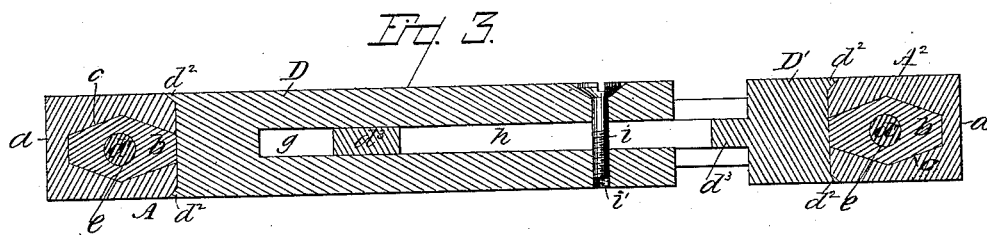
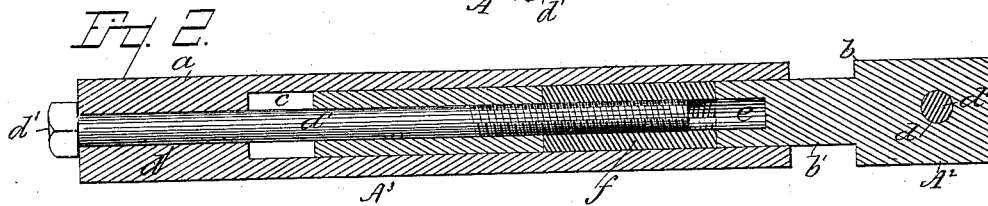
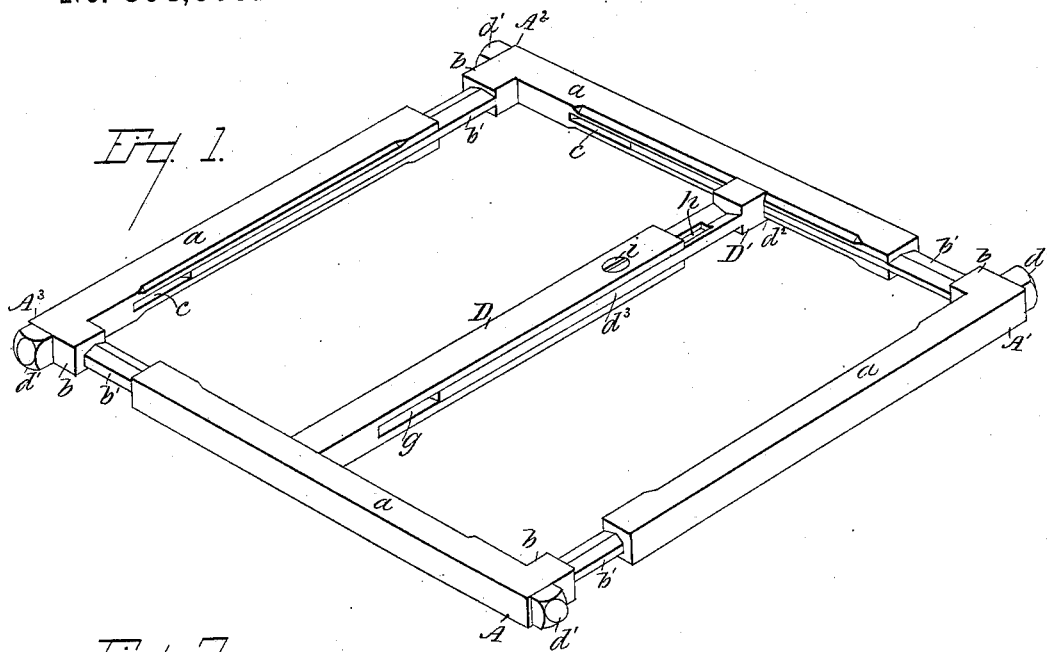


(No Model.)

J. BRILL.  
PRINTER'S CHASE.

No. 304,605.

Patented Sept. 2, 1884.



Witnesses:

E. G. Jones  
R. Platz.

Inventor:  
John Brill  
By  
J. H. Underwood.  
Attorneys.

