

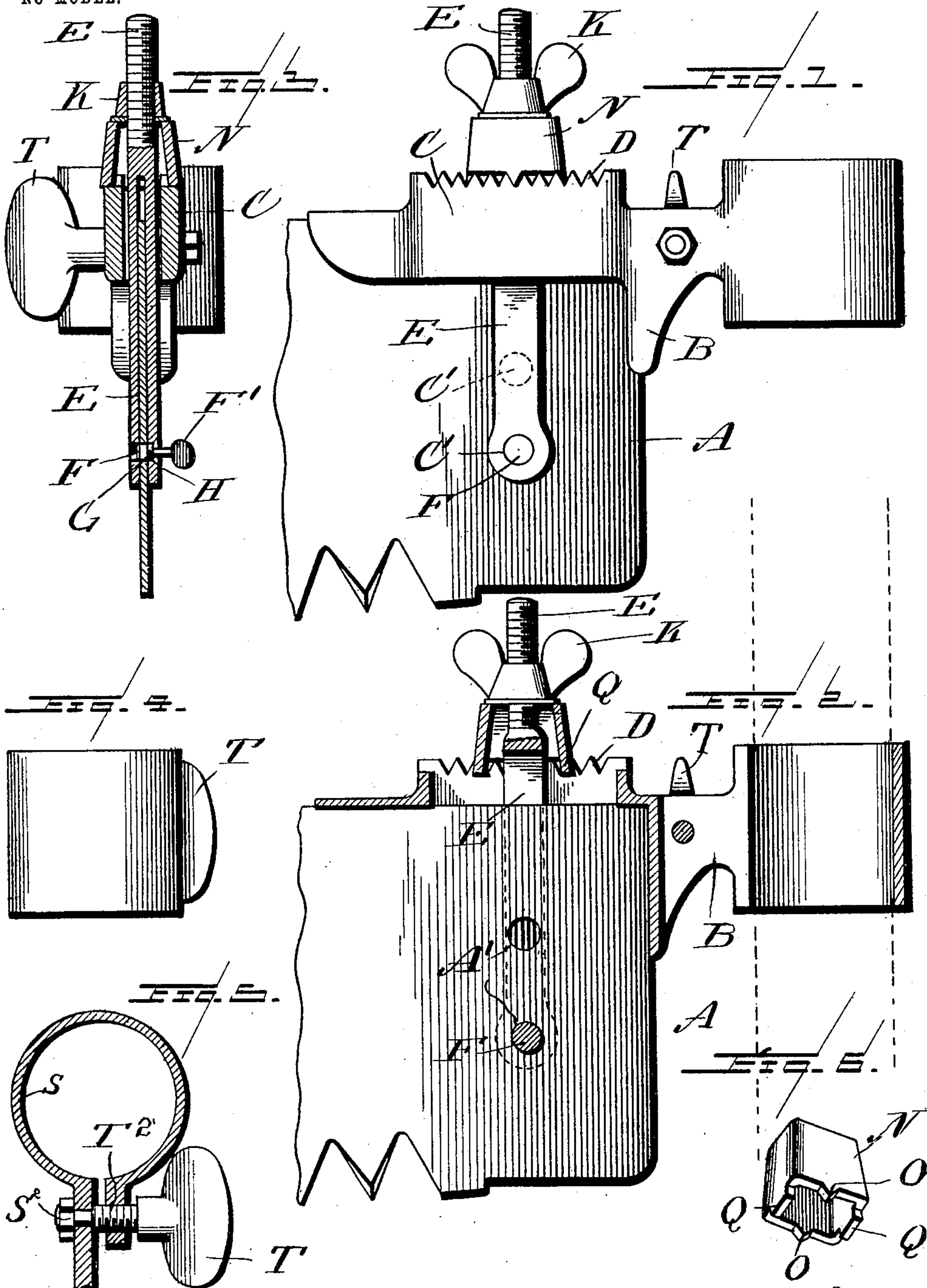
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PATENTED JUNE 21, 1904.

C. W. BYHAM.  
SAW HANDLE.

APPLICATION FILED FEB. 3, 1904.

NO MODEL.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 763,257, dated June 21, 1904.

Application filed February 3, 1904. Serial No. 191,850. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES W. BYHAM, a citizen of the United States, residing at Kane, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Handles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in saw-handles adapted for use in connection with crosscut-saws; and the aim of the present invention is to generally improve upon and render more efficient the handle upon which I have been granted Letters Patent in the United States No. 624,292.

More specifically, the invention consists in a saw-handle adapted to be adjustably held to saws and in the provision of a hollow shank portion adapted to receive an operating-handle and so constructed that by one turn of the thumb-screw, having right and left threads, the shank portion, which is hollow and split, is adapted to clamp or release the operating-handle.

