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W. KRONENWETTER.  
HANDLE FOR CROSSCUT SAWS.

APPLICATION FILED FEB. 12, 1903. RENEWED APR. 22, 1905.

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# UNITED STATES PATENT OFFICE.

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## HANDLE FOR CROSSCUT-SAWS.

No. 804,139.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed February 12, 1903. Renewed April 22, 1905. Serial No. 256,994.

*To all whom it may concern:*

Be it known that I, WILLIAM KRONENWETTER, a citizen of the United States, residing at St. Marys, in the county of Elk and State of Pennsylvania, have invented a new and useful Handle for Crosscut-Saws, of which the following is a specification.

The invention relates to improvements in handles for crosscut-saws.

10 The object of the present invention is to improve the construction of handles for crosscut-saws, more especially the means for securing the saw-blade to the handle, and to provide a simple, inexpensive, and efficient device of great strength and durability adapted to be readily applied to an ordinary crosscut-saw and capable of securely gripping the same and of effectually preventing the handle from becoming loose.

20 With these and other objects in view the invention consists in the novel construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the claim hereto appended, it being understood that changes in the form, proportion, and minor details of construction within the scope of the claim may be made without departing from the spirit or sacrificing any of the advantages of the invention.

30 In the drawings, Figure 1 is a side elevation, partly in section, of a handle provided with a device constructed in accordance with this invention. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a detail perspective view of the cap.

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

40 1 designates a cylindrical cap designed to be constructed of suitable material, such as malleable metal, and adapted to receive the lower end of a crosscut-saw handle 2, as clearly illustrated in Fig. 1 of the drawings.

45 The cap, which is open at its inner or upper end, is provided at its lower end with a projecting rim or bead, and it is connected therewith by an inwardly-extending horizontal flange or portion 3 with a tube 4, formed integral with the said flange 3 and extending inward a suitable distance, preferably beyond the center of the cap, as shown; but it may be of any desired length. The cylindrical portion of the cap, which forms a ferrule, extends beyond the shorter inner tube to embrace a solid portion of the handle, whereby the de-

vice is securely connected to the same. The handle 2 is reduced at its lower end to fit the cap, and it is provided with an inwardly-extending longitudinal bore for the reception of the tube, which extends into the lower end of the handle. The longitudinal bore forms an annular wall 5 at the lower end of the handle. This wall is interposed between the inner face of the cap and the exterior of the tube and is firmly wedged in place, being driven into the cap in any suitable manner.

60 The cap is provided on its interior with longitudinal ribs 6, which are embedded in the wood of the handle, whereby the cap is firmly held on the handle and is effectually prevented from slipping when the handle is rotated for clamping a saw-blade. The tube is provided at its upper portion with interior screw-threads 7 to engage a threaded portion 8 of a rod 9, which is provided with a loop 10 of the ordinary construction and which receives in its opening or loop one end of the blade of a crosscut-saw. The handle is adapted to be rotated on the rod which forms a spindle for the same, and the smooth lower face at the end of the cap is adapted to firmly engage the upper edge of a saw-blade, whereby the latter is securely gripped and fastened to the handle. The handle is adapted to be tightened by rotating it on the threaded rod or screw, so that there is no liability of the handle becoming loose through use. The handle may be readily unscrewed to detach it from a saw-blade, and it can be quickly transferred from one blade to another. The device may be readily applied to a saw-handle by simply driving the same into the cap. The handle, which is constructed of wood or any other suitable material, is not weakened by the adjustable connection between the cap and the rod, which when the parts are assembled is rigid with the said cap. A solid portion of the handle extends into the cap, so that there is no liability of the handle breaking off at the inner end of the cap when the saw is in use.

105 The interior screw-threads of the tube are located at the upper portion thereof, and the lower portion 11 of the same is smooth to receive and support the upper smooth portion of the rod. The upper end of the tube is open, and the screw or threaded portion of the rod may extend through it into the bore of the handle.

What I claim is—

The combination with a saw-handle, of a

cap having a cylindrical portion forming a ferrule and receiving the handle, said cap being provided with an integral inner tube connected at its lower or outer end with the cap  
5 and extending into the handle and provided with an inner threaded portion forming a nut, said tube being shorter than the ferrule, and the inner or upper portion of the ferrule receiving a solid section of the handle, whereby  
10 the inner tube is rigidly connected with the same, and a rod having means for engaging a

saw-blade and provided with a threaded inner portion engaging the screw-threads of the tube, 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. 15

WILLIAM KRONENWETTER.

Witnesses:

B. T. DORR,  
C. L. McClosky.