E. M. BARTON & J. TRUMP.

SAW HANDLE.

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947,432.

Patented Jan. 25, 1910.

Fig. 4.

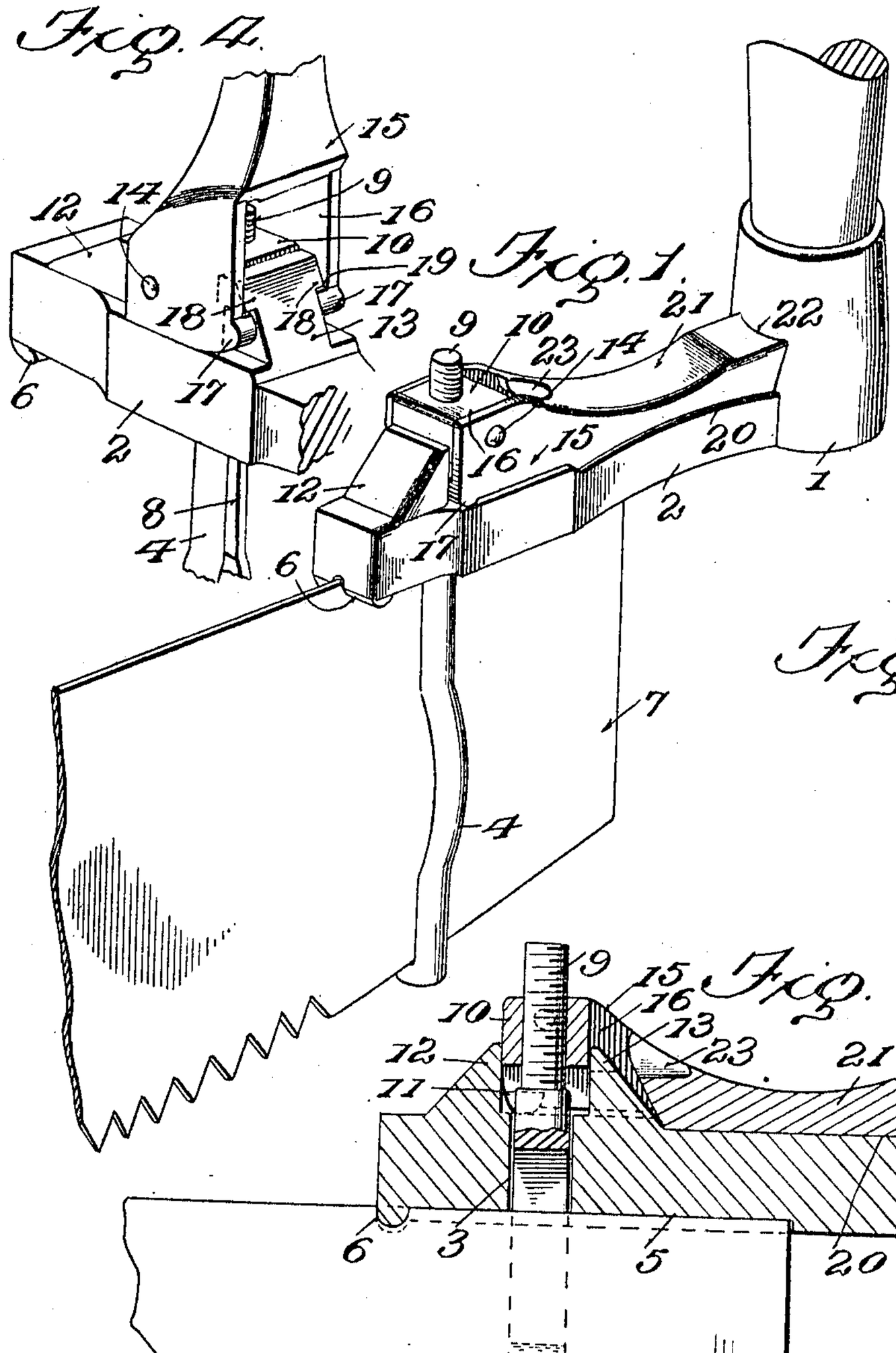

Fig. 1.

