No. 677,679. Patented July 2, 1901.

J. W. MILLER.

HANDLE FOR SAW BLADES.

(Application filed Apr. 8, 1901.)

(No Model.)

Fig. 1.

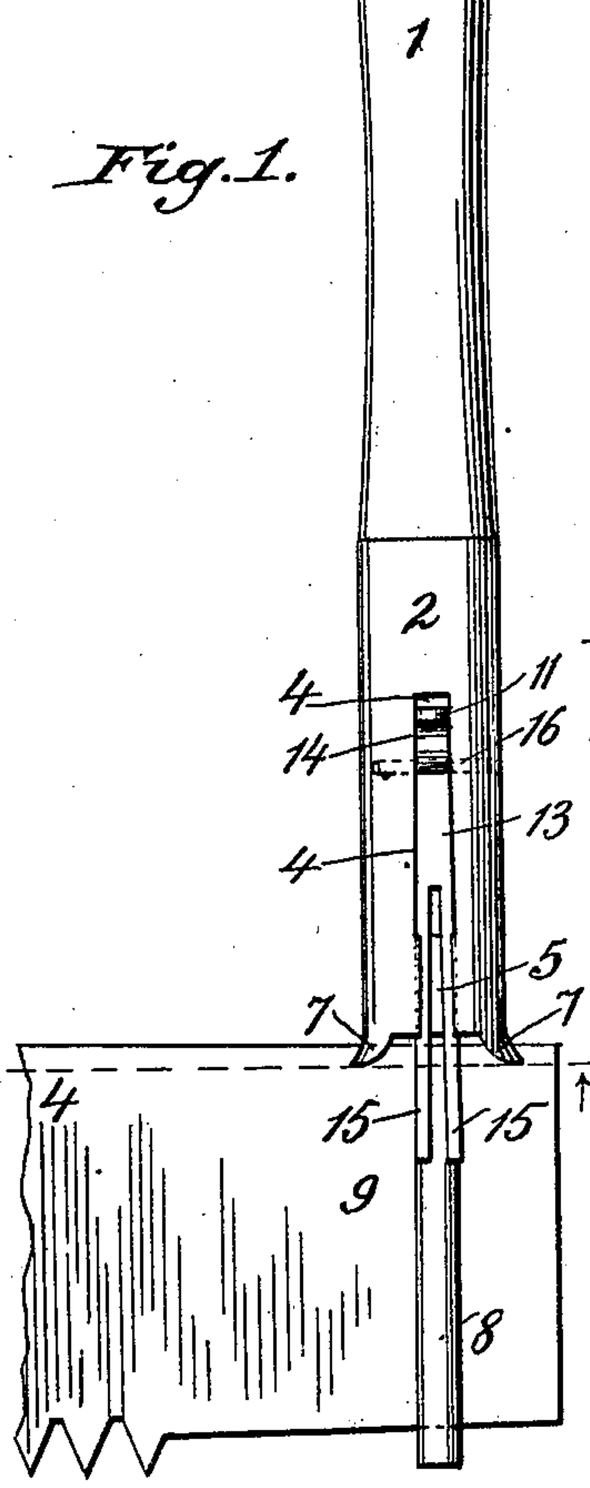

Fig. 2.

