

WITNESS

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## UNITED STATES PATENT OFFICE.

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## HAMMER.

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My present invention has reference to a tool construction.

My object is to provide a means for easily, quickly and securely attaching a handle to a

5 tool head, such for instance as a hammer. A further object is the provision of a

handle for such tools that can be effectively gripped by the operator. Other objects and advantages will present

10 themselves as the nature of the invention is better understood, reference being had to the drawings which accompany and form part of this application.

In the drawings:

Figure 1 is a side elevation of a tool in 15 accordance with this invention.

Figure 2 is a sectional view approximately on the line 2–2 of Figure 1.

Figure 3 is a sectional view on the line 20 3-3 of Figure 1.

Figure  $\overline{4}$  is an inverted plan view of the tool head and a top plan view of the handle to be associated with the head.

Figure 5 is a side elevation of a modifica-**25** tion.

Figure 6 is a perspective view of the shank employed in the construction illustrated in Figure 5.

My improvement is primarily devised for use in connection with hammer heads, although, of course, other headed tools may be utilized.

Referring now to the drawings in detail and Figures 1 to 4 in particular, a hammer

- ss head of the claw type is indicated by the numeral 1. The head 1, on its under face, is formed with a transverse wedge shaped groove 2, and the side walls provided by the groove are beveled inwardly, as at 3.
- 40 The handle is broadly indicated by the nu-meral 4, and is of metal. The handle has one end thickened and provided with a centrally arranged transversely extending wedge tongue 5 whose side walls are beveled
- received in the groove 2 of the hammer head and thereafter there is passed through aligning opnings in the said head and handle a retaining said tool he headed bolt member 6. The opening in the relative to the handle. 50 handle is threaded to receive the shank of a
- screw 6' therein. By this arrangement it will be noted that the handle may be easily,

quickly and securely attached to the hammer head, 1.

From its enlarged inner end 7, the shank 55 portion of the handle is hollow and the side walls provided thereby are inclined outward-These walls 8 merge into a shoulder 9 ly. and from the shoulder there is extended parallel longitudinally arranged spaced bars 10. 60 The bars 10 have their outer ends connected by a flange 11. All of the bars have their outer portions rounded in plan so that no abrupt sharp surfaces will be contacted by the hand of the user of the tool. Because of 65 the spaced bars 10 the flesh of the user's hand will be depressed between said bars with the result that a better grip can be obtained on the handle than those of the or-70 dinary construction.

In Figures 5 and 6 the head 12 is provided with a wedge groove to receive the wedge tongue 13 on a metal shank 14, a bolt 15 holds the head on the shank. The shank has its outer end bifurcated and the inner 75 walls provided thereby are inclined. The arms provided by the bifurcation are indi-cated by the numