

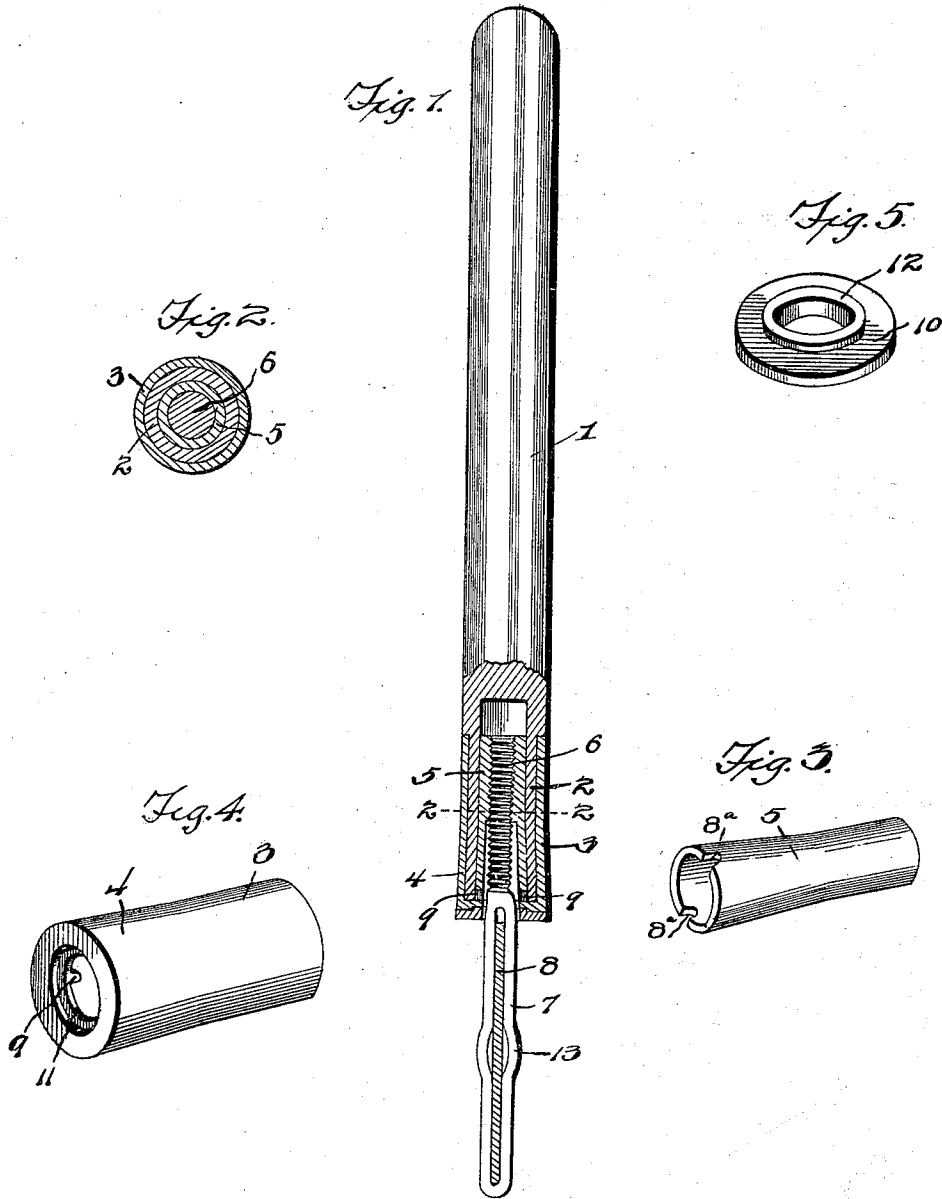
No. 638,268.

Patented Dec. 5, 1899.

E. B. OLSON.
SAW HANDLE.

(Application filed May 23, 1899.)

(No Model.)



Witnesses
Ralph Shepard
H. J. Riley

By his Attorneys.

Ezra B. Olson inventor

C. Snow & Co.

UNITED STATES PATENT OFFICE.

EZRA B. OLSON, OF OLEONA, PENNSYLVANIA, ASSIGNOR TO THE SIMONDS MANUFACTURING COMPANY, OF FITCHBURG, MASSACHUSETTS.

SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 638,268, dated December 5, 1899.

Application filed May 23, 1899. Serial No. 717,939. (No model.)

To all whom it may concern:

Be it known that I, EZRA B. OLSON, a citizen of the United States, residing at Oleona, in the county of Potter and State of Pennsylvania, have invented a new and useful Saw-Handle, of which the following is a specification.

The invention relates to improvements in saw-handles.

16 The object of the present invention is to improve the construction of saw-handles and to provide a simple, inexpensive, and efficient device for securing wooden handles to cross-cut-saws and to enable such handles to be readily applied to and removed from a saw-blade and adjusted to suit the width of the same.

