W. M. FISK.

Fastening for Tool Handles.

No. 161,942. Patented April 13, 1875.

*Fig. 1.*

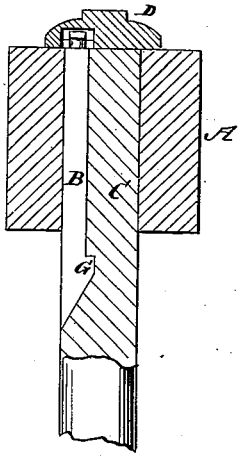



*Fig. 2.*

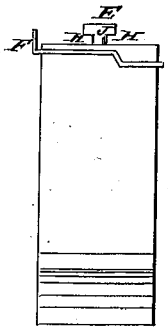
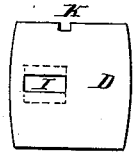



*Fig. 3.*

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# UNITED STATES PATENT OFFICE.

WILLIAM M. FISK, OF LANCASTER, PENNSYLVANIA.

## IMPROVEMENT IN FASTENINGS FOR TOOL-HANDLES.

Specification forming part of Letters Patent No. **161,942**, dated April 13, 1875; application filed January 30, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM M. FISK, of Lancaster, Lancaster county, Pennsylvania, have invented a new and useful Improvement in Fastenings for Tool-Handles, of which the following is a specification:

The object of this invention is to provide ready and efficient means for fastening the handles in axes, hammers, and all tools of like construction; and it consists in a fastening-bar having thereon a button, to which a cap, having a chambered cavity, is applied and turned about one-fourth of a revolution, and thereby fastened. It also consists of a spring in combination with the fastening-bar to hold the cap in place.

Figure 1 represents a section, showing the eye of the tool and manner of applying the fastening-bar and cap. Fig. 2 is a side view of the bar, showing the button and spring; and Fig. 3 is a view of the under side of the cap.

Similar letters of reference indicate corresponding parts.

A represents the eye of the tool. B is the fastening-bar. C is the handle. D is the cap. D is the button on the end of the fastening-bar. F is the spring, and G is the shoulder on the bar.

The handle is cut away on one side to receive the bar, and a notch is made therein to receive the shoulder G. The handle and the bar are now passed through the eye of the tool till their ends are flush with the outside, as seen in Fig. 1, leaving the button E projecting outward, as seen in Fig. 2. This button has a shoulder, H, on one or both sides. The cap D has a mortise or cavity, I, which is chambered out to receive the shoulders H. The mortise just allows the head J of the button to enter. Then the cap is turned across the tool, and then by turning the cap around parallel with the eye it is fastened by the shoulders H entering the chambers in the mortise and lapping onto the eye, as seen in Fig. 1. F is a spring attached to the bar in any manner to allow it to engage with the cap, to prevent the latter from turning. K is a small recess in the side of the cap for the spring to enter. The chambers in the mortise I are indicated in dotted lines in Fig. 3.

By this fastening the handle may be taken out and put in the eye of the tool with the greatest facility.

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

The combination, with a tool and handle constructed substantially as described, of the shouldered bar B, the mortised and recessed cap D, the button E, having shoulders H, and the spring F, all constructed and arranged substantially as and for the purpose specified.

WILLIAM M. FISK.

Witnesses:

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