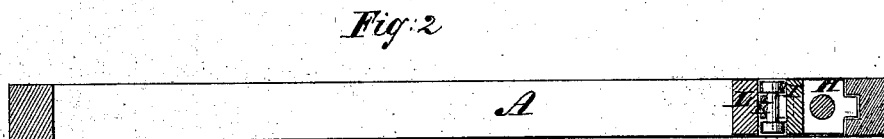
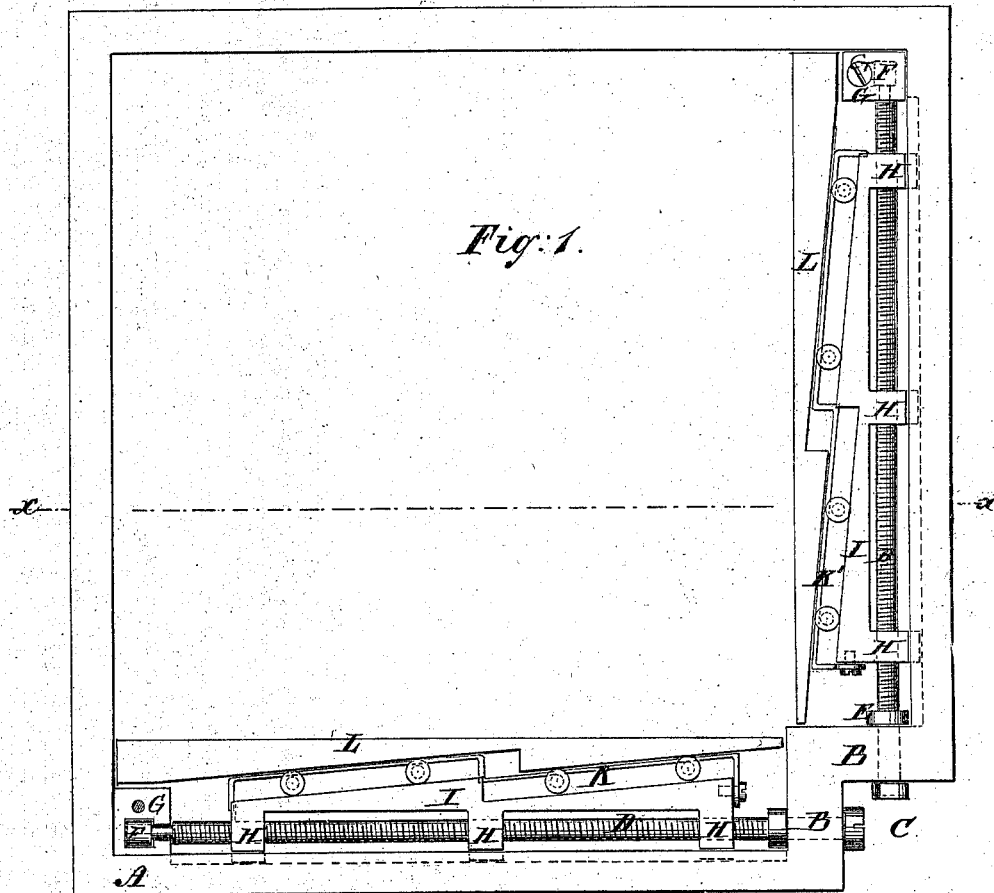


WILLIAM H. WINDSOR.

Improvement in Printers' Furniture.

No. 115,404.

Patented May 30, 1871.



Witnesses:

*C. Raettig*  
*Wm. H. C. Smith.*

Inventor:

*W. H. Windsor.*

PER

*Mmuel*  
Attorneys.

# UNITED STATES PATENT OFFICE.

WILLIAM H. WINDSOR, OF LITTLE ROCK, ARKANSAS.

## IMPROVEMENT IN PRINTERS' FURNITURE.

Specification forming part of Letters Patent No. 115,404, dated May 30, 1871.

*To all whom it may concern:*

Be it known that I, WILLIAM H. WINDSOR, of Little Rock, in the county of Pulaski and State of Arkansas, have invented a new and Improved Printers' Chase; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in the construction of a printer's chase, in which the side-sticks, having inclined planes upon one side, are worked to clamp the type by other movable sticks with counter-inclines, operated by screws, friction-rollers being employed between the inclined planes; and the invention consists in a construction of the frame of the chase and arrangement of the screws, as hereinafter described.

Figure 1 is a plan view of my improved chase, and Fig. 2 is a section of the same on the line *x x*.

Similar letters of reference indicate corresponding parts.

The chase proper A is made of an iron bar, one or one and a half by five-eighths inch, but graduating or varying the size by the form to be locked. This I shape at one corner, as shown at B, leaving a notch or space for the purpose of bringing the heads of two screws, D, on the outside of the chase at the cut-out corner, and have a collar, E, on the inside, and are fast-

ened at the other ends by enlargements F thereon, being let into bearings G in the corners, thus making the screws stationary, and reaching the full length of the chase. These screws pass through three or more tongued bearings, H, on side-sticks I, which work in a groove in the side of the chase, to which side-sticks there are four or more small grooved rollers attached by a tongue or bar, K, fastened to the said sticks at each end and in the middle.

The said bars bearing in the grooves in the rollers on the side next the side-sticks L, which have inclines reversed to those on the sticks worked by the screws, the side-sticks I move against the type by the action of the movable sticks L worked by turning the screws, which force the movable side-sticks to either end of the chase. The object of the notch is to bring the screw-heads outside of the chase, where they will not interfere with any appliances employed in locking the chase upon the press.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The chase proper, having the notch C formed in the corner for arranging the heads of the two screws on the outside, substantially as and for the purpose specified.

W. H. WINDSOR.

Witnesses:

PETER BRUGMAN,  
CHARLES W. CROCKETT.