20 A further object of the invention is to increase the strength of the construction by obviating the necessity of slotting the wooden handle to secure the nut, which engages the yoke-bar, rigidly with the same.

25 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

30 In the drawings, Figure 1 is a longitudinal sectional view of a saw-handle constructed in accordance with this invention. Fig. 2 is a transverse sectional view on line 2 2 of Fig. 1. Fig. 3 is a detail perspective view of the nut. Fig. 4 is a detail view of the ferrule. Fig. 5 is a similar view of the washer.

35 Like numerals of reference designate corresponding parts in all the figures of the drawings.

40 1 designates a wooden saw-handle having its lower end 2 reduced to receive a ferrule 3, which has its lower or outer end 4 slightly flared or tapered inwardly, and the reduced portion or end 2 is expanded within the flared end of the ferrule by a tapering nut 5, which forms a wedge. The tapering nut 5 consists of a sleeve provided at its inner smaller end with interior screw-threads and adapted to engage a threaded portion 6 of a yoke-bar 7, which is provided with a slot or opening to receive a saw-blade 8, and by rotating the handle it is carried into and out of engage-

ment with the said saw-blade, as will be readily understood.

45 In order to secure the nut rigid with the wooden handle and at the same time avoid weakening the latter by slotting the reduced portion 2 for the reception of wings or projecting portions, the nut is provided at its outer end with notches 8, which receive inwardly-extending lugs 9, formed integral with the outer end of the ferrule and located at opposite sides of the opening thereof for the passage of the yoke-bar. The integral lugs by fitting in the recesses of the tapering nut detachably interlock the parts, and as the nut expands the wooden handle within the ferrule it is rigidly connected with the same.

50 The ferrule is provided at its outer end with an inwardly-extending annular flange forming a seat for a washer 10 and having an annular recess 11 at its outer face for the reception of a corresponding annular flange 12 of the washer 10. The annular flange 12, which is formed integral with the washer 10, is located on the inner face thereof, and it serves to center the washer on the ferrule. The washer is retained on the yoke-bar by a stop consisting of projecting portions 13, preferably formed by offsetting the yoke-bar at opposite sides of the slot or opening for the reception of the saw-blade. The washer engages the saw-blade and when worn may be readily renewed, and it prevents the saw-blade from cutting into the ferrule.

55 The invention has the following advantages: The device for securing a wooden saw-handle to a saw-blade is exceedingly simple and inexpensive in construction and is capable of being readily operated to clamp and release the blade to permit the handle to be applied to and removed therefrom. The tapering nut by being interlocked with the ferrule obviates the necessity of slotting, and thereby weakening the reduced portion of the wooden handle, and as it expands the handle within the flared portion of the ferrule it rigidly connects the parts and it effectually prevents the handle from pulling out of the ferrule.

60 Changes in the form, proportion, size, and the minor details of construction within the

scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What is claimed is—

- 5 1. A device of the class described comprising a ferrule provided at its outer end with an inwardly-extending annular flange having inwardly-projecting lugs at its inner edge spaced from the inner face of the ferrule,
 10 a handle fitting within the ferrule and provided with a socket and abutting against the annular flange at a point between the lugs and the ferrule, a nut arranged within the socket of the handle and fitting against the
 15 annular flange and provided with notches or recesses receiving the said lugs, whereby the nut is rigidly interlocked with the said ferrule, and a yoke-bar engaging the nut, substantially as described.
- 20 2. A device of the class described comprising a ferrule having its outer end enlarged, a saw-handle fitting within the ferrule, a nut interlocked with the ferrule and held against rotation thereon, said nut being
 25 flared and expanding the saw-handle within the enlarged portion of the ferrule, and a yoke-bar engaging the nut, substantially as described.
- 30 3. A device of the class described comprising a ferrule having its outer portion en-

larged and provided with an interior lug, a saw-handle fitting within the ferrule, a nut having a recess to receive the said lug, whereby it is interlocked with the ferrule and is held against rotation thereon, said nut being
 35 tapered and expanding the handle within the enlarged portion of the ferrule, and a yoke-bar engaging the nut, substantially as described.

4. A device of the class described comprising a ferrule having an enlarged outer
 40 portion and provided with an interior lug, and having an annular recess at its outer end, a handle fitting within the ferrule, a nut having a recess to receive the said lug and
 45 provided with an outer tapered portion expanding the handle within the ferrule, a yoke-bar engaging the nut, and a washer arranged on the yoke-bar and provided at its
 50 inner face with an annular flange fitting within the recess of the ferrule, substantially as described.

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

EZRA B. OLSON.

Witnesses:

RUDOLPH C. STROEB.
 ALBERT BRAUN.