S. BOONE.

CROSS-CUT SAW-HANDLE.

No. 172,381. Patented Jan. 18. 1876.

Fig. 1.

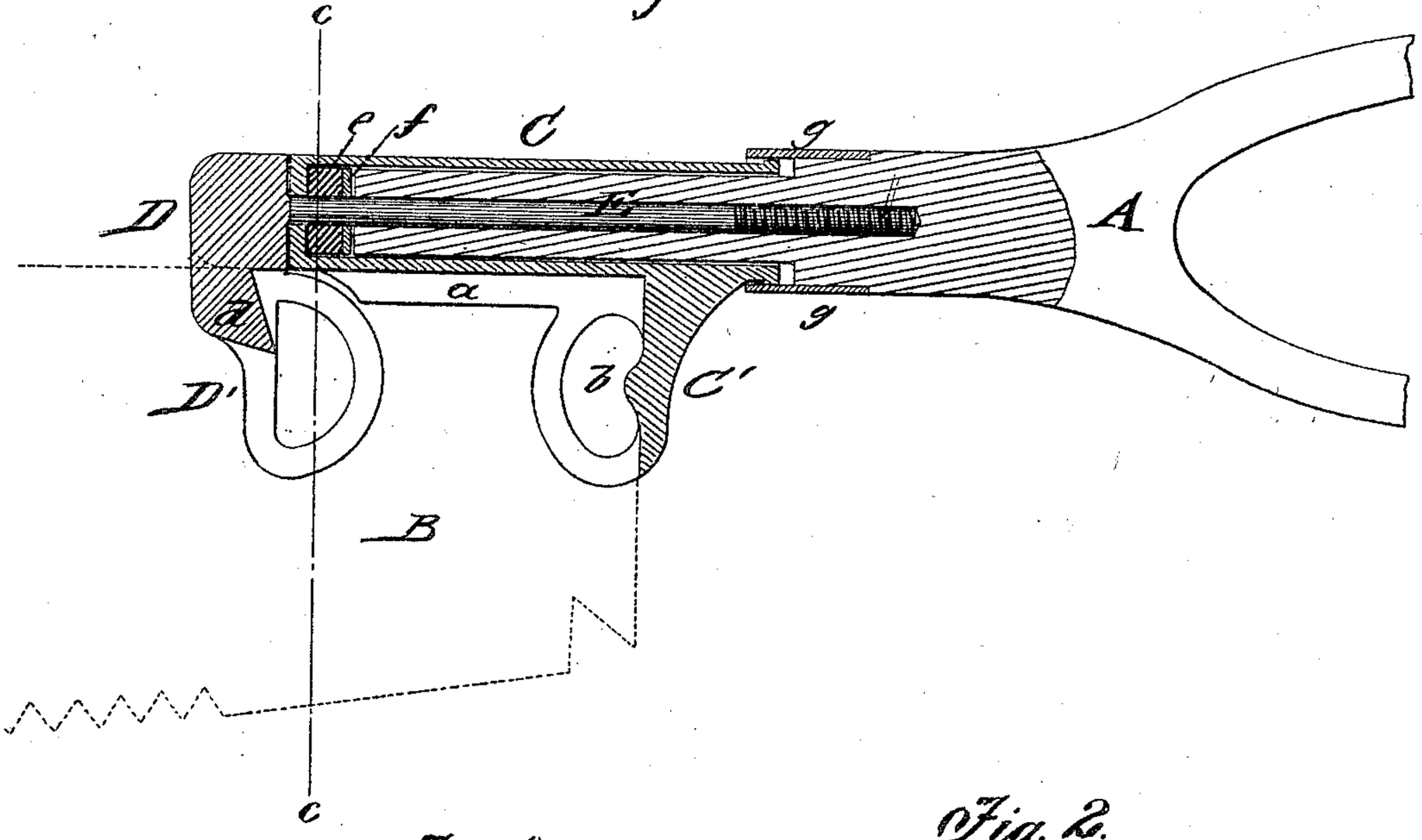


Fig. 3.