Fig. 3.

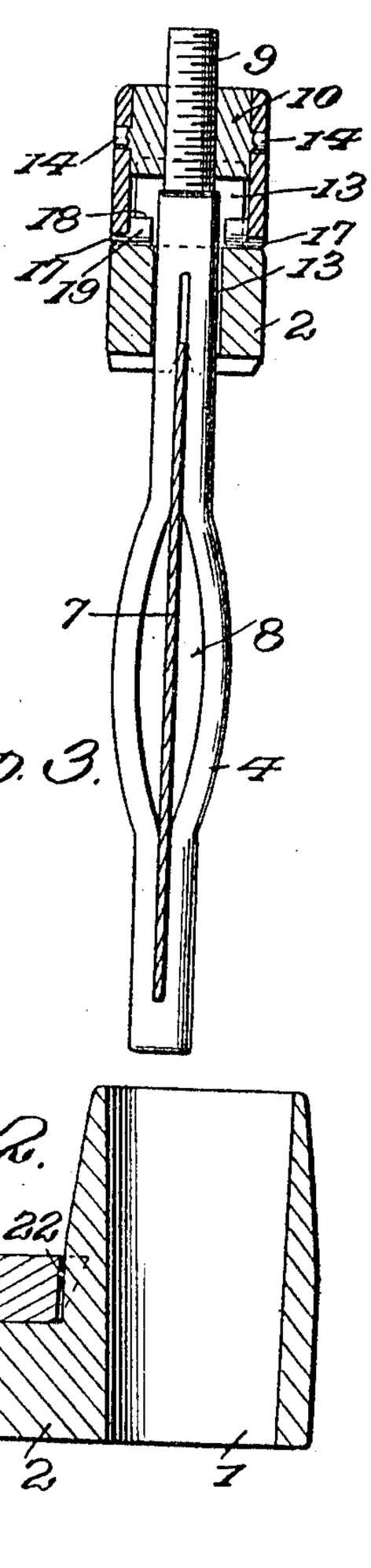

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

ELIJAH M. BARTON AND JONER TRUMP, OF PROMISE, OREGON.

SAW-HANDLE.

947,432. Specification of Letters Patent. Patented Jan. 25, 1910.

Application filed April 29, 1909. Serial No. 492,935.

To all whom it may concern:

Be it known that we, ELIJAH M. BARTON and JONER TRUMP, citizens of the United States, both residing at Promise, in the county of Wallowa and State of Oregon, have invented certain new and useful Improvements in Saw-Handles, of which the following is a specification.

This invention has for its object a cross cut saw handle which is of simple construction and durable and which will operate efficiently to securely hold the saw blade, the parts being so arranged that the blade may be very quickly and easily clamped to the handle, and as rapidly disconnected therefrom.

With this and other objects in view as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combination of the parts that we shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view of a saw handle embodying the improvements of our invention, the blade being shown in place, and the blade and a portion of the handle being broken away; Fig. 2 is a longitudinal sectional view thereof on a larger scale; Fig. 3 is a transverse sectional view, the section being taken substantially on the line of the blade clamping stem; and, Fig. 4 is a fragmentary perspective view illustrating the eccentric locking lever in its raised and inoperative position.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawing, the numeral 1 designates the ferrule of our improved saw handle which is designed to receive the ordinary handle proper and which is preferably formed integrally with the perpendicularly disposed shank 2. The shank 2 is formed at its free end with the customary opening 3 to receive the clamping stem 4, and with a longitudinally extending kerf 5 which extends through a protuberance 6 and in which the upper edge of the saw blade 7 is designed to fit, after being inserted through the usual slot 8 in the clamping stem.

The stem 4 is formed at its upper end with screw threads 9 designed for engagement with the swivel nut 10, the latter being adapted for insertion in the space 11 between the two blocks 12 and 13 that are formed on the upper edge of the shank 2 near one end thereof. The nut 10 is provided at opposite sides with trunnions 14 upon which the bifurcated end of an eccentric lever 15 is mounted. This lever is recessed at its pivoted end as indicated at 16 and is formed at the ends of its fork members with nibs 17 designed to bear and ride upon the upper edge of the shank 2 in order to draw the clamping stem 4 upwardly in the opening 3 to tightly secure the saw blade in place, when the free end of the lever is pressed toward the shank and snaps downwardly into contact therewith.

