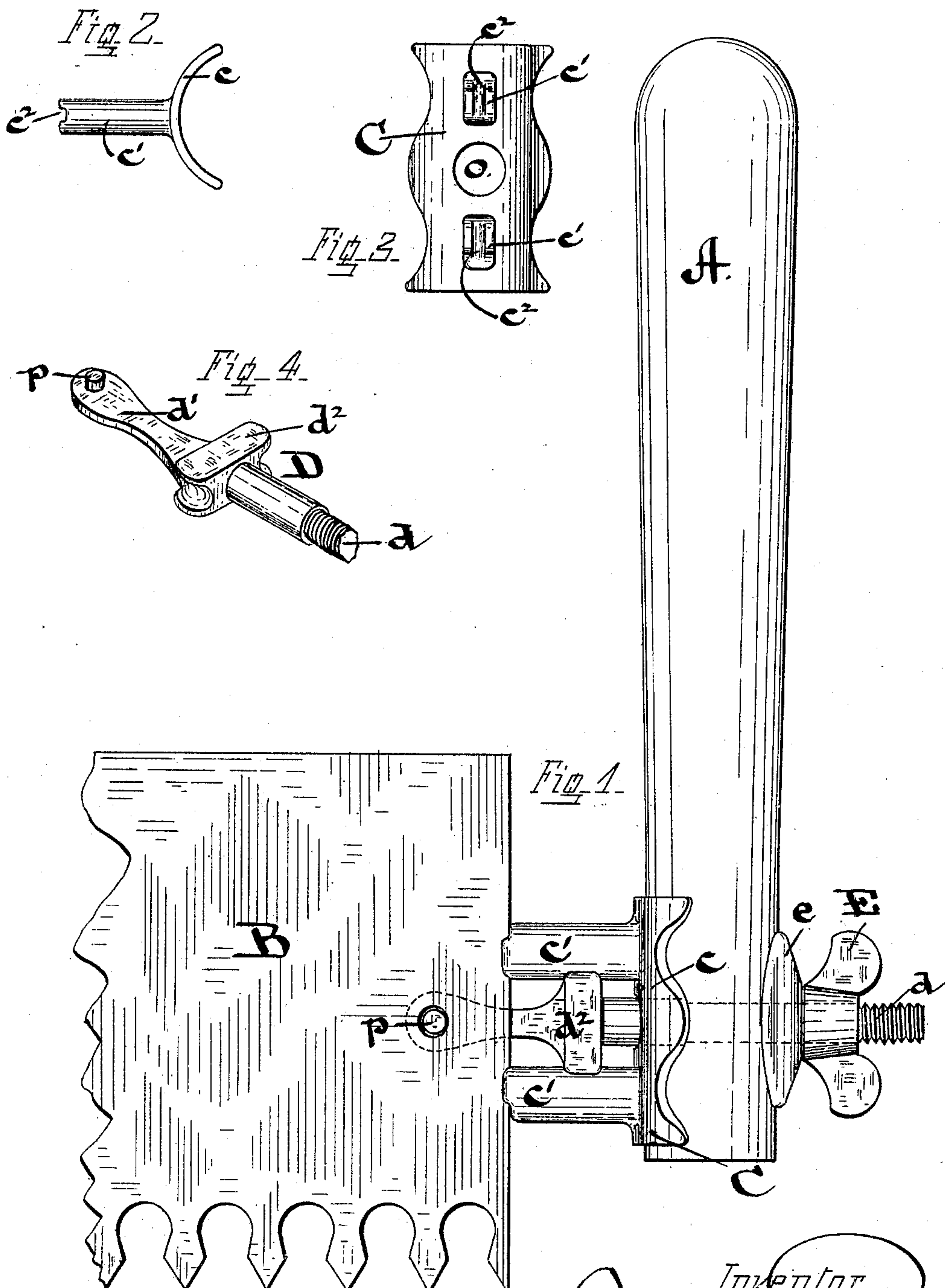


(No Model.)

J. NEIMEYER.
SAW HANDLE.

No. 277,502.

Patented May 15, 1883.



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UNITED STATES PATENT OFFICE.

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SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 277,502, dated May 15, 1883.

Application filed February 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN NEIMEYER, a citizen of the United States, residing at Trenton, Butler county, Ohio, have invented new and useful Improvements in Fastenings for Cross-cut-Saw Handles, of which the following is a specification.

