J. Richards,

Guide for Scroll Saws,

No. 35,390. Patented May 27, 1862.

Fig. 2

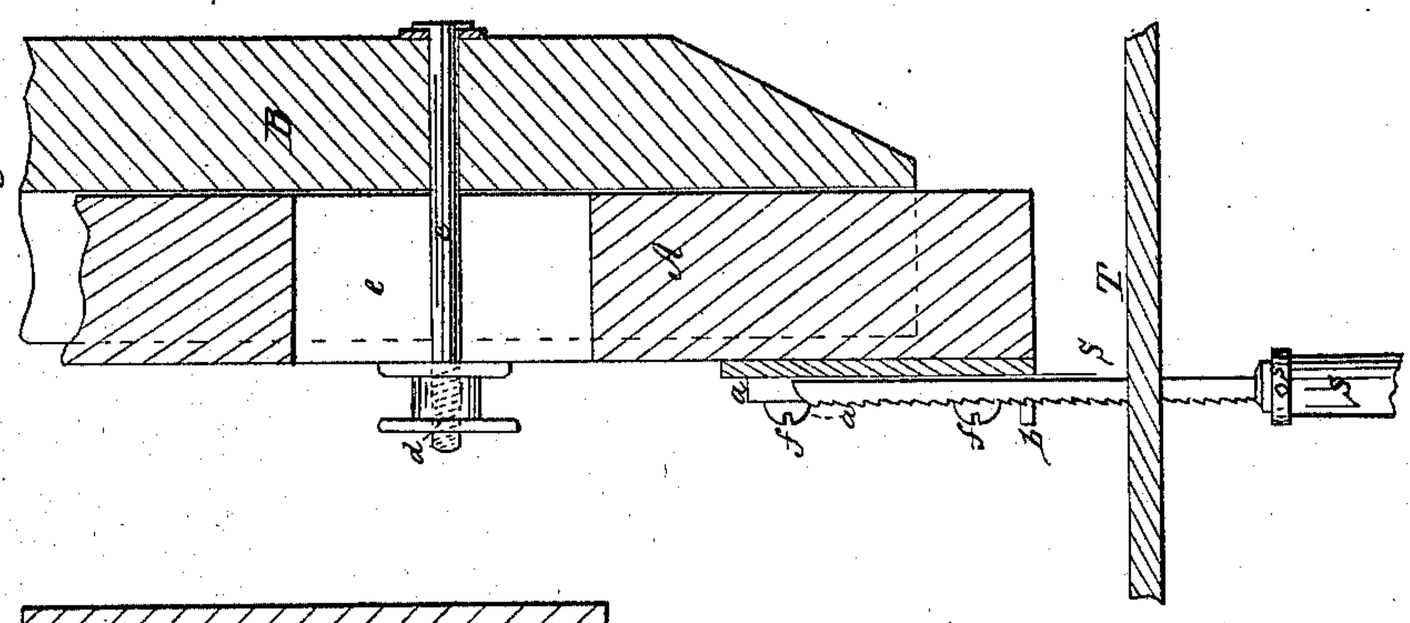

Fig. 3

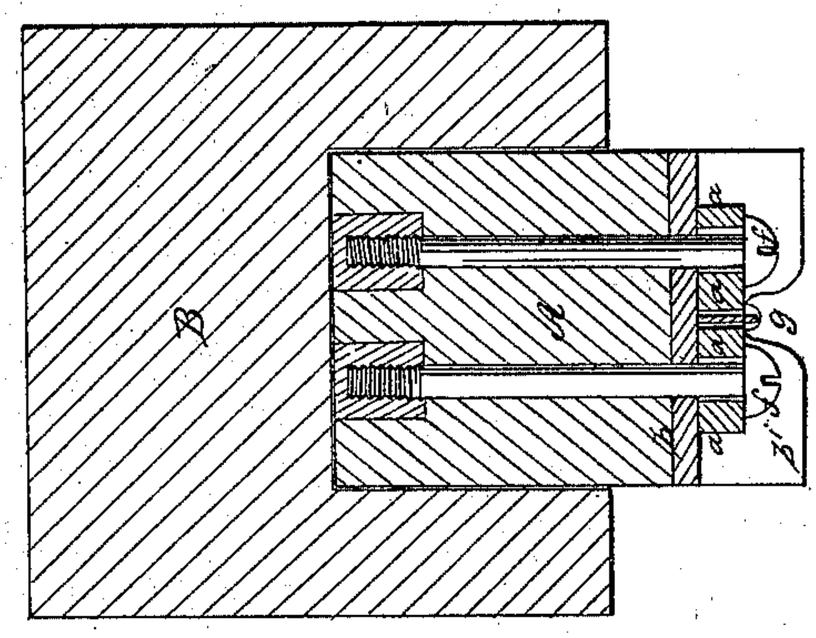

Fig. 1

Witnesses;
Gustavus Dieterich
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UNITED STATES PATENT OFFICE.

JOHN RICHARDS, OF COLUMBUS, OHIO.

IMPROVED GUIDE AND SUPPORT FOR SCROLL-SAWS.

Specification forming part of Letters Patent No. **35,390**, dated May 27, 1862.

To all whom it may concern:

Be it known that I, JOHN RICHARDS, of Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Combined Guide, Guard, and Support for Scroll-Saws; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a portion of the table and the saw-blade and my improved upper combined guide, guard, and support; Fig. 2, a longitudinal section of the same connected to the suspending-stud of the building. Fig. 3 is a horizontal section in the line *x x* of Fig. 2.

Similar letters of reference in the several figures indicate corresponding parts.

The nature of my invention under this patent consists in the guide and back supporting bars or plates in connection with the sliding guard, the same constituting a combined "guide," "guard," and "support" for the free or disconnected upper portion of a scroll-saw blade.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation with reference to the drawings.

I do not use a sash or other means of straining the saw S, but fasten the lower end of the same to the upper end of a stock or slide, S′, of the pitman by a set-screw, S^2, or in any other similar manner, and leave its top or upper portion disconnected above the table T. The said upper portion of the saw is supported and guided by means of the two parallel bars *a a* and the angular plate *b*. The bars have a lateral adjustment to accommodate saws of different thicknesses, their purpose being to keep the saw in a true vertical line and to keep it from twisting, while the office of the back plate, *b b′*, is to support the saw against the strain of the stuff on the teeth when the work is being shoved against it.