It is to be particularly noted that the block 13 is formed at opposite sides with downwardly facing shoulders 18 and that the nibs 17 are extended inwardly to form retaining lugs 19 arranged to engage said shoulders when the lever is swung to the open or releasing position, but which move out of engagement with said shoulders when the lever is swung over to the locked position. By this means, it is evident that when the lever is up and the pressure or tension upon the clamping stem 4 is released, the lever will be secured to the shank 2, thereby simplifying the operation of adjusting the same in the nut 10 preparatory to the locking or tensioning operation.

From the foregoing description in connection with the accompanying drawing, we believe that the operation of our improved saw handle is obvious. In the practical use of the device the saw blade 7 is inserted in the slot 8 of the clamping stem 4 in the released position of the latter with the nuts 10 resting in the bottom of the space between the blocks 12 and 13 and with the lever 15 disposed perpendicularly to the shank 2. After the stem 4 has been adjusted to the proper position relative to the nut 10, according to the particular width of saw blade that is used and after the saw blade has been inserted in the slot of the stem as before described, the lever is snapped downwardly so as to produce a cam action upon the nut and thereby draw the stem with considerable tension upwardly in the opening 3 holding it under

such tension and thereby securely maintaining a rigid connection between the saw blade and handle.

Preferably the upper edge of the shank 2 is recessed as indicated at 20, the handle 21 of the lever fitting within said recess when the lever is in an operative position, and the upper end of said handle is formed with a recess as indicated at 22 for engagement with the tapering and circular exterior wall of the ferrule 1. Preferably also, the handle 21 of the lever 15 is recessed as at 23 in its upper face, contiguous to the bifurcated portion of the lever, so as to provide a clearance space for the threaded upper end of the clamping stem 4 when the latter is adjusted to any considerable extent upwardly within the nut 10.

Having thus described the invention what is claimed as new is:

1. A saw handle, embodying a shank formed with an opening extending therethrough and on its upper edge with spaced blocks at opposite sides of said opening, one of said blocks being formed at opposite sides with downwardly facing shoulders, a blade clamping stem working through said opening, a nut screwing on said stem and adapted to fit between the said blocks, and a lever pivoted to said nut and adapted to bear with a clamping action on the upper edge of the shank, the lever being designed to embrace the block which is formed with the downwardly facing shoulders and formed with lugs arranged to engage said shoulders.

2. A saw handle, embodying a shank formed with an opening extended therethrough, a clamping stem working through said opening, a nut having an adjustable connection with said stem above said opening, the shank being formed with a block at one side of said opening, an eccentric lever fulcrumed on said nut and designed to embrace the block upon the movement of the lever in one direction, the said lever and block being formed with interlocking shoulders and lugs arranged to coact upon the movement of the lever in the opposite direction.

3. A saw clamp, embodying a shank formed with an opening extending therethrough and with a block at one side of said opening, the said block being formed with downwardly facing shoulders, a clamping stem working through said opening, a nut arranged for adjustable connection with said stem, and an eccentric lever connected to said nut and formed with lugs designed to engage said shoulders upon the movement of said lever toward releasing position.

4. A saw handle, embodying a shank having an opening extending therethrough, a clamping stem working through said opening, a nut working on the upper end of the stem, the same being formed on its upper edge with spaced blocks on opposite sides of said opening, a lever pivotally connected to said nut and designed to straddle one of said blocks, the said blocks being formed with downwardly facing shoulders and the lever being formed with nibs designed to bear upon the upper edge of the shank, the nibs being extended inwardly to form lugs arranged to engage said shoulders upon the movement of the lever toward the releasing position.

In testimony whereof we affix our signatures in presence of two witnesses.

ELIJAH M. BARTON. [L. S.]
JONER TRUMP. [L. S.]

Witnesses:
BENJAMIN M. RAMSWELL,
JACOB L. WORKMAN.