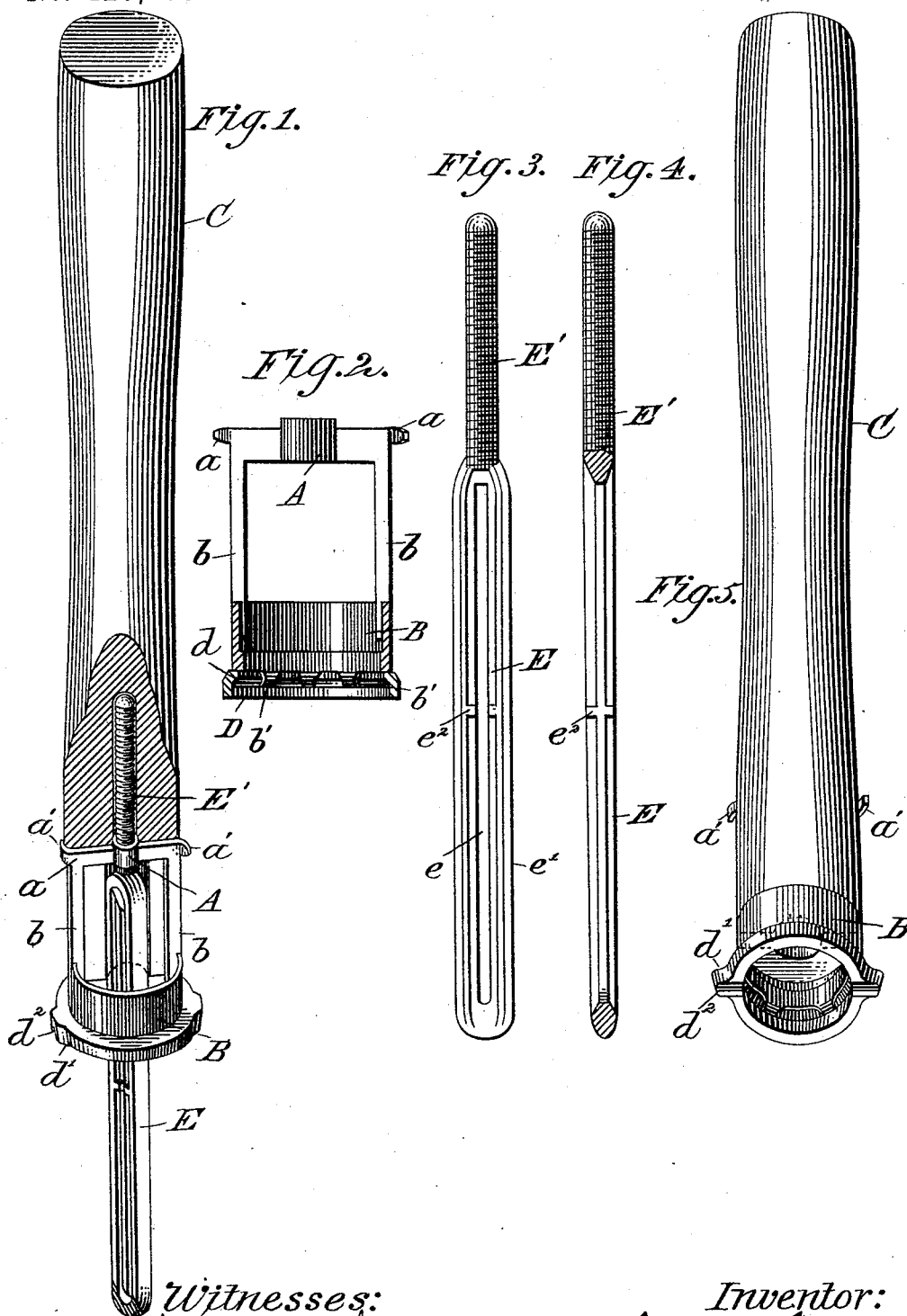


(No Model.)

M. E. TRUE.
CROSSCUT SAW HANDLE.

No. 420,479.

Patented Feb. 4, 1890.



Witnesses:
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UNITED STATES PATENT OFFICE.

MOSES E. TRUE, OF BATAVIA, NEW YORK.

CROSSCUT-SAW HANDLE.