My invention relates to devices for securing handles to crosscut-saws, its object being to improve the same in several particulars, as hereinafter pointed out; and to this end it consists in the construction and arrangement of an abutment-piece against which the saw-blade is securely held, and a pin-bolt guided upon the abutment and by its operation holding the saw against the abutments and the abutment-piece to the handle, all as hereinafter more fully described, and constituting an efficient, economical, convenient, and durable fastening device adapted to any of the saws in common use.

My invention is illustrated in the accompanying drawings, in which Figure 1 is a side elevation of a saw-handle and portion of a saw-blade, showing my improved connecting devices in position for securing the saw-blade to the handle. Fig. 2 is an end view of the abutment-piece. Fig. 3 is a plan or front view of the abutment-piece, and Fig. 4 is a perspective view of the pin-bolt detached and with its nut and washer removed.

In the drawings, to which reference is made by way of illustrating more clearly the following description, A designates the handle, and B the saw-blade to which my improvement is applied; C, the abutment-piece; D, the pin-bolt, and E the thumb-nut by which all parts are held together and the saw connected to the handle for operation.

The abutment-piece consists of a base, *c*, curved to seat upon the cylindrical surface of the handle A, and two lugs or columnar abutments, *c'* *c'*, rising parallel to each other from the base *c*, at right angles with its general length, sufficiently to accommodate the hand of the operator behind the saw-blade when the latter is resting against the ends of the abutments. The operator is thus enabled to apply his muscular force more nearly in the line of the saw-teeth instead of above the upper edge of the saw-blade, as is usual in devices of this

character. The end faces of the abutments are grooved in the same axial line, as shown at *c*², Fig. 3, to accommodate the end of the saw and prevent its lateral displacement.

The pin-bolt D is formed in three distinct portions—a screw end, *d*, a flattened extension, *d'*, provided with a short stud, *p*, rising out of the flat face *d'* to engage the saw, and a cross-head, *d*², intermediate between the flattened extension and the screw. The flat face of the extension is so arranged that the saw-blade, when resting upon it and engaging the stud *p*, shall be in the axial plane of the screw *d*, extended rearward. The cross-head is a lateral enlargement, whose end faces are provided with grooves axially parallel with each other and with the screw *d*, and adapted to fit and slide between and upon the abutments *c'* *c'*.

The saw-blade is attached by placing flatwise upon the flattened extension *d'*, so that the stud *p* enters through an aperture always provided in the saw-blade, the extension being made of sufficient length to compensate any irregularity there may be in the position of the aperture through the saw-blade with respect to the rear edge of the blade. The pin-bolt is then placed in position, its screw end *d* being inserted through an aperture provided in the base *c* between the abutments of the abutment-piece C, and through a corresponding aperture bored through the handle and its cross-head *d*² between and sliding upon the abutments. The rear edge of the saw-blade being at the same time rested in the grooves *c*² of the abutments, the thumb-nut E is applied upon the projecting end of the screw, and with an interposed washer, *e*, is screwed down against the handle. Continuing its rotation, the pin-bolt is drawn through the handle, and the saw-blade drawn taut and rigidly against the abutments.

I prefer in constructing the device to cast or form a slight groove or depression on the side of the stud *p* nearest the cross-head, as a precaution against lateral displacement of the saw-blade when in operation; but, as the obvious tendency of wear in the use of the device is to create such a groove or depression, I do not deem it a matter of vital importance in the original construction, although preferring it.

It will be observed that the pin-bolt fasten-

ing as thus constructed is reversible—that is, it operates on either side of the saw perfectly; also, that the base or abutment-piece, with the corresponding washer, can be applied to any
5 handle with no further preparation than forming a cylindrical contour at that part and piercing for the bolt, in which respect the improvement upon a cylindrical ferrule is obvious.

I claim as my invention and desire to secure
10 by Letters Patent—

1. In handle-fastenings for crosscut-saws, two parallel abutments rising from a perforated base adapted to seat upon the handle, in combination with a fastening-bolt extending through
15 the perforated base and handle, provided with a cross-head guiding it between and upon the abutments, and an extension beyond the abutments for engaging the saw, and by the oper-

ation of the tightening-nut securing the saw rigidly against the abutments and all parts
20 rigidly to the handle, substantially as set forth.

2. The reversible fastening for securing cross-cut-saws to their handles, embodying the cross-headed pin-bolt, in combination with the parallel abutments having grooves in their end
25 faces for seating the saw-blade, and a tightening-nut upon the projecting end of the bolt, substantially as set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.
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JOHN NEIMEYER.

Witnesses:

L. M. HOSEA,
CHAS. LEIMANN.