(No Model.)

J. WOLF.

HAMMER.

No. 323,248. Patented July 28, 1885.

Fig. 1.

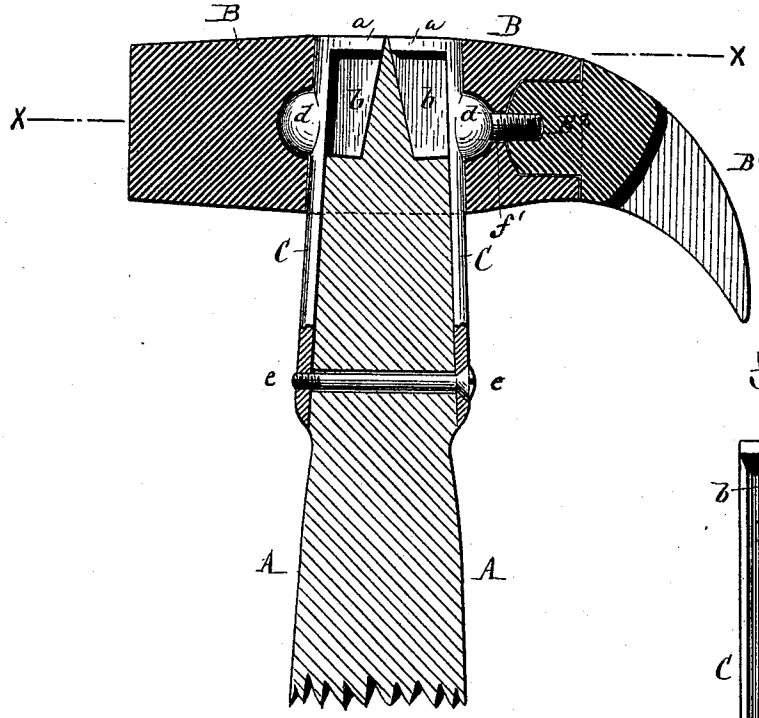


Fig. 4.

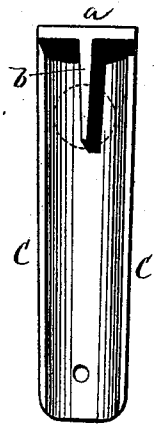


Fig. 2.

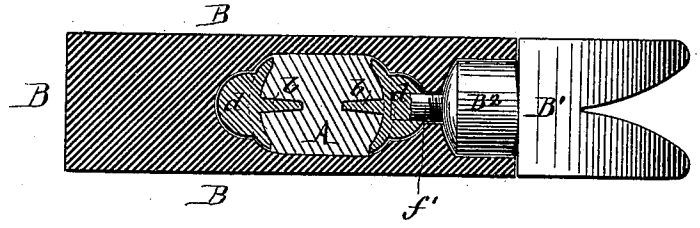
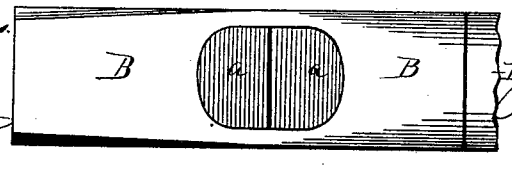


Fig. 3.



WITNESSES:

H. N. Rosenbaum

Carl Kaup

INVENTOR

Josef Wolf

BY

Goepel & Raegener

ATTORNEYS.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOSEF WOLF, OF HOBOKEN, NEW JERSEY.

HAMMER.

SPECIFICATION forming part of Letters Patent No. 323,248, dated July 28, 1885.

Application filed December 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEF WOLF, of Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Hammers, of which the following is a specification.

This invention has reference to certain improvements in hammers, whereby a reliable connection between the handle and body of the hammer is obtained and the hammer adapted to be used for other purposes; and the invention consists of a hammer the handle of which is set into the eye of the hammer-body and retained therein by means of metallic bushings having inwardly-projecting wedges and exterior locking-cheeks.

The invention consists, secondly, of the hammer-body having a socket at one end, a detachable claw or other implement having a shank, and means whereby the implement is secured to the socket of the hammer-body, as will more fully appear hereinafter, and finally be pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal section of my improved hammer, drawn on a large scale. Fig. 2 is a horizontal section on line *x x*, Fig. 1; Fig. 3, a top view of the hammer-body, and Fig. 4 a detail inside view of one of the bushings by which the handle is connected to the hammer-body.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the handle, B the hammer-body, and C C two bushings by which the handle is connected to the eye of the hammer-body B. The bushings C C have concavo-convex shanks, and are provided at their upper ends with flanges *a*, that extend at right angles to the shanks, and with tapering wedges *b*, that extend at right angles to the flanges *a* and shanks. The bushings C C are further provided at their outside with rounded-off projections *d d*, that fit into corresponding extensions or recesses of the eye of the hammer-body, as shown in Figs. 1 and 2. The lower ends of the bushings C C are provided with holes for the passage of a screw, *e*, by which the ends of the bushings are applied to the handle A. For inserting the handle A into the hammer-body B the bushings C C are first placed into position in the eye of the hammer-body, so that the flanges *a a* close the upper end of the eye of the hammer-body. The handle A is then inserted through the lower end of the hammer-body and driven home, so that the wedges *b b* enter into the handle and form a rigid connection therewith. The screw *e* is then passed through the handle and bushings C C, whereby a reliable connection between handle and hammer-body is obtained.

It is obvious that this handle attachment may also be used for hatchets, axes, and other edge-tools and similar implements. The claw-shaped end B′ of the hammer-body B is made detachable, so that it can be interchanged with other implements. The claw B′ or other implement is provided with a shank, B^2, that is fitted into the socket of the body B and secured thereto by means of a screw, *f′*, in the bushing C, which is cast or otherwise attached to the projection *d* of the bushing, as shown in Fig. 1. The screw *f′* passes through the opening of the hammer-body into a screw-socket of the shank B^2, so that the latter can be readily screwed on.

When it is desired to detach the claw B′, it is turned around the axis of the shank B until the shank is entirely unscrewed from the screw *f′*. For attaching the claw or other implement the shank B is screwed on the screw *f′* until the shank abuts against the bottom of the socket.

Different implements may thus be used in connection with the hammer—such as claws, picks, cutting-tools, &c.—whereby it becomes a combination-tool that can be advantageously used for many different purposes.

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

1. The combination of the handle, a hammer-body having an eye and locking-recesses at both sides of said eye, bushings provided with end flanges, rearwardly-projecting wedges, and exterior projections, and means for fastening the bushings to the handle, substantially as set forth.

2. In a handle attachment to hammers and other tools, a bushing having a concavo-convex shank, an end flange, an inwardly-projecting wedge, and an exterior rounded-off projection, substantially as described.

3. The combination of a handle, a hammer-

body, bushings, means for attaching the bushings to the handle and hammer-body, a screw secured to one of said bushings, a socket at one end of the hammer-body, and a detachable claw or other tool having a shank with a threaded socket fitting over the screw, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOSEF WOLF.

Witnesses:
CARL KARP,
SIDNEY MANN.