(No Model.)

J. Q. ADAMS, Jr.

HANDLE FOR CROSSCUT SAWS.

No. 302,183. Patented July 15, 1884.

Fig. 1.

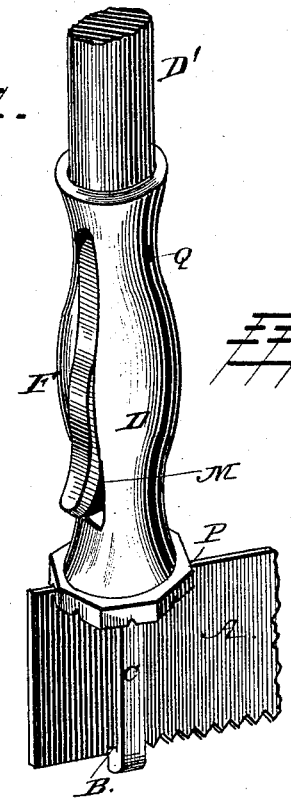


Fig. 2.

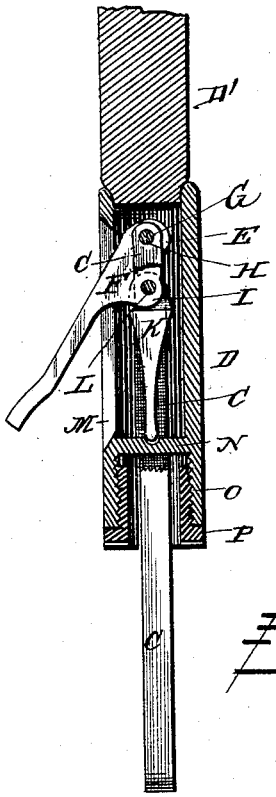


Fig. 3.

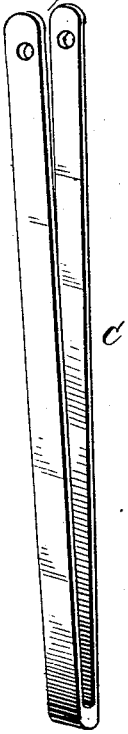
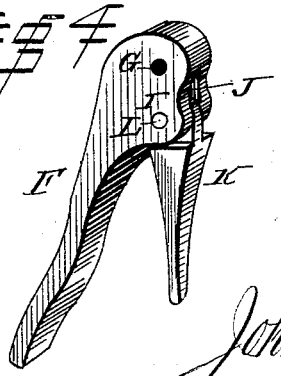


Fig. 4.



WITNESSES:

Fred. G. Dieterich

Chas. F. Fecher

John Quincy Adams Jr.
INVENTOR.

By Louis Bagger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN QUINCY ADAMS, JR., OF BLANCHARD, MICHIGAN.

HANDLE FOR CROSSCUT-SAWS.

SPECIFICATION forming part of Letters Patent No. 302,183, dated July 15, 1884.

Application filed December 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN QUINCY ADAMS, Jr., of Blanchard, in the county of Isabella and State of Michigan, have invented certain new and useful Improvements in Handles for Crosscut-Saws; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a portion of a crosscut-saw provided with my improved handle. Fig. 2 is a vertical sectional view of the same, and Figs. 3 and 4 are detail views.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to handles for crosscut-saws secured by a strap passing around the lower edge of the saw-blade; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the saw-blade, the lower edge of which is provided with a notch, B, in which the lower doubled end of a metallic strap, C, fits, the upper ends of which pass up into the hollow handle-socket D, into the upper end of which the handle D′ is inserted. The upper ends of the metallic strap are perforated, and hinged upon a pin, H, passing through a perforation, G, in the upper eccentric arm of a lever, F, the upper end of which forms a shoulder, I, below the perforation, which shoulder has a vertical recess, J, into which the upper end of an upright rod, K, projects, and is hinged upon a pin, L, passing through the sides of the shoulder and through the end of rod K. This pin L forms a fulcrum for the lever F, the lower end of rod K resting in a recess in a cross-piece, N, at the lower end of the socket, and the longer free end of the lever projects out through a slot, M, in the side of the socket. The inside of the lower end of the handle-socket is provided with a female screw-thread, into which the upper threaded end of a flanged sleeve, O, fits, the lower flanged edge, P, of which has a number of diametrically-opposite notches adapted to receive the upper edge of the saw-blade and keep it from turning. In the side of the socket, near its upper end, is a small perforation, Q, through which the pin H may be inserted or removed for the purpose of securing or removing the strap. It will now be seen that when the free outer end of the lever is raised outward its inner end is depressed, which depresses the strap, when a saw-blade may be inserted in the strap, whereupon the strap may be raised by depressing the outer end of the lever, placing it to bear into the slot in the socket, the strap thus clamping the two edges of the blade between its lower doubled end and the notched lower edge of the flanged screw-threaded sleeve, which may be raised or lowered by turning it, so as to adapt the strap to clamp saw-blades of different widths. It will also be seen that, the strain of the strap falling above and behind the fulcrum of the lever, when the latter is forced downward in the slot in the handle, the free end of the lever will be forced into its downward position and remain in the same.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a detachable handle for saws, the combination of a doubled metallic strap adapted to bear with its lower doubled end around the lower edge of the saw-blade, a hollow handle or socket having a longitudinal slot, and a lever having its fulcrum in a shoulder near its inner end pivoted inside the handle, having its outer end projecting through the slot in the handle, and having the upper ends of the metallic strap hinged to its inner end, as and for the purpose shown and set forth.

2. The combination of a saw-blade, a doubled metallic strap bearing with its lower doubled end against the lower edge of the blade, a hollow handle or handle-socket having a longitudinal slot in its side, having a cross-piece inside, near its lower end, and forming a female threaded socket at its lower end, an upright bar resting with its lower end upon the cross-bar inside the handle, a lever having its outer end projecting through the slot in the handle, having the upper ends of the metallic strap hinged to its inner end and pivoted upon the upper end of the upright rod at a shoulder

formed near its upper end, and a sleeve having its upper screw-threaded end fitting and turning in the socket in the lower end of the handle, and having a lower flanged edge provided with diametrically-opposite notches for the reception of the upper edge of the saw-blade, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN QUINCY ADAMS, JR.

Witnesses:
ANGIE DOXSIE,
DANIEL DOXSIE.