

J. Reilly.

Saw Tightener.

N^o 85,694.

Fig. 1. Patented Jan. 5, 1869.

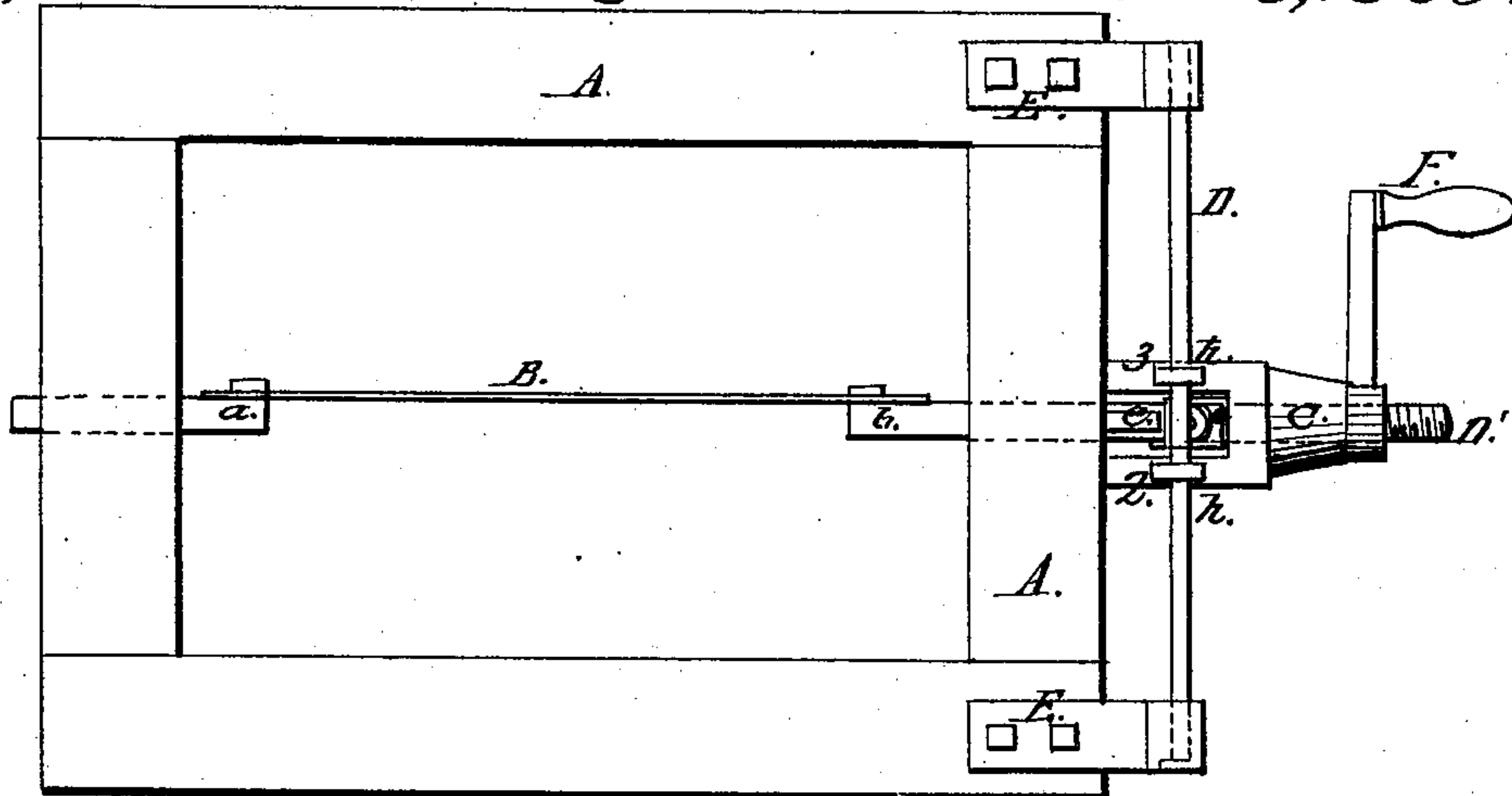


Fig. 2.