The guides *a a* and back plate, *b b′*, are all made of hardened steel to prevent friction and wear. This device *a a b b′* is fastened to the lower end of the sliding strip or guard-piece A, which is fitted in a groove of a suspended stud, B, of the building, and confined, accordingly as the thickness of the stuff being sawed requires, by means of a clamping screw-bolt, *c*, and hand-nut *d*. The bolt passes loosely through an oblong slot, *e*, of the guard-strip, but fastens firmly in the stud B, as shown. This guard rests in close contact, or nearly so, with the stuff being sawed, and keeps the same firmly down upon the table while the device *a a* and *b b′* guides and supports the saw, as above stated.

It will be seen that screw-bolts *f f* confine the plate *b* and bars to the strip or guard A, and that the holes or slots through the bars *a* are elongated, so as to allow the guide-bars *a* a chance to move nearer together or farther apart to admit different thicknesses of saw-blade. It will also be seen that the guides, by being attached to the strip, are adjusted with it up and down, the said up-and-down adjustment being allowed by the slot *e* of the strip, and thus the angular part *b′* of the plate *b* aids also in holding down the stuff, it having a vertical kerf, *g*, cut in it to admit the saw-blade; and the guide and supporting plates or bars are always in proper position. This arrangement also obviates the necessity of leaving the upper end of the saw-blade above the table unsupported and unguided, as it allows of the work or stuff being freely turned while the sawing is progressing, a clear open space between the guard and table being left.

The plate *b* might be made without the angular part *b′*, but not answer so good a purpose.

I do not claim operating a scroll-saw without straining. Nor do I claim the application of lateral guides to saws. Neither do I claim an adjustable guard to prevent the stuff rising with the saw; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The guide-bars *a a* and the back plate, *b*, in connection with the sliding guard-strip A, the same constituting a combined guide, guard, and support for the top of a scroll-saw, and operating substantially as herein described.

Witness my hand and seal in the matter of my application for patent on improved upper guide, guard, and support for scroll-saws this 14th day of April, A. D. 1862.

JOHN RICHARDS. [L. S.]

Witnesses:

GUSTAVUS DIETERICH,

EDWIN S. JACOB.