(No Model.)

A. R. WYGLE.

CLAW BAR.

No. 384,223. Patented June 5, 1888.

Fig. 2.

Fig. 3.

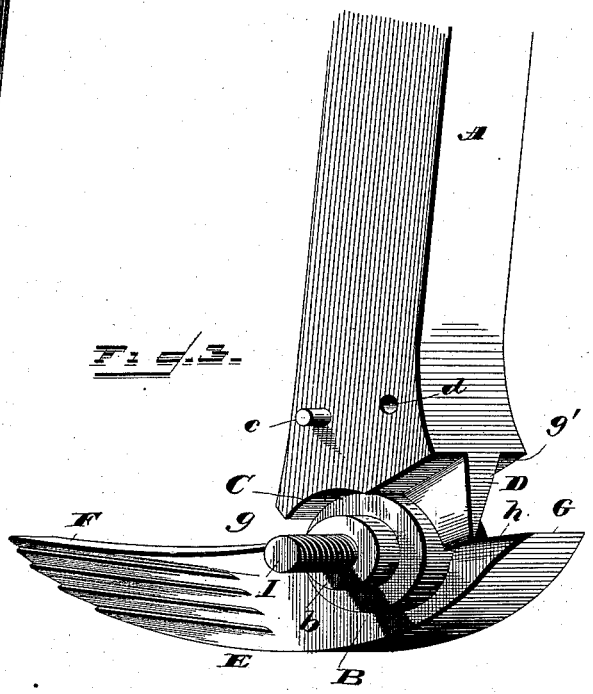


Fig. 1.

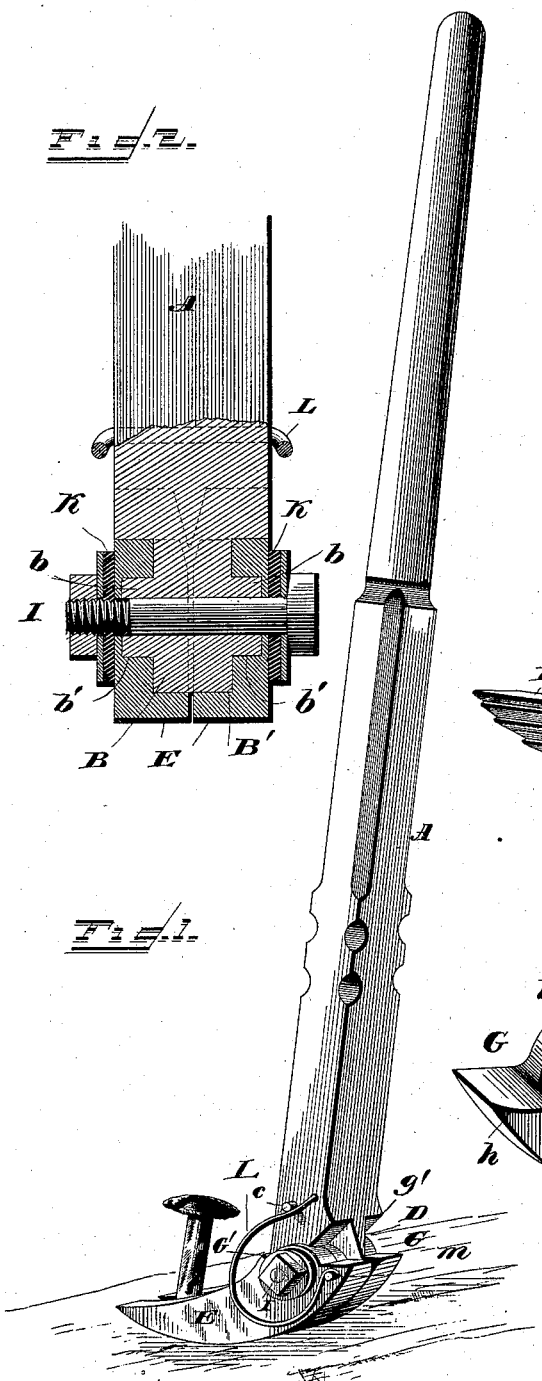
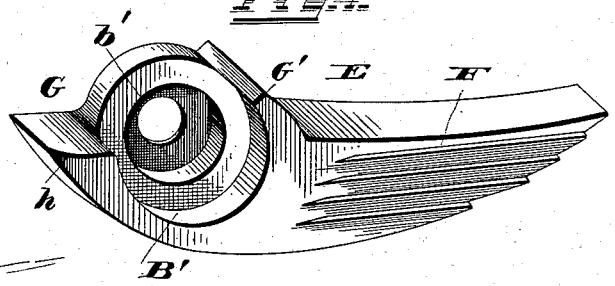