SPECIFICATION forming part of Letters Patent No. 420,479, dated February 4, 1890.

Application filed May 10, 1889. Serial No. 310,324. (No model.)

To all whom it may concern:

Be it known that I, MOSES E. TRUE, a citizen of the United States, residing at Batavia, in the county of Genesee and State of New York, have invented a new and useful Improvement in Crosscut-Saw Handles, of which the following is a specification.

My invention relates to improvements in crosscut-saw handles, in which a slotted clamping-bolt screw-threaded upon its upper end is used in conjunction with a corresponding screw-threaded nut made fast to the wooden handle; and the objects of the improvement are to provide a cheap and durable handle readily attached to or detached from the saw-blade, yet firmly secured to the blade when in practical use. These objects are attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the handle complete, with a portion in cross-section, showing the manner of securing the parts in a working position. Fig. 2 is a longitudinal sectional view of the nut, ferrule, and swiveled washer detached from the handle. Fig. 3 is a face view of the clamping-bolt, showing the slot in the saw for the insertion of the saw-blade. Fig. 4 is a longitudinal view taken centrally through the slot of the clamping-bolt, showing the several strengthening-ribs for lessening the weight of metal, and Fig. 5 is an end perspective of the complete handle with the clamp-bolt removed.

Similar letters refer to similar parts throughout the several views.

The nut A, having the lateral flanges *a*, is connected to the ferrule B by the longitudinal bars *b*, thus forming a single piece of metal, which is preferably made of malleable cast-iron. To secure this nut A to the wood handle C after the longitudinal slots *c* have been made in the handle, and within which slots the bars *b*, as well as the nut-flanges, are placed, the spurs *a'* upon each end of the nut-flanges *a* are (by the use of a proper tool) turned over and made to clinch into the solid wood, so that the nut cannot be withdrawn from the wood handle except by breakage of some of the parts. At the lower edge of the ferrule is a series of spurs *b'*, which are of sufficient length to bend over the annular ribs *d* upon the upper edge of the washer D. This

washer D is loosely attached to the ferrule by means of the retaining-spurs *b'*, so that the ferrule and the attached handle will freely revolve, while the washer remains stationary, for the purpose of tightening the handle upon the saw without displacement of the washer from its contact with the blade. The washer D has upon its periphery and in line with the axial center of the washer ears *d'*, upon the lower edge of which, in the line of their length, are notches *d''*, within which notches the back of the saw-blade enters, thus preventing the washer from turning with the handle when the saw is being attached or detached from the said saw-blade.

E is the saw-clamping bolt, having a longitudinal slot *e* of sufficient length to receive the end of the saw-blade, to which it may be attached. This slot does not extend the entire length of the bolt, but enough of the solid metal is left at the lower end of the same to prevent breakage when in practical use upon the saw-blade. The upper end of the clamp-bolt is provided with a tang *E'*, which is screw-threaded to correspond with the nut A, and within which it enters.

To save metal without diminishing the strength, as well as to facilitate the molding of this clamp-bolt, (which is preferably made of malleable iron,) I longitudinally recess the bolt upon either side, so that only a thin central lateral web is left next to the saw-blade, thus forming ribs *e'* upon the outer edges of the bolt, which gives rigidity and strength to the bolt with a minimum amount of metal. If desired, lateral ribs *e''* may be made upon either side of the bolt. A hole for the insertion of the bolt is made in the end of the wood handle of sufficient depth and dimensions to permit the bolt-tang to pass beyond the nut (when the parts are in position) to accommodate the handle to wide or narrow saw-blades. In placing the handle upon the blade the clamp-bolt by its slot is made to pass over the end of the blade sufficiently far to form a bearing for both of the notched washer-ears which rest upon the back of the saw, the lower end of the bolt below the slot being inserted into a notch made in the tooth edge of the saw, when the handle, with the attached nut, is turned (the bolt and washer remaining stationary) until by means of the screw-

threaded bolt the handle is firmly clasped to the blade and ready for use. By reversing the movement of the handle the same can be removed from the saw-blade when desired.

5 Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with a clamp-bolt, of the wooden handle having the bolt-hole and lat-

eral slot in the lower end, the flanged nut, the ferrule, the longitudinal connecting-bars, and the spurs a' , substantially as described, and for the purpose set forth.

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