The invention consists, further, in various details of construction and in combinations and arrangements of parts, which will be hereinafter more fully described and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved saw-handle shown as applied to a saw. Fig. 2 is a vertical sectional view through the apparatus which is adapted to be held to the saw. Fig. 3 is a cross-sectional view through the saw and the handle apparatus. Fig. 4 is an edge view of the hollow cylindrical split shank portion adapted to hold an operating-handle. Fig. 5 is a cross-sectional view through the detail shown in Fig. 4, and Fig. 6 is an enlarged perspective view of a detail of the apparatus.

Reference now being had to the details of the drawings by letter, A designates one end

of a saw having apertures A' therein, and B designates the operating-handle-holding frame, comprising a right-angled portion which is grooved to receive the upper edge of the saw and also has a groove extending at right angles to the length of the saw in the downwardly-projecting portion of the frame to receive the end of the saw. The portion of said frame B which fits over the rear edge of the saw is longitudinally slotted, as at C, and the opposite parallel marginal edges of the flanged portion about said opening C is provided with serrations or teeth D, and E designates a split bolt, the two arms of which have apertures C', adapted to receive a fastening-bolt F, which bolt F has a head F' and has its inner end G somewhat enlarged in order to abut against the shoulder H, which is formed about the margin of one of said apertures in an arm of the bolt E to prevent said bolt from separating from the arm of the split bolt, which holds the same. The registering aperture, which is in the other arm, is of sufficient diameter to allow the enlarged inner end of said bolt to pass through the same when it is desired to fasten the bolt to the saw. The object of having the enlarged inner end of said bolt is in order to hold the latter to the arm after being detached from the saw. The two arms of said bolt E pass up through said elongated aperture C, and a winged nut K is mounted upon the threaded end of said bolt.

N designates a rectangular-shaped washer having oppositely-disposed serrations O, which are designed to rest in opposite notches D, and at the ends of said washer are the rectangular-outlined lugs or projections Q, which are of a length equal to the width of the aperture C and adapted to guide the washer in said slot or aperture to hold the washer with the serrations O in said notches D.

The shank portion of the handle-holder B has a loop or shell S, which is bent in cylindrical form, and a winged nut T passes through registering apertures in the end of said shell and the narrow portion of the shank portion B, one end of said thumb-screw being contracted and provided with left threads designed to engage threads in the aperture in said shank portion B, while the threads T' on



the enlarged shank portion of the thumb-screw T have right threads engaging similar threads in the wall of the aperture in the end of said shell. A suitable nut S<sup>2</sup> is mounted  
 5 upon the end of the thumb-screw and holds the same in place. By the provision of the clamping-shell shown, which is adapted to receive a wooden handle, the latter may be clamped at any location to its length in order  
 10 to adapt the saw for cutting at different heights or for the convenience of operators in different positions.

By the provision of the improvements embodied in the present application it will be  
 15 observed that I provide means whereby the slotted bolt is securely held to the portion of the handle-carrying apparatus which fits over the rear edge of the saw by reason of the serrations of the washer N engaging oppositely-  
 20 disposed notches D, and when the thumb-screw K is turned down, holding said washer securely in place, the handle will be securely fastened to the saw. By the provision of the bolt F having an enlarged end the latter will  
 25 be always held to one of the arms of the bolt E, and after the apparatus has been fitted over the edges of the saw said bolt F may be pushed through into the registering aperture with the other arm of the bolt E, and when  
 30 the thumb-screw K is turned down the apparatus will be securely held to the saw. The split cylindrical shank portion, to which the handle is adapted to be fastened, may be clamped to the handle or released therefrom  
 35 by turning the thumb-screw T in one direction or the other.

While I have shown a particular construction of apparatus illustrating my invention it will be understood that I may make alterations in certain details, if found necessary, 40 without departing from the spirit of the invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is— 45

A saw-handle apparatus comprising a plate having an angled slot adapted to fit over the back and end of the saw, and a flexible handle-engaging portion, said plate having an elongated slot, the upper edges of the opposite longitudinal wall of said slot having serrations, a split bolt having arms projecting through said slot, a retaining member passing through registering apertures in said arms and saw, a hollow tapering washer member 55 through which the threaded shank portion of said bolt passes, one end of said washer having oppositely-disposed teeth-engaging serrations in the upper edge of said plate, and lugs at the ends of said washer member intermediate the side walls of the latter which are adapted to engage the inner faces of said slot- 60 ted plate, and a winged nut mounted upon the threaded portion of the bolt and adapted to bear against said washer member, as set forth. 65

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CHARLES W. BYHAM.

Witnesses:

W. M. WILES,  
 JOHN C. DILLON.