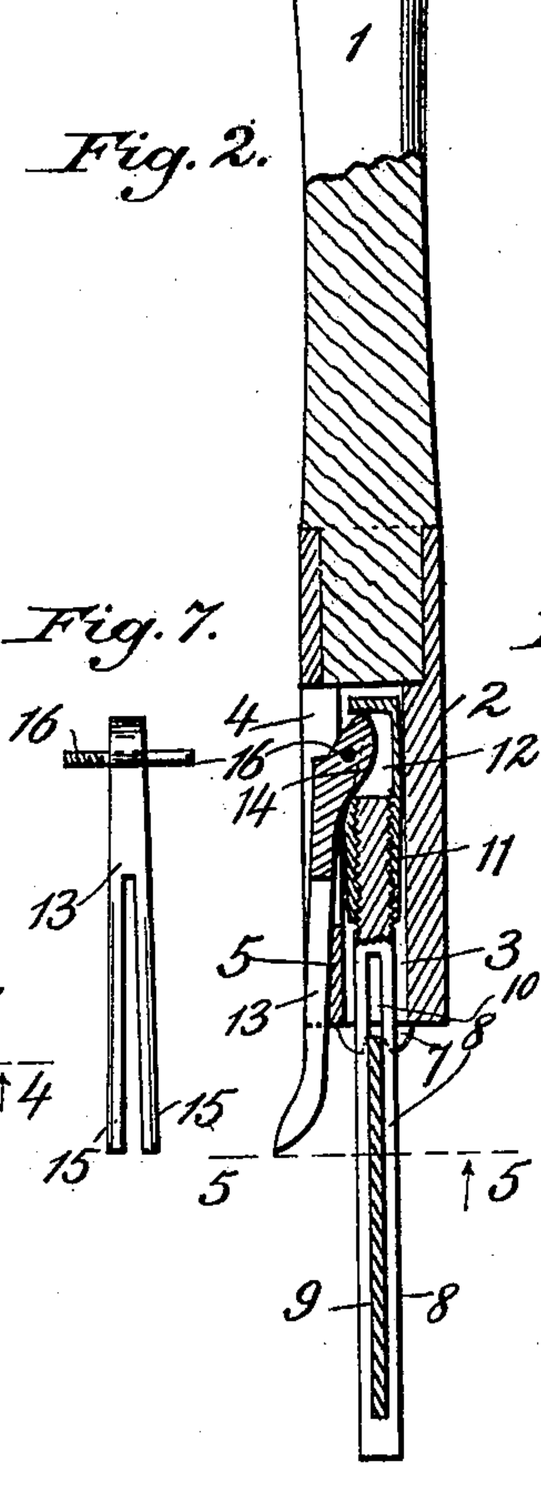

Fig. 3.

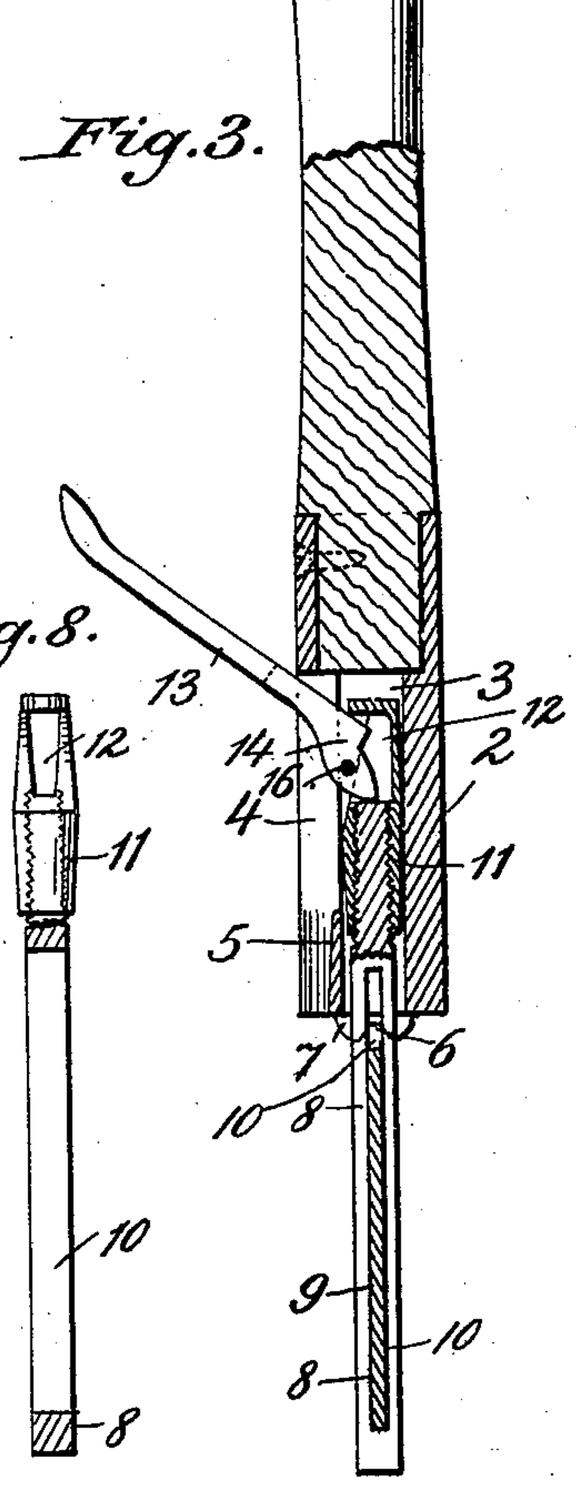

Fig. 7.

Fig. 8.

Fig. 4.

Fig. 5.

Fig. 6.

Attest:

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UNITED STATES PATENT OFFICE.

JOHN W. MILLER, OF DONGOLA, ILLINOIS, ASSIGNOR OF ONE-HALF TO GEORGE W. DILLOW, OF SAME PLACE.

HANDLE FOR SAW-BLADES.

SPECIFICATION forming part of Letters Patent No. 677,679, dated July 2, 1901.

Application filed April 8, 1901. Serial No. 54,901. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. MILLER, a citizen of the United States, residing at Dongola, in the county of Union and State of Illinois, have invented certain new and useful Improvements in Handles for Saw-Blades; 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to handles for saw-blades, more particularly for crosscut-saws; and it has for its object to provide a simple, strong, durable, and efficient handle which can be readily attached to and detached from the saw-blade, the construction being such that the means for clamping the handle to the blade can be easily adjusted to suit blades of different widths, and in which also the blade will be securely and firmly clamped and held to the handle.