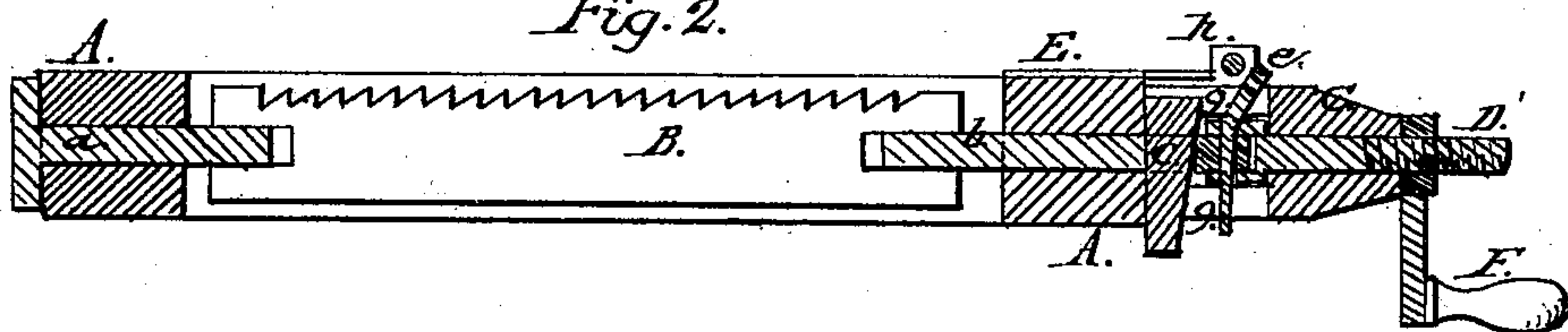
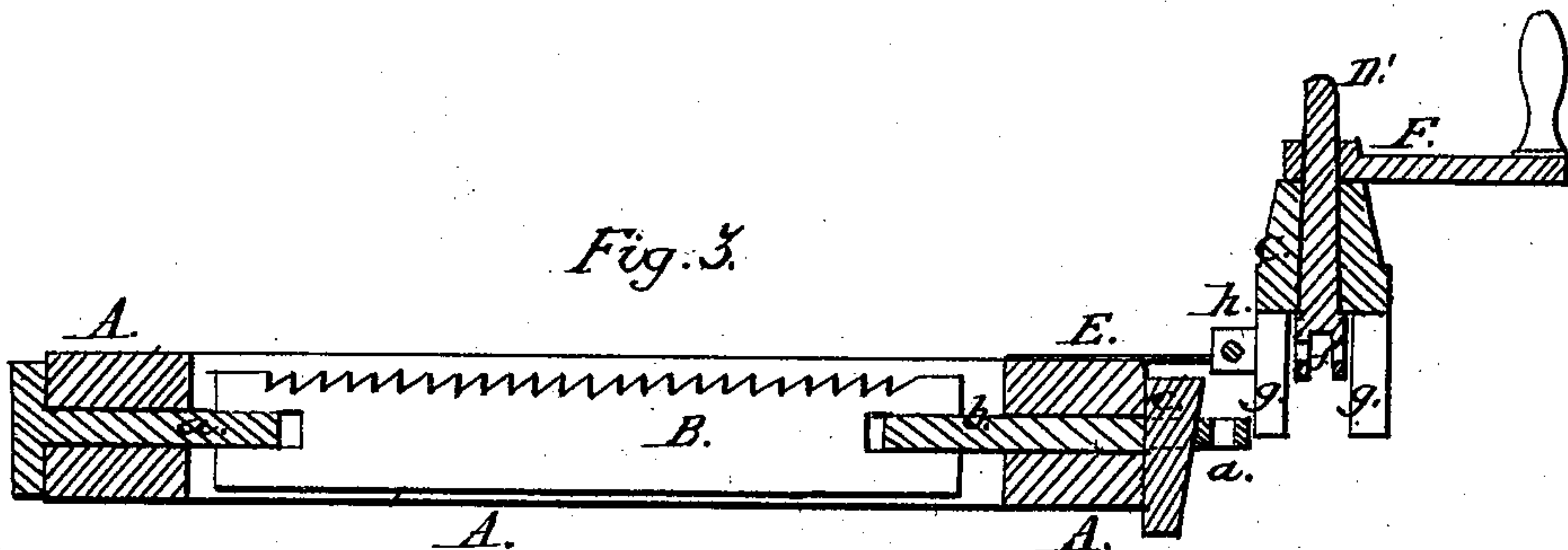


