

(No Model.)

2 Sheets—Sheet 1.

J. NEIMEYER.  
SAW HANDLE.

No. 480,856.

Patented Aug. 16, 1892.

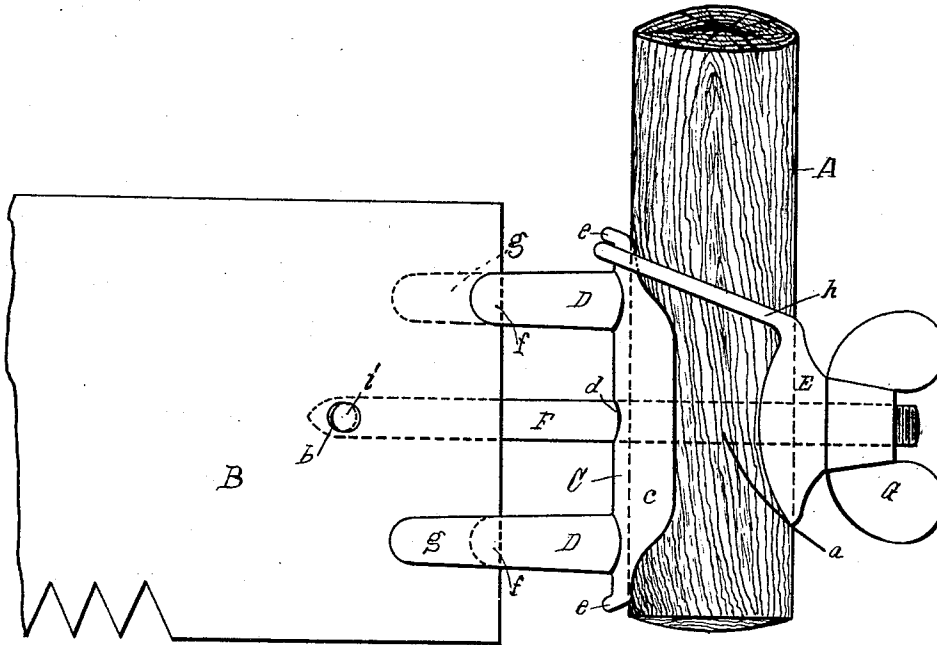


Fig. 1.

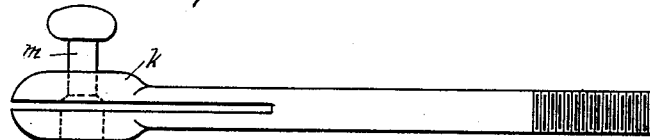


Fig. 2.

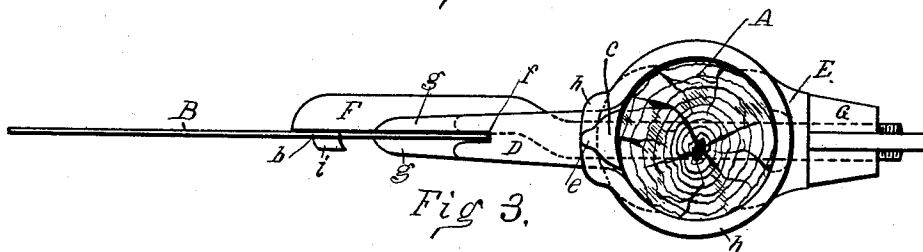


Fig. 3.

