R. C. Love,

Work Bench.

No. 111,553. Patented Feb. 7, 1871.

Fig. 1.

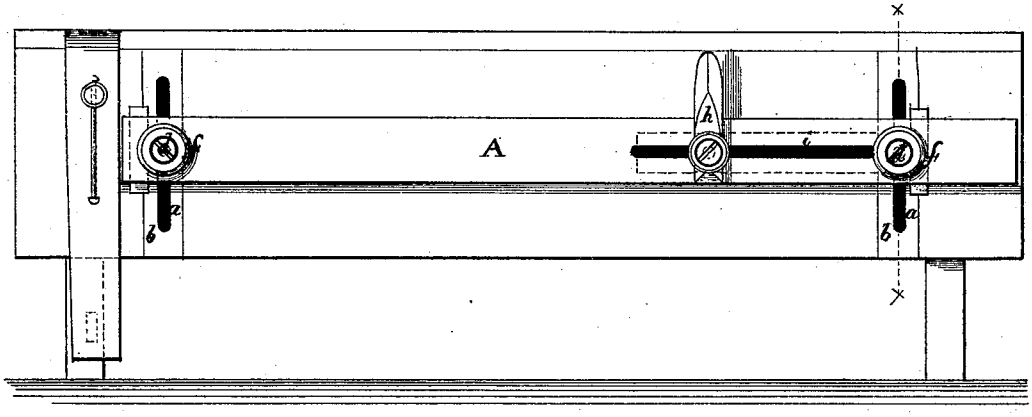
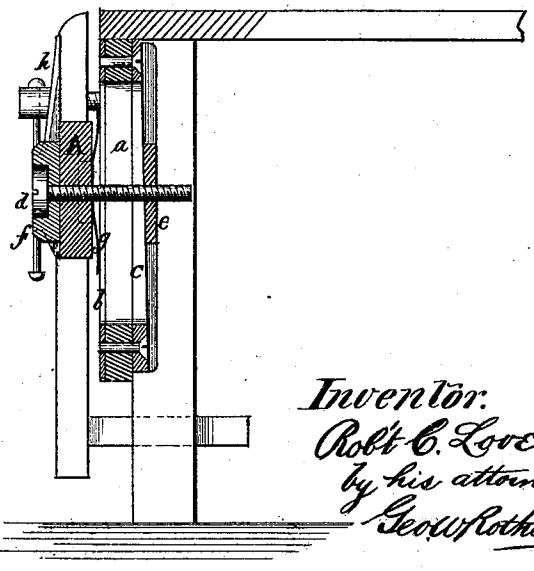


Fig. 2.



Witnesses.

Phil. D. Lazner,

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Inventor:

Robt C. Love,

by his attorney,

Geo. W. Rothwell.

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United States Patent Office.

ROBERT C. LOVE, OF AUGUSTA, MAINE.

Letters Patent No. 111,553, dated February 7, 1871.

IMPROVEMENT IN CARPENTERS' WORK-BENCHES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ROBERT C. LOVE, of Augusta, in the county of Kenebec and State of Maine, have invented a new and useful useful Improvement in Bench-Slides for Carpenters and Joiners; and I do hereby declare the following to be a full, clear, and exact description thereof sufficient to enable those skilled in the art to which my invention appertains to fully understand and to make and use the same, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 is a side elevation, showing my improved slide applied to a bench.

Figure 2 is a vertical section, the plane of which is indicated by the line *x x* in fig. 1.

The subject of this invention is a slide applied to the side of a work-bench, and made adjustable in vertical slots therein, for supporting and securing boards edgewise when it is desired to plane or joint them on the edges.

The invention consists in the construction, arrangement, and combination of parts, as hereinafter more fully described and claimed.

Referring to the drawing, wherein similar letters of reference indicate like parts in the several figures—

A represents a broad, strong strip, preferably made of hard wood, and of any desired length, according to that of the bench, and of the lumber usually employed by the carpenter or joiner in his manufactures.

In the front side of the bench are vertical slots, *a a*, protected on the outside by escutcheons, *b b*, of metal, set in flush with the outer surface of the side of the bench.

On the inside are secured slotted plates or escutcheons, *c c*, which are provided with flanges at the sides, and are made gradually thicker from the top toward the bottom, as shown in fig. 2, for a purpose to be hereinafter stated.

The slide A is secured to the bench by means of screws, *d d*, which pass through holes in the slide, and through the slots *a* in the bench, and are fastened by nuts, *e e*, fitted between the flanges on the plates *c c*, whereby they are prevented from turning.

These screws also pass through and are countersunk in washers, *f f*, situated on the outside of the strip or slide. I prefer to use as the fastening-screws *d d*, those which are turned by an ordinary screw-driver.

The object in making the escutcheons *c c* tapering in thickness is to prevent the slide from falling suddenly when the screws are loosened. Instead of this provision, or as auxiliary to it, I employ springs, *g g*, secured to the back of the slide, the ends bearing against the bench, and thus keeping the nuts *e* in close contact with the plates *c c*.

To retain the lumber in place on the slide I have provided a swinging button, *h*, secured by a countersunk screw and nut to the slide, and capable of horizontal adjustment by means of a slot *i*. This button can stand as shown in fig. 1, or at an angle, or turned down entirely out of the way. It is fixed in position by tightening the screw which fastens it to the slide. If a vise is not used, a second fastening-button may be applied in its place.

To use my slide, it is adjusted vertically according to the width of the board to be planed or jointed, and the latter is then placed edgewise on the slide, and there retained by a proper adjustment of the button.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the slide A, slotted bench and escutcheons, the screws *d d*, washers *f*, nuts *e*, and the means herein described for preventing the slide from falling too suddenly, all constructed, arranged, and operating substantially as set forth.

2. In combination with the vertical adjustable slide A, the horizontally-adjustable and swinging button *h*, secured by a screw and nut so as to be retained in position when adjusted, all constructed, arranged, and operating substantially as herein described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ROBERT C. LOVE.

Witnesses:

C. W. HARDY,

R. M. MANSUR.