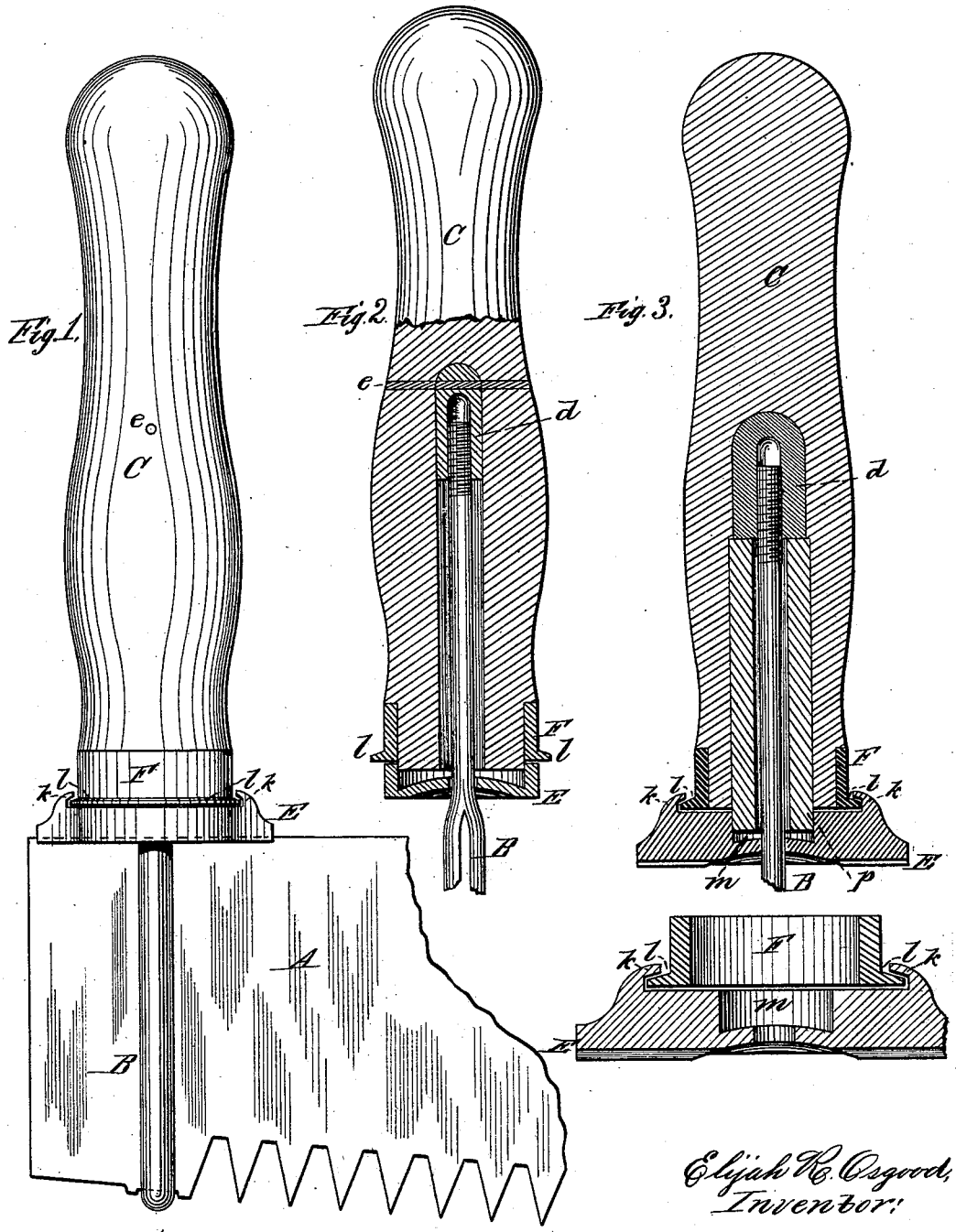
E. R. OSGOOD.
Saw-Handle.

No. 212,396. Patented Feb. 18, 1879.



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UNITED STATES PATENT OFFICE.

ELIJAH R. OSGOOD, OF COLUMBUS, OHIO.

IMPROVEMENT IN SAW-HANDLES.

Specification forming part of Letters Patent No. **212,396,** dated February 18, 1879; application filed July 17, 1878.