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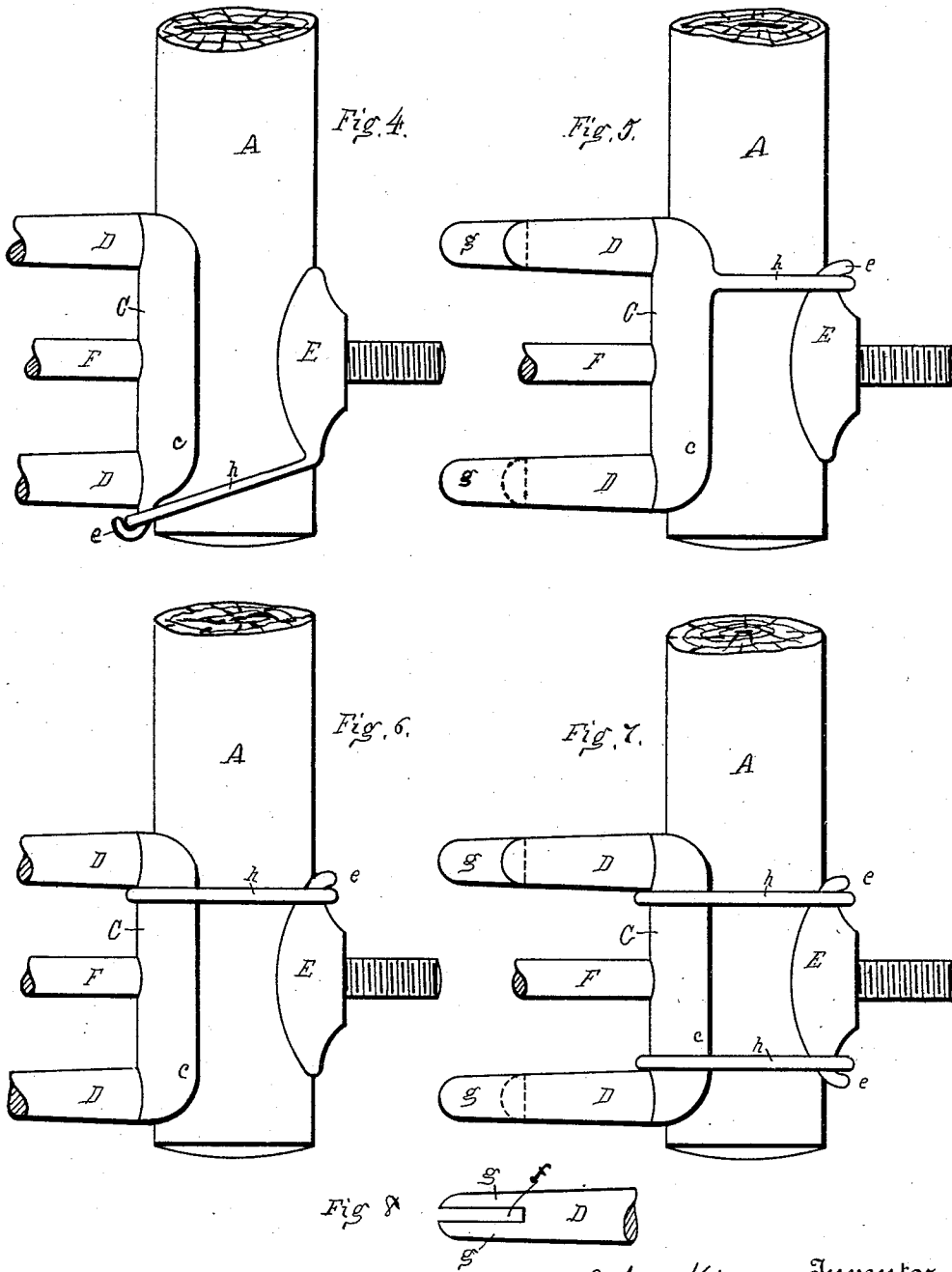
(No Model.)

2 Sheets—Sheet 2.

J. NEIMEYER.  
SAW HANDLE.

No. 480,856.

Patented Aug. 16, 1892.



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Jas. Chapman

John Neimeyer Inventor  
by  
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# UNITED STATES PATENT OFFICE.

JOHN NEIMEYER, OF HAMILTON, OHIO, ASSIGNOR TO DANIEL SHAFER, OF  
SAME PLACE.

## SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 480,856, dated August 16, 1892.

Application filed March 7, 1892. Serial No. 423,969. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN NEIMEYER, of Hamilton, Butler county, Ohio, have invented certain new and useful Improvements in Saw-Handles, of which the following is a specification.

My invention relates to that class of saw-handles adapted to be removably secured to the ends of saws; and the object of my improvement is to prevent lateral deflection of the handle on the saw, to prevent the parts becoming disarranged when the handle is detached, and in construction to combine simplicity, utility, and the facility of being attached and detached. These objects are attained in the following described manner, as illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the lower portion of the handle, showing the manner in which it is secured to the end portion of a saw; Fig. 2, a plan of another form of clamping-bolt; Fig. 3, a plan of the parts as shown in Fig. 1; Fig. 4, a side view having portions broken away and showing the washer and ring in an inverted position on the handle; Fig. 5, a side view with portions broken away, showing the ring integral with the support; Fig. 6, a side view with portions broken away, showing the support and the washer connected by a separate ring; Fig. 7, a side view with portions broken away and showing the support and the washer connected by two separate rings; Fig. 8, a plan of portion of an arm, showing the lips extended on both sides of the notch.

