

JOHN F. UHLHORN.

Improvement in Printers' Furniture.

No. 115,136.

Patented May 23, 1871.

Fig. 1.

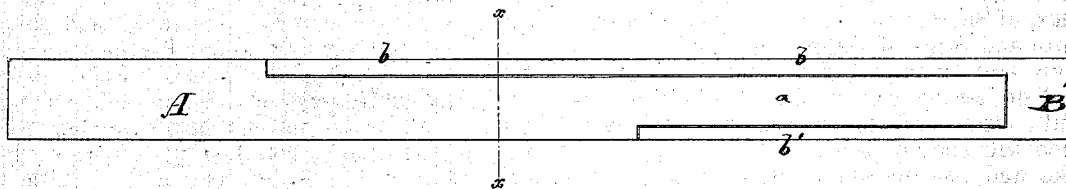


Fig. 2.

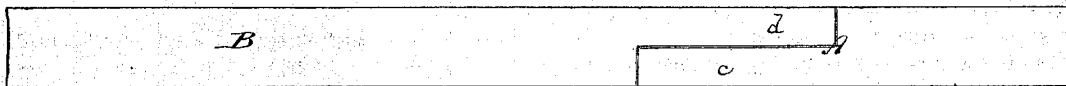


Fig. 3.

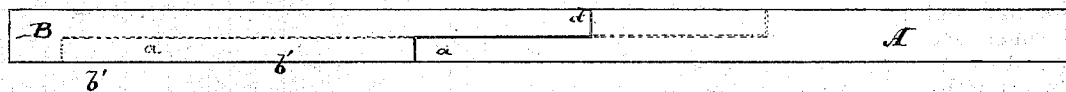


Fig. 4.



Witnesses:

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JOHN FREDERICK UHLHORN, OF SACRAMENTO, CALIFORNIA.

IMPROVEMENT IN PRINTERS' FURNITURE.

Specification forming part of Letters Patent No. 115,136, dated May 23, 1871.

To all whom it may concern:

Be it known that I, JOHN FREDERICK UHLHORN, of Sacramento, in the county of Sacramento and State of California, have invented a new and Improved Extension Side-Stick; 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, in which—

Figure 1 represents an inner face view of my improved extension side-stick. Fig. 2 is an outer face view of the same. Fig. 3 is a bottom view of the same. Fig. 4 is a transverse section of the same on the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new extension side-stick, or "furniture" for printers, and has for its object to so shape the two pieces which compose the stick that, however extended or contracted, they will always be in proper contact with the entire lot of types. The invention consists in composing the said furniture of two pieces, of which one is grooved and the other forms a tongue to fit the grooves.

A B in the drawing represent the two parts or pieces of my improved side-stick for locking up forms of type. They are made of wood or metal, and of such form that, when put together and contracted, as in the drawing, they will constitute one solid prismatic stick of proper dimensions. The piece A has its outer end made of the full cross-section of said entire

stick, but is then reduced on its outer face, so as to form a tongue, *a*, on the inner face. This tongue is also narrower vertically than the end of the stick, as in Fig. 1. The piece B is as large at its outer end as A, but has its inner face grooved to receive the tongue *a*, as in Fig. 1. When the pieces are extended to lengthen the entire stick, the tongue *a*, toward one end, and the lower ledges *b b'* of the grooved piece B will be in contact with the type. On the outer faces of the pieces A B steps *c d* are respectively cut into them, overlapping each other, and serving as guides during the extension. That face of the side-stick which contains the tongue and groove is the inner, that having the steps the outer side of the same—that is to say, the inner face is in contact with the types, the outer with the grooves.

The types are higher than the side-sticks, and thereby held in place by the tongue, and by the ledges *b b'* of the same when it is extended.

This invention will overcome the necessity of using side-sticks of different lengths, as one can be made to answer any desired length.

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

The extension side-stick, composed of the pieces A and B, which have the tongue *a* and ledges *b b'*, respectively as set forth.

JOHN FREDERICK UHLHORN.

Witnesses:

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