(No Model.)

J. L. HARDWICK.

CLAW BAR.

No. 307,544. Patented Nov. 4, 1884.

Fig. 1.

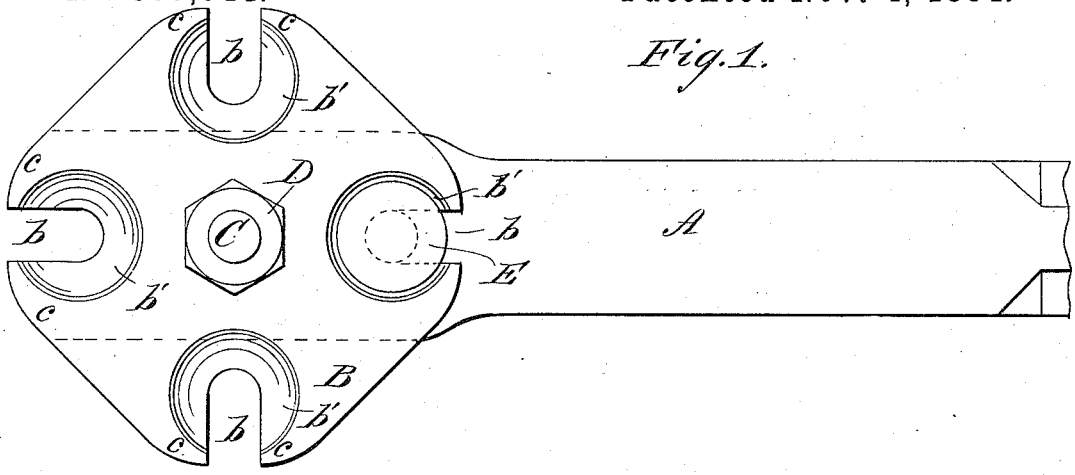


Fig. 2.

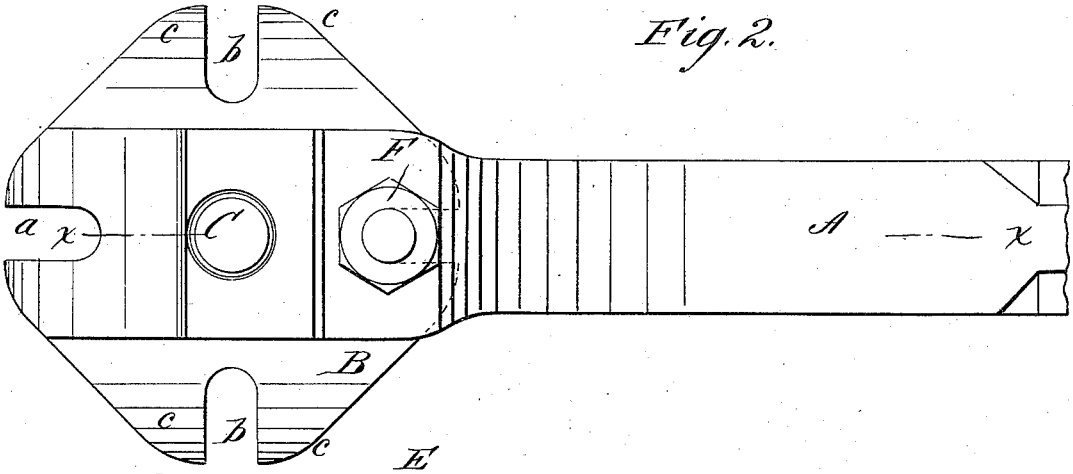
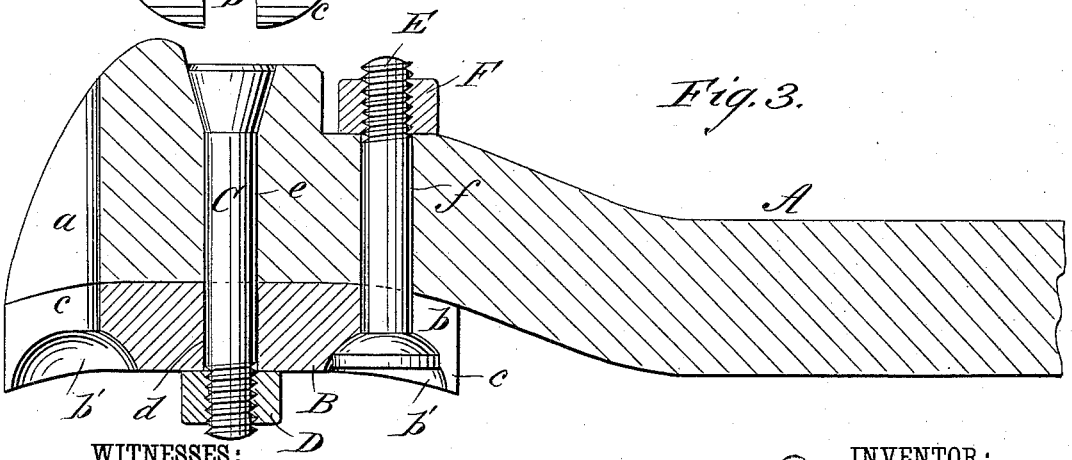