In the drawings, A represents the lower portion of a saw-handle, cylindrical in form. Through its center is a bolt-hole *a*; B, the end portion of a saw perforated at *b* by a small circular hole; C, an intervening mechanism or support adapted to engage with the handle and the end of the saw. It consists of a curved base-plate *c* to conform to the convexity of the handle, being centrally perforated for the passage of the clamping-bolts, as at *d*, its extremities terminating in hooks E, and arms or lugs D, extended vertically from the convex face of said plate. Each of said arms is constructed with a groove or notch *f* across

its end, said notches being in the same straight line to receive the end of the saw. The sides of said arms extend beyond said notches to form lips *g*, adapted, respectively, to bear against opposite sides of the saw.

E is a washer for the clamping-bolt, having its inside face curved to conform to the cylindrical surface of the handle and a boss on its opposite face to resist the pressure of the thumb-nut on said bolt. Ring *h* is integral with said washer and is adapted to encircle the handle and engage with one end of the base-plate of the handle-support under hook *e*.

F is a threaded clamping-bolt adapted to rest against one side of the saw and to engage therewith by means of teat *i* on one side thereof, being inserted through the perforation in the saw at *b*. That portion of the length of said bolt which extends beyond the end of the saw is set over in a line with the center of the saw and is adapted to pass through perforations in the base-plate of the support, the handle, and the washer, to rigidly secure them together and to the end of the saw by means of thumb-nut G on its point.

Fig. 2 illustrates another form of clamping-bolt that may be used instead of bolt F. A portion of its length is bifurcated to form legs *k* and *l* to straddle the end of the saw. A headed steel pin or rivet *m*, adapted to engage with the saw through the perforation at *b*, fits loosely through a hole in leg *k*, and is retained by having its point enlarged. The hole in leg *l* permits the enlarged point of said pin to easily pass through said leg *l*.

In construction the handle-support and the washer, together with its integral ring, are preferably of malleable iron. The clamping-bolt should be of steel to give the teat thereon greater strength. Arms D are preferably of cylindrical form, and grooves *f* may be so deep as to be bounded on each side by lips similar to *g* to receive the end of the saw and prevent lateral movement of the support thereon. When lip *g* extends beyond one side only of groove *f*, the handle is more easily and quickly attached and detached from the saw, and by one lip of each arm extending against opposite sides of the saw the same result is obtained. Hooks *e* may be bent over

the ring to retain it with the support when the handle is removed. The bolt-hole through the washer may be oblong to let the washer adjust its position on handles varying in size.

- 5 The washer may be inverted and the ring encircle the handle near the end and engage with the opposite end of the base-plate of the support, said support being also reversible on the handle. The position of the ring on the washer  
10 makes it easy to cast. The ring, however, may be differently located in relation to the washer, or may be separate therefrom and adapted to encircle and engage with both the washer and the handle-support, or it may be  
15 integral with the handle-support and adapted to engage with the washer, or more than one ring may be used, the object being to prevent the handle-support, the handle, and the washer from becoming disarranged in relation to each  
20 other on the clamping-bolt when detached from the saw.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

- 25 1. In combination, a support adapted to intervene between a saw-handle and the end of a saw, a washer, and a ring integral therewith and adapted to encircle a saw-handle and to detachably engage with said support.  
30 2. In combination, a mechanism adapted to intervene between a saw-handle and the end of a saw, a washer, and means adapted to encircle the handle and to detachably engage said mechanism with said washer.

3. In combination, a base-plate, arms projecting therefrom, a groove in the end of said arms, and a lip on each of said arms, extending beyond one side of said groove therein, said lips on the respective arms being adapted to rest against the opposite sides of a saw. 35

4. In combination, a curved base-plate, parallel arms projecting vertically from the convex face thereof, a groove in the end of each of said arms in line with each other, and a lip on each of said arms, extending beyond one side of said groove on opposite sides of said line, respectively. 40

5. In combination, a cylindrical handle, an intervening mechanism adapted to engage with said handle and the end of a saw, a washer, a ring adapted to encircle said handle and to detachably engage said intervening mechanism and said washer together, and a bolt adapted to secure said parts together and to the end of a saw. 45

6. In combination, a mechanism adapted to intervene between a saw-handle and the end of a saw, integral parallel lips thereon, adapted to extend along and rest against the respective sides of the saw, a washer, and a ring adapted to encircle the saw-handle and to detachably engage said washer with said mechanism. 50

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Witnesses:

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