To the accomplishment of the foregoing and such other objects that may hereinafter appear, the invention consists in the construction and in the combination of parts hereinafter particularly described and then sought to be specifically defined by the claims, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is the side view of a handle applied to a saw; Fig. 2, a longitudinal section with parts clamped; Fig. 3, a similar view with parts unclamped; Figs. 4, 5, 6, 7, and 8, detail views of different parts.

In the accompanying drawings the numeral 1 designates the handle proper, which is provided at one end with a socket 2, usually made of metal and formed with a longitudinal bore 3 and with a longitudinally-extending slot 4, formed in the wall of the socket, said slot at its forward portion preferably extending only partially through the wall, so as to form a shoulder or base 5 to limit the inward movement of the spring operating and clamping lever hereinafter described, the forward end of the socket 2 being formed with transverse serrations or slots 6, which preferably are formed in ears 7, extending from the end of the socket, as illustrated, said serrations or slots being designed to receive one edge of the saw-blade that is to be clamped to the handle. A loop 8 is provided to receive the saw-blade 9, said loop preferably being formed of a metal rod formed with a longitudinal slot 10, extending entirely or partially lengthwise of the rod from near its outer end to its inner end, the inner end being threaded and engaging threads in a cap 11, the purpose of screw-threading the loop and cap being to admit of longitudinal adjustment of the loop, so as to accommodate saw-blades of different widths, it being apparent that by unscrewing the loop to a greater or less extent a greater or less distance is provided between the outer end of the slot in the loop and the serrations or slots in the handle-socket, in which the inner end of the blade will fit, thus permitting adjustment to the width of the saw in use. The loop and its cap fit in the central bore of the handle-socket, and the face of the lower portion of the cap is partially cut away, so as to form a slot 12, which will receive the lower or cam end of the adjusting and locking lever, said end or cam of the lever bearing against the forward wall of the slot 12 when the lever is lifted and thrown backward, so as to project the loop into position to receive or have removed therefrom the saw-blade, the end of the locking-lever or the cam at its end bearing against the rear wall of the slot 12 when the lever is lowered into locking position, so as to retract or draw the loop inwardly, and thus bind the saw-blade in position. The locking-lever is indicated by the numeral 13 and has at its lower end the heel extension or cam 14, which fits in the slot 12 of the cap to the loop, the forward portion of the lever being slotted longitudinally, so as to form two spring-jaws 15, which when the lever is thrown forward into clamping position will be compressed, so as to enter the longitudinal slot made in the handle-socket, said jaws when within the slot exerting an outward spring-pressure, so as to securely hold the locking-lever in its clamping position. For the purpose of making this lock more secure the side

walls of the slot 4 in the handle-socket are inclined or beveled, so as to impart a dovetail shape to the slot, and thus when the jaws of the locking-lever enter said dovetailed slot they will spread and engage the walls of the slot, and thus more securely hold the locking-lever in its clamping position. If desired, the jaws of the locking-lever may be slightly beveled, as indicated, so as to make a closer fit with the walls of the slot in the handle-socket. The forward ends of the jaws extend beyond the end of the handle-socket, so that when the saw-blade is to be released the fingers may grasp the ends of the jaws and press them toward each other, so as to release their grip on the walls of the slot in the handle-socket. This locking or clamping lever will be pivoted to the handle-socket by means of a pin 16, which may have screw-threaded engagement in the openings made in the handle-socket to receive the pin.

Under the construction described a very simple and efficient and durable saw-handle is provided which can be made at comparatively small cost and in which the parts can be readily assembled and taken apart. The device is also very durable because of the small number of parts employed and the manner of constructing the same.

I have described with particularity the preferred details of construction of the several parts; but changes in the details of some of the features may be made without departing from the essential features of the invention.

Having described my invention and set forth its merits, what I claim is—

1. A saw-handle comprising the socket formed with a central bore and a slot in its wall, the saw-loop fitting in the central bore, and the operating and locking lever passing through the slot in the socket and in engagement with the saw-loop, said lever being formed with spring-jaws to hold it in locking position, substantially as described.

2. A saw-handle comprising the socket formed with a central bore and a slot in its wall, the saw-loop fitting in the central bore, the cap having threaded engagement with the saw-loop and formed with a slot to receive a part of an operating-lever, and the pivoted operating and locking lever passing through the slot in the wall of the socket and having a part entering the slot in the cap to the saw-loop, substantially as described.

3. A saw-handle comprising the socket formed with a central bore and a dovetailed slot in its wall, the saw-loop fitting in the bore of the socket, and the slotted spring-jaw operating and locking lever passing through the slot in the socket and in operative engagement with the saw-loop, substantially as described.

4. The saw-handle comprising the socket formed with a central bore and a dovetailed slot in its wall, the saw-loop fitting in the bore of the socket and provided at its inner end with a threaded cap formed with a slot, and the slotted spring-jaw operating and locking lever passing through the slot in the socket and having a part entering the slot in the cap to the saw-loop, substantially as described.

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

JOHN W. MILLER.

Witnesses:
OLIVER CRUSE,
WESLEY DILLOW.