# UNITED STATES PATENT OFFICE.

JOHN BRILL, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO PETER J. BRILL,  
OF SAME PLACE.

## PRINTER'S CHASE.

SPECIFICATION forming part of Letters Patent No. 304,605, dated September 2, 1884.

Application filed January 29, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN BRILL, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain  
5 new and useful Improvements in Printers' Chases; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to chases for printers' use, and will be fully described hereinafter.

In the drawings, Figure 1 is a perspective view of my improved chase. Fig. 2 is a vertical longitudinal section through the center of one of the chase-sides, and Fig. 3 is a like  
15 section through the central brace of the same.

The object of my invention is to provide an improved chase which can readily be adjusted to fit type-forms of various sizes, and thus adapted to be conveniently used in place of  
20 the assorted chases now necessary in printing establishments where a variety of job-work has to be done.

My adjustable chase consists of the four similar L-shaped pieces A, A', A<sup>2</sup>, and A<sup>3</sup>,  
25 the parts a and b of which are made so as to slide respectively over and inside the parts b and a of each adjoining piece. For this purpose a double-dovetail-shaped groove, c, is formed on the inner edge of the part a, to extend from its outer end to within a slight distance from the angle it forms with the part b,  
30 and through the center of the remaining solid angle end of said part a a longitudinal perforation, d, is made, wherein works the adjusting-bolt d'. The outer end of the part b is made in the shape of a double-dovetail tenon, b', to correspond in length with and loosely fit in the groove c of the adjoining angle-piece,  
35 a well-hole, e, to extend longitudinally along the center of said tenon b', and to correspond with the perforation d, made in the solid portion of the part a of the adjoining angle-piece. A threaded nut, f, is embedded at a suitable point in the tenon b', so that its central opening stands directly opposite the well-hole e,  
40 and is thus adapted to receive the threaded end of the bolt d'. The angle-pieces A, A', A<sup>2</sup>, and A<sup>3</sup> being put together by slipping the tenoned part b' of each one into the groove c

in the part a of each adjacent piece, the bolts d' d' are screwed in the nuts f f until the desired size of chase has been obtained. The inner, upper, and lower edges of the parts a a are slightly beveled, and against said beveled edges rest the beveled laps d' d', formed on the outer ends of the central cross-bar, D D'.  
55 The piece D has a double-dovetail-shaped slot, g, opening in the inner end of said piece D, and extending along its center to a distance corresponding to the length of the grooves c in the parts a of the chase-pieces. The piece D' has its inner end formed as a double dovetail-tenon, d', of a length to correspond and fit in the slot g of the piece D. The central part of this tenon d' has the vertical slot h to receive the body of the fastening-screw i, which  
65 passes through a hole in the upper part of the slotted piece D, and screws in a threaded hole, i', in the lower part of the same, whereby when this screw is tightened after adjustment of the parts D and D' the arms of the part D, above and below the slot g, are respectively pressed down and drawn up against the tenon d' of the part D', thus making the cross-bar perfectly rigid, while by simply turning the  
75 screw in the opposite direction the pressure will be withdrawn from the said tenon d', which will then be free to move in and out of the slot g, (subject to the limits of its own slot h,) and thus permit any new adjustment of the chase desired.

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

1. A chase for type-forms, consisting of four angle-pieces adapted to slide more or less into one another, and be maintained therein in adjustment, as desired, by means of screw-bolts, substantially as set forth.

2. In combination with an adjustable chase, an adjustable cross-bar consisting of two parts adapted to slide one upon the other, and to be secured at any desired adjustment by means of a set-screw, substantially as set forth.

3. The combination of the angle-pieces, each having a longitudinal groove and perforation in one part and a tenon on the other part, the said tenon being perforated longitudinally,

with the nuts *f* embedded in the said tenons, and the screw-bolts *d'*, substantially as set forth.

4. In combination with an adjustable chase,  
5 the adjustable cross-bar formed of two parts, D and D', one provided with a longitudinal slot and vertical screw-holes, and the other with a tenon adapted to move therein, the said tenon having a vertical slot, and the securing-  
10 screw *i*, adapted to work in said slot, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

JOHN BRILL.

Witnesses:

H. G. UNDERWOOD,  
A. C. PLEYTE.