To all whom it may concern:

Be it known that I, ELIJAH R. OSGOOD, of Columbus, county of Franklin, and State of Ohio, have invented certain new and useful Improvements in Handles for Crosscut-Saws, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is an elevation of my improved handle, a fragment of the saw being shown as clamped therein. Fig. 2 is a partial section and elevation, showing the method of attaching the nut to the handle; and Fig. 3 is a similar view, showing a modification of the means illustrated in Fig. 2. Fig. 4 is an axial section of the ferrule and movable washer detached from the handle proper.

Like letters in all the figures indicate corresponding parts.

My invention has relation to that class of handles wherein the saw is drawn firmly against a washer on the adjacent end of the handle by means of a slotted bolt made to operate in a nut secured within said handle; and the object of the invention is to so locate and secure the nut that it cannot be displaced by any ordinary use of the device, and to provide a simple, cheap, and effective means of applying the movable washer upon the ferrule, so that it cannot be accidentally displaced.

To accomplish all of this the invention consists in certain peculiarities of construction and combinations or arrangements of parts, all of which will be hereinafter first fully described, and then pointed out in the claims.

A is the saw, the end of which is encompassed by the slotted bolt B, which is received by a narrow recess, as at *a*. The handle C is perforated to receive bolt B, and the nut *d* is secured within the handle at the proper distance above the lower end. To effectually secure this nut, so that it will be immovable within the handle and not liable to be displaced, I form a projection thereon, above the screw-threaded portion, and this projection I perforate in a direction at right angles to the axis of the nut. The nut being properly located, I secure it in its place by passing a pin, *e*, through the material of the handle and through the aforesaid perforation. The ends of the pin being made to conform to the exterior surface of the handle, it will be found to afford the requisite hold for the nut without interfering in any way with the use of the device.

By simply turning the handle the saw is drawn up tightly against the lower face of washer E, which is scored out or grooved to fit upon the edge of the saw, as plainly indicated. In order to conform properly to the location of the saw, this washer must be capable of moving independently of the handle, and should be secured thereto by such means as will prevent its separation when the handle is not coupled to the saw. To provide for this, I turn or otherwise form the annular bead or flange *l* upon the ferrule F and the lugs *k* upon the washer E. The washer is, by means of these lugs, capable of being quickly and easily attached by simply bending them over the flange, as plainly shown. The coupling being exterior to the ferrule, the connection can be made without the use of special tools, and with much greater ease than could be done if otherwise located or formed.

The washer E is turned out, as at *m*, to fit over the projecting end of plug *p*, which is glued in after the nut is properly located, as in the modification shown at Fig. 3. This forms an interior bearing for the washer, sufficient to insure accuracy of movement or to prevent wabbling on the ferrule. The washer and ferrule may be used, as in Fig. 3, without the pin being applied to the nut, or these parts may be used, as in Fig. 2, without the application of the plug, since the method adopted for securing the nut has obviously no bearing upon the operation of the improved washer.

When constructed and arranged in accordance with the foregoing description, the improved handle is found to admirably answer the several purposes and objects of the invention, as previously stated.

Having thus fully described my invention, I will add that I am aware that the slotted bolt is not new, and am also aware that the nut for said bolt has been driven into the handle and secured by a hollow plug, as well

as that a washer movable with respect to the ferrule, has heretofore been adopted. In these previous forms of movable washers the washer has been secured by upsetting a thimble within the ferrule, necessitating the turning of a flange within said ferrule. This is difficult and comparatively expensive to manufacture. To these forms I therefore desire it understood that I make no broad claim; but

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

1. In a crosscut-saw handle, the combination, with the ferrule having an integral exterior flange thereon, of the washer grooved to receive the saw, and provided with the lugs which are turned down upon said flange, the two parts being movable with respect to each other, but not separable, and the handle being arranged substantially as shown, so that it may be turned independently of the attached washer and secure the saw at any point, substantially as shown and described.

2. In a crosscut-saw handle, the combination, with the ferrule, of a movable washer secured thereto, as explained, said washer being recessed or hollowed out to accommodate the projecting end of the interior plug, as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

ELIJAH R. OSGOOD.

Witnesses:
J. M. LANE,
JOHN H. SHARP.