Fig. 4.



WITNESSES

G. S. Elliott.

C. M. Johnson

Archibald R. Wygle.

INVENTOR.

Attorney.

UNITED STATES PATENT OFFICE.

ARCHIBALD R. WYGLE, OF KINGMAN, KANSAS.

CLAW-BAR.

SPECIFICATION forming part of Letters Patent No. 384,223, dated June 5, 1888.

Application filed September 1, 1887. Serial No. 248,510. (No model.)

To all whom it may concern:

Be it known that I, ARCHIBALD R. WYGLE, a citizen of the United States of America, residing at Kingman, in the county of Kingman and State of Kansas, have invented certain new and useful Improvements in Claw-Bars; and I do hereby 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 letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in claw-bars or spike-pullers, the object of my invention being to provide a simple, cheap, and strong claw-bar having movable jaws, which are expansible from each other, and which will be brought together and clamped upon a spike or other object when the handle is depressed; and my invention consists in the construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of a claw-bar constructed in accordance with my invention, showing the same applied in position for use. Fig. 2 is a sectional view taken through the lower end of the handle and through the pivoted claws on a line with the connecting-bolt. Fig. 3 is a detail perspective view of the lower end of the handle-bar, showing one of the claws removed therefrom; and Fig. 4 is a detail perspective view of one of the claws.

A refers to the handle of my improved claw-bar, the upper end of which is of ordinary construction, while the lower end has formed integral therewith a depending portion, B, upon which are formed shoulders *b b*, which have openings, through which passes a connecting-bolt. The front lower end of the claw-bar is curved above the shoulders, as shown at C, while the rear portion is cut away at an angle and is provided centrally with a depending V or wedge shaped portion, D, which is located on the end of the rear portion of the handle rear of the perforations, through which the bolt passes, and said wedge-shaped portion D is formed integral with the portion B. The rear lower portion of the curved bar is curved outwardly, as shown. The lower end of the handle-bar A is provided near its heel or lower end with a transverse perforation, through which passes a spring-bar, said spring-bar abutting against stop-pins *c*, which project from the sides of the handle, as shown.

The claws E E are similar in construction and are provided with sockets *b'*, which are adapted to fit over the circular shoulders *b*, formed on the handle A. These claws are also provided adjacent to the socket *b'* with semi-circular recesses B', which will fit over the curved portion B of the handle. The front projecting portion, F, of the pivoted claws are serrated, so as to better grasp the spike or other object which may be placed between said jaws, and the lower portions of these jaws are curved, as shown. The rear portions of the jaws are provided with stops G and G', the front stop, G', being adapted to abut against the straight portion *g* at the front lower end of the handle, so as to limit the movement of the claws upon the pivot in one direction, while movement in the opposite direction is prevented by the shoulder G contacting with the straight-inclined portions *g'*, formed on the handle-bar adjacent to the wedge D. The inner edges of the claw-bar adjacent to the portion G are slightly beveled, as shown at *h*. The jaws E E are pivoted to the lower portion of the handle-bar by a bolt, I, and adjacent to the sides of the claw-bars, through which this bolt passes, are placed rubber or spring washers K K, above which may be placed ordinary metallic washers. These spring-washers will permit the claw-bars to have a slight lateral movement upon the bolt without straining the same, and, as the sockets in the claw-bars fit snugly over the shoulders and projecting portions formed on the end of the handle-bar, the strain will not come upon the bolt.

