(No Model.)

W. E. WHITE.

PINCHERS.

No. 385,030. Patented June 26, 1888.

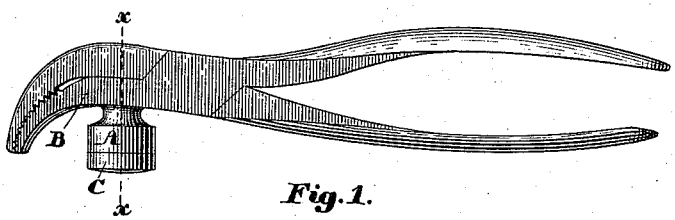

Fig. 1.

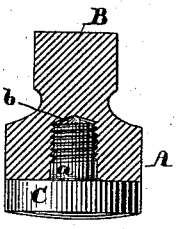

Fig. 2.

Witnesses:
Frank E. Gray.
James T. Murray.

Inventor:
William E. White,
by Walter E. Lombard.
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM E. WHITE, OF LYNN, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO JOSEPH M. REANDO, OF SAME PLACE.

PINCHERS.

SPECIFICATION forming part of Letters Patent No. 385,030, dated June 26, 1888.

Application filed March 12, 1888. Serial No. 266,954. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. WHITE, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Pinchers, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to the manufacture of pinchers; and it consists in a novel feature of construction, which will be readily understood by reference to the description of the drawings, and to the claim to be hereinafter given, and in which my invention is clearly pointed out.

Figure 1 of the drawings is a side elevation of a pair of shoe-makers' pinchers, with my improvement applied to the hammer portion thereof; and Fig. 2 is a section through the lower jaw of the pinchers and the main body of the hammer on line *x x* on Fig. 1, and showing the removable face in elevation.

It is very desirable in most cases that the hammer-face of pincher-hammers should be kept in good condition—that is, smooth or free from nicks or chipped corners—and to insure this desirable result at a minimum of cost is the object of my invention.

In the drawings, A is the main body of the hammer, forged in one piece with the lower jaw, B, of a pair of shoe-makers' pinchers, as shown in the drawings.

C is a removable face provided with the shank *a*, a portion of which, contiguous to said removable face, is made in the form of a short smooth cylinder, while the remaining portion has formed thereon a male screw-thread. The outer face of the removable disk C may be convex, as shown, or flat, according to the taste or desire of the user or to the use to which it is to be applied.

The main body of the hammer-head A has formed therein a cylindrical recess, *b*, the inner portion of which has formed therein a female thread to fit the male thread on the shank *a*, while the outer portion is without thread and made to closely fit the smooth cylindrical portion of the shank *a*, as clearly shown in Figs. 2 and 3. By this construction the outer removable disk, C, may be readily replaced, when it becomes defaced so as to be unserviceable for the use desired, at a comparatively small expense, when the hammer is as good as new. Another advantage of this construction is that the main body of the hammer may be made of soft iron, the face only being made of steel, thereby materially lessening the cost, and a hardened steel face may be applied thereto; or, if desired, a soft metal face of brass or copper may be substituted for said steel face at the pleasure of the operator.

I am aware that shoe-makers' pinchers have been provided with removable hammers which were screwed into the under jaw of the pinchers, the line of separation being the under side of said lower jaw; but this construction has been found to be objectionable on account of the liability of the hammer breaking off at the line of the under side of the lower jaw.

The advantage of my construction is that the removable disk or face C has a broad fair bearing or shoulder in contact with the main body of the hammer at a point where its diameter is greatest, thereby reducing the liability of its being broken away from its shank to a minimum, as on whatever part of the face the resistance is received the blow is transmitted to the body of the hammer without bringing an oblique strain upon the shank *a*, which would tend to break the same or separate the disk therefrom.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

A pair of pinchers having a broad flat-faced projection upon one of the jaws thereof, which projection is provided with a central screw-threaded socket, combined with a removable disk provided with a cylindrical shank fitted to said socket, so that the inner face of said disk is in close contact with the face of said projection.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 8th day of March, A. D. 1888.

WILLIAM E. WHITE.

Witnesses:
WALTER E. LOMBARD,
FRANK E. BRAY.