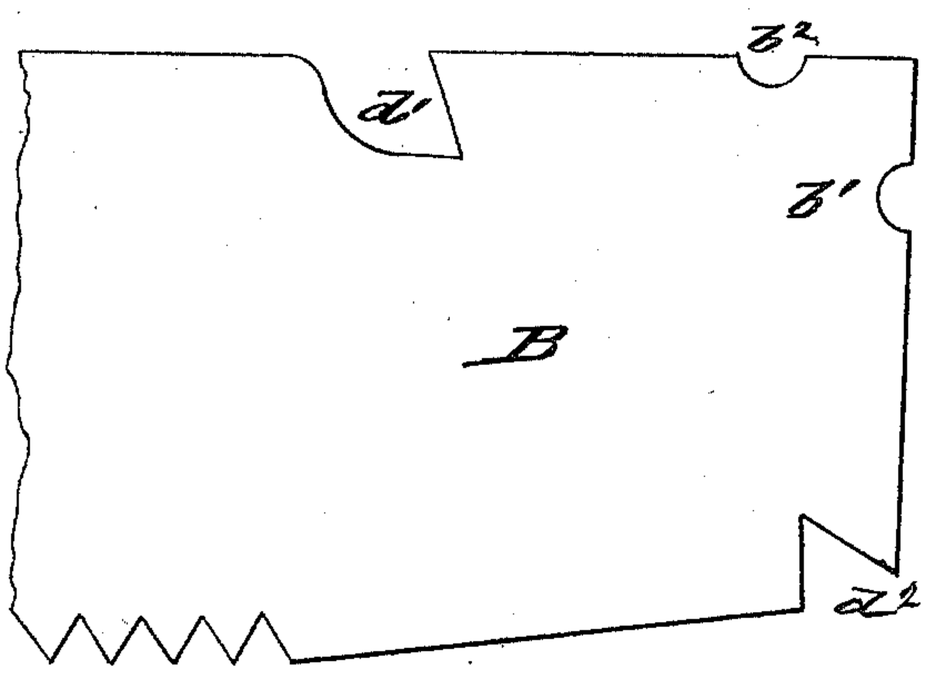
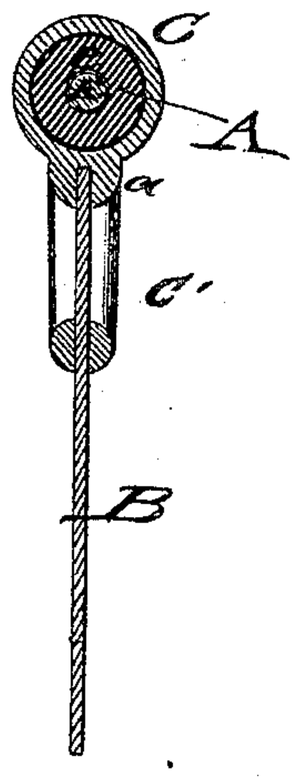


Fig. 2.



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UNITED STATES PATENT OFFICE.

SAMUEL BOONE, OF LA GRO, INDIANA.

IMPROVEMENT IN CROSSCUT-SAW HANDLES.

Specification forming part of Letters Patent No. **172,381**, dated January 18, 1876; application filed November 27, 1875.

To all whom it may concern:

Be it known that I, SAMUEL BOONE, of La Gro, in the county of Wabash and State of Indiana, have invented a new and useful Improvement in Crosscut-Saw Handles, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section of my improved saw-handle as attached to the saw. Fig. 2 is a vertical transverse section of the same on the line *c c*, Fig. 1, and Fig. 3 a side view of the saw, showing recesses for attaching handles.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved mode of attaching saw-handles to the saw; and it consists of a ferrule, with a perforated rubber block in the closed end thereof, a saw-binding clamp-piece, which is securely attached to the handle by a binding-block, with saw-fastening clamps, and a shank with threaded end that extends into a perforation of the handle to be screwed thereon. A rubber cushion and washer at the bottom of the ferrule produces the secure attachment of handle to ferrule and block. The saw is recessed both at the back and side edge to apply the handle longitudinally, or at right angles to the saw.

In the drawing, A represents the handle, which is made of any suitable shape to be attached to the saw B by a ferrule, C, and locking-block D at the end of the ferrule. The saw-handle A is fitted into the cylindrical ferrule C, which is cast or otherwise made with a slotted clamp-piece, C′, and longitudinal flange *a* that bind on the rear edge of the saw. A projection, *b*, of the clamp-piece C′ fits into a corresponding recess, b^1, at the side edge of the saw, and produces thereby the rigid position of the ferrule on the end of the saw. The binding-block D is provided with a similar slotted clamp-piece, D′, that enters by a central angular lip or projection, *d*, into a corresponding recess, d^1, at the rear or top edge of the saw. Recesses b^2 and d^2 are furthermore cut into the side and top edges of the saw, at the same distance, respectively, from the corner of the same as the recesses b^1 and d^1, for the purpose of applying the handle in longitudinal direction, or at right angles to the saw, as the same is to be used for horizontal or vertical sawing. The binding-block C is provided with a shank, F, that passes through a central perforation of ferrule, C, longitudinally into the handle which is screwed on the threaded end of the shank, to secure thereby the rigid locking of handle, ferrule, and block. A rubber cushion, *e*, and washer *f* are interposed between the end of the handle and bottom of the ferrule, for the purpose of holding the handle firmly in position, after having been screwed tightly on the shank, and preventing any shaking or looseness of the handle. A smaller ferrule, *g*, extends over the end of the ferrule C at the point where the handle enters the same, and gives additional strength at the point to which also the screw-shank extends inside of the handle. By screwing the handle tightly on the shank the block D locks not only handle, ferrule, and block firmly together, but secures, at the same time, the clamp-pieces rigidly to the end of the saw, producing thereby a strong and effective fastening of the handle to the saw in either direction.

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

The combination of handle A and rubber cushion *e* with the ferrule C, having slotted clamp-flange C′ *a b*, and the binding-block D, having slotted clamp D′, lip *d*, and threaded shank E, all constructed and arranged as and for the purpose specified.

SAMUEL BOONE.

Witnesses:

MICHAEL AGAN,

H. W. MCNOWN.