L refers to a spring-bar, which passes through the perforation *d* in the handle-bar and beneath the projecting pin *c*, the terminal portions of this spring-bar being bent so as to engage with pins *m*, attached near the heels of the claw-bars, said spring having a tendency to throw the claw-bars up so that they will be

substantially at right angles with the handle, the front ends being thrown wide apart.

When the jaws are placed over a bolt or other object and the handle depressed, the wedge-shaped portion D, formed integral with the handle and rear of the pivot which serves as a fulcrum for the handle, will pass between the heels of the jaws, so as to separate them and close the front ends of the jaw upon the bolt or spike, and as the handle is depressed the front end of the jaws will be elevated, so as to withdraw the bolt.

The portions *b* B, hereinbefore referred to, form laterally-extending bearings when they enter the sockets *b'* B' in the jaws and relieve the bolt from a greater portion of the strain, and their laterally-extending portions form a direct fulcrum for the handle. The wedge-shaped portion D being a considerable distance from the bolt or center of the movement of the handle can be powerfully pressed between the heels of the jaws with little exertion.

I am aware that prior to my invention it has been proposed to provide claw-bars with jaws which are pivotally secured to a handle, so that when the handle is moved rearwardly the jaws will be brought together, and I do not claim such construction, broadly; but

What I claim as new, and desire to secure by Letters Patent, is—

1. A claw-bar consisting of a handle, said handle having formed on its lower end laterally-extending bearings or projecting portions *b* B, through which pass a pivot-bolt, a wedge formed on said handle in the rear of said bearings, and jaws attached to said handle by the pivot-bolt, so that the wedge formed on the handle will be passed between the heels of the pivoted jaws, so as to bring the points together when the handle is moved rearwardly, upon its pivot, substantially as shown, and for the purpose set forth.

2. The combination, in a claw-bar, of a handle provided at its lower end on opposite sides with laterally-projecting bearings or projecting portions *b* B, having a perforation through which passes a bolt, the wedge-shaped portion formed on the lower end of the handle rear of the bearings, jaws having recesses within which the bearings formed on the handle lie, the heels of said jaws being tapered, so that the point of the wedge will lie between the same, and a bolt for connecting the jaws to the handle, substantially as described.

3. In a claw-bar, a handle, A, provided at its lower end with a shoulder-bearing, a wedge, D, formed integral with the handles above and rear of the bearing, jaws E E, having recesses adapted to lie over the shouldered bearings, a bolt for connecting the jaws pivotally to the handle, and compressible washers interposed between the jaws and head and nut of the bolt, the parts being combined substantially as shown, and for the purpose set forth.

4. The combination, in a claw-bar, of a handle provided at its lower end with a depending portion, B, having shoulders *b b*, a wedge-shaped depending portion, D, formed integral with the portion B and the handle, claws having sockets, and a bolt for pivotally securing said claws to the handle, substantially as shown, and for the purpose set forth.

5. The combination, in a claw-bar, of a handle provided at its lower portion with means for pivotally securing thereto claws, said handle-bar also being provided with a wedge-shaped portion, D, and shoulders *g* and *g'*, against which shoulders stops formed on the claw-bars are adapted to abut, substantially as and for the purpose specified.

6. The combination, with a handle, of a claw-bar having shoulders *g g'*, a depending portion with circular shoulders *b* formed thereon, and a wedge-shaped portion, D, claws E E, having sockets adapted to fit over the shoulders *b b*, a bolt for securing the parts to each other, and a spring attached to the lower end of the handle-bar, so as to exert a downward spring-pressure upon the heels of the claws, substantially as and for the purpose set forth.

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

ARCHIBALD R. WYGLE.

Witnesses:
F. S. WHITELAW,
WM. GREEN.