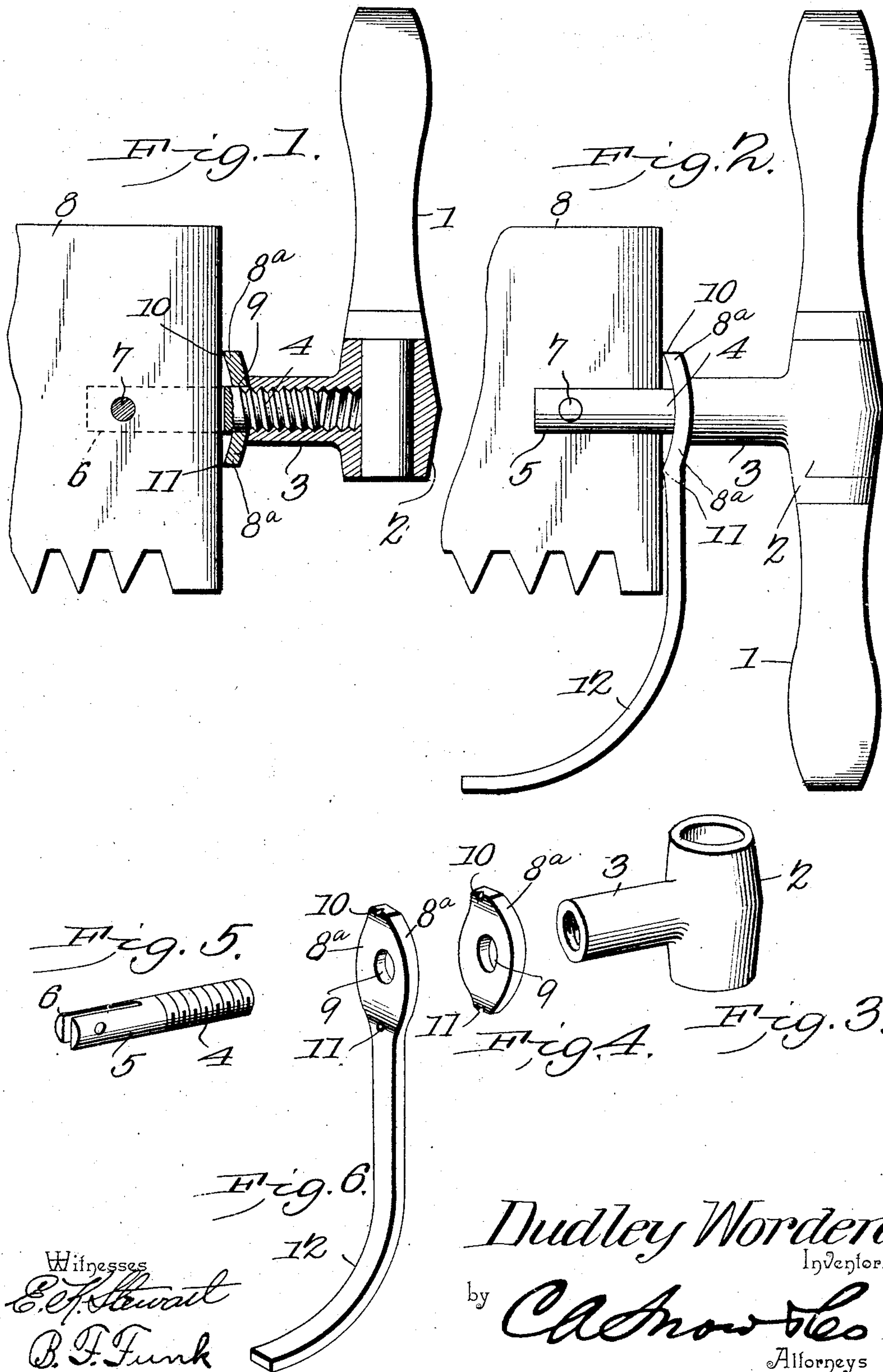


No. 786,335.