Fig. 3.



Witnesses:
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United States Patent Office.

JOHN REILLY, OF BALTIMORE, MARYLAND.

Letters Patent No. 85,694, dated January 5, 1869.

IMPROVEMENT IN SAW-BUCKLES AND FRAMES.

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, JOHN REILLY, of Baltimore city, county of Baltimore, in the State of Maryland, have invented a certain new and useful Improvement in Saw-Buckles for Saw-Frames, used in sawing stone, lumber, &c.; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which like parts are indicated by like letters in the several figures.

The nature of my invention consists in a peculiar construction and operation of parts, to be hereafter described, whereby one buckle will answer for a frame, which may hold a number of saws.

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

In the drawings—

Figure 1 is a top view of my invention, as applied to a horizontal saw-frame;

Figure 2, a central vertical section of same, showing a saw with teeth placed upward; whilst

Figure 3 represents a similar section, the buckle turned up to be shifted to another saw-blade.

A represents the saw-frame, which may contain one or more blades, or a "gang," as used both in stone and lumber-sawing.

It is well known, the blades require frequent stiffening or tightening, which is most generally done by wedges, and too frequently the driving in of one wedge only loosens the others.

To remedy this is the object of my invention, whilst my buckle or apparatus can be readily applied to each blade in a frame, as well as to different saw-frames.

B represents the saw-blade or blades, and

a b, the "stirrups" at each end, passing through slots at the ends of the frame, whether horizontal or upright.

c is a wedge or key passing through a hole in the stirrup *b*, and nearer the end of *b* is another pin-hole, *d*, for a pin, *e*, to pass through, connecting it with the

buckle *C*, by means of a screw-bolt, *D*, passing through it, and which is made so as not to turn in its socket or hole through *C*, and which has holes *f* through its bifurcated front end, for the pin *e* to pass through, thus connecting the frame, the saw, and the buckle.

The buckle *C* has two or four bearing-points, *g*, to rest against the frame *A*, and two lugs, *h*, with holes through them, so as to slide *C* along a rod, *D*, which rests in or upon suitable bearings *E*, which will be varied somewhat to suit a vertical or horizontal frame.

F is a crank or handle, screwing upon the bolt *D*.

The operation is as follows:

To tighten the saw-blade *B*, the parts all being connected as shown in figs. 1 and 2, all that is necessary is to "screw up" the handle *F*, when the tapering wedge or key drops further into its opening in stirrup *b*.

To tighten, say, an adjoining blade, take out the pin *e*, turn up the buckle, as shown in fig. 3, so as to clear the end of *b*, slide it to one side, and attach it to the next or other blade requiring tightening, and repeat the operation.

b and *D* may have hooked ends to grapple each other, or they may be connected in any desirable way.

By means of hooks, instead of the lugs *h*, the buckle may be more readily attached to or detached from rod *D*, and the rod and buckle can both be removed from bearings on frame *A*, and be transferred to similar ones on other frames, thus making one "buckle" answer for any desired number of frames.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The "buckle" *C*, constructed and operated in the manner substantially as shown and described, and for the purpose set forth.

JOHN REILLY.

Witnesses:

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