Fig. 3.



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JAMES L. HARDWICK, OF CEDAR RAPIDS, IOWA.

CLAW-BAR.

SPECIFICATION forming part of Letters Patent No. 307,544, dated November 4, 1884.

Application filed April 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. HARDWICK, of Cedar Rapids, in the county of Linn and State of Iowa, have invented a new and Improved Claw-Bar, of which the following is a full, clear, and exact description.

The object of this invention is to improve the construction of claw-bars, and to increase the durability of the same; and to these ends the invention consists of a face-plate having recesses and claws, and pivotally connected to the claw-bar, to adapt it to be reversed without removal from the bar. Said face is also capable of being retained fixedly at its point of adjustment, substantially as hereinafter more fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of one end of a claw-bar having my improvements applied thereto. Fig. 2 is a plan view of the under side of the same, and Fig. 3 is a longitudinal section on the line *x x* in Fig. 2.

A is one end of a claw-bar, formed substantially the same as an ordinary claw-bar for drawing railroad-spikes, with a recess, *a*, in the end for the body of a spike.

B is a square face-plate of hardened steel, having its corners bent upward, rounded, and recessed at *b* and *b'*, to form claws *c*, for receiving the body and head of a spike. The under side is slightly convexed to fit snugly upon the curved upper side of the bar A. The plate B is provided with a central hole, *d*, and the bar A with a hole, *e*, through which holes *d* and *e* a pivot-bolt, C, passes, which bolt is provided with a nut, D, above the face-plate. In the bar A, on the opposite side of the pivot-bolt C from the recess *a*, is a hole, *f*, through which and that recess *b* of the plate B which is opposite that recess *b* which is over the recess *a* of the bar A passes a bolt, E, having upon its lower end a nut, F, the under side of the bar A being rabbeted for a bearing for said nut. By tightening the nuts D and F the face-plate B is held securely upon the bar A. The recesses *b* in the face-plate may be of different widths to adapt the bar to spikes of different sizes. If the claws *c* which are in use should break, by removing the bolt E, another pair of jaws may be brought over the recess *a* of the bar, and the plate again secured as before.

This claw-bar will wear four times as long as an ordinary bar, and by renewing the worn-out plate B can be quickly refitted for use. As the plate B can be more nicely finished and better tempered than the end of the ordinary bar, a still greater durability is insured.

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

1. The combination, with a claw-bar, of a face-plate having a series of claws, and pivoted to the bar so that either of the series of claws can be brought into use without removal from the claw-bar, and of means for holding the plate in the desired position, substantially as shown and described.

2. The combination, with the bar A, having a recess, *a*, of the face-plate B, having jaws *c*, the pivotal bolt C, to permit the turning or revolving of said plate thereon, and means for securing the face-plate in the desired position upon the bar A, substantially as shown and described.

3. The combination, with the bar A, of the face-plate B, the pivotal bolt C, to permit the turning or revolving of said plate thereon, and the bolt F, substantially as shown and described.

JAMES L. HARDWICK.

Witnesses:
I. N. WHITTAM,
W. F. BROCKMAN.