PATENTED APR. 4, 1905.

D. WORDEN.
SAW HANDLE.

APPLICATION FILED DEC. 10, 1903. RENEWED MAR. 1, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

DUDLEY WORDEN, OF WHATCOM, WASHINGTON, ASSIGNOR OF ONE-HALF
TO EDWIN B. PHELPS, OF WHATCOM, WASHINGTON.

SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 786,335, dated April 4, 1905.

Application filed December 10, 1903. Renewed March 1, 1905. Serial No. 247,943.

To all whom it may concern:

Be it known that I, DUDLEY WORDEN, a citizen of the United States, residing at Whatcom, in the county of Whatcom and State of Washington, have invented a new and useful Saw-Handle, of which the following is a specification.

This invention relates to saw-handle fastenings; and one of the objects thereof is to provide means for efficiently and expeditiously attaching the saw to its handle.

A further object is to provide an efficient means for holding the saw rigid with relation to the handle.

A further object is to provide a guard to protect the operator from coming into contact with the saw-teeth.

Other objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims, it being understood that changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a view, partly in elevation and partly in section, of the invention applied. Fig. 2 is a side elevation of a slightly-modified form of saw-handle fastener. Fig. 3 is a detail perspective view of the handle-sleeve and the internally-threaded socket. Fig. 4 is a detail perspective view of the tension-plate. Fig. 5 is a detail perspective view of the saw-engaging screw, and Fig. 6 is a detail perspective view of a slightly-modified form of tension device.

Referring now to the drawings, 1 designates the handle, on which is fitted a sleeve 2. An internally-threaded socket 3 projects from the sleeve, and it is provided for the purpose of receiving a saw-engaging shank 4, longitudinally movable in the socket by means of the exterior threads thereof, which engage the interior ones in the socket 3. This shank is bifurcated at its saw-engaging end, so that the parallel arms 5 and 6 will be on either side of

the saw, and these arms are fastened to the saw by a bolt or rivet 7.

In order to prevent the saw from accidentally turning on the handle, I provide a tension device which is interposed between the end of the socket 3 and the end of the saw 8. This tension device is illustrated as comprising a concavo-convex or vertically-curved plate 8ⁿ, having an inherent yielding tendency and provided with an opening 9, through which the threaded shank projects. The plate is disposed upon the shank, and the saw-engaging upper and lower edges 10 and 11 are grooved or notched for the reception of the edges of the saw. Thus when the socket is screwed up on the shank the resiliency of the plate will be exerted not only against the socket, but also against two points of the rear edge of the saw above and below said socket. Of course it will be understood that the tighter the socket is screwed up on the shank the more pressure there will be exerted between the two points. In the modified form illustrated in Fig. 2 one terminal of the plate is provided with a depending curved guard-finger 12, which will extend beyond the saw-teeth to protect the operator. The latter form will be employed in "bucking," while the first form described will preferably be employed in felling trees.

What I claim, and desire to secure by Letters Patent, is—

1. A handle-fastener having a socket, a saw-clamping shank longitudinally movable in the socket, and a curved resilient plate mounted upon the shank and having notched edges yieldably engaging the saw.

2. A handle-fastener having a socket, a saw-clamping shank longitudinally movable in said socket, and a curved resilient plate intermediately bearing against the socket and having saw-engaging terminals.

3. A saw-handle fastener comprising a handle, a socket secured to the handle, and a movable saw-engaging device carried by the socket and including a terminal resilient plate having its resilient edges placed in contact with the rear edge of the saw.

4. In a saw-handle fastener, a saw, a handle, and a yielding plate interposed between the saw and handle and having a terminally-disposed guard-finger projecting from the plate.
- 5 5. A tension device for saw-handles, comprising a concavo-convex plate having an inherent yielding tendency and provided with a terminally-disposed guard-finger.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 10 the presence of two witnesses.

DUDLEY WORDEN.

Witnesses:

A. H. WRIGHT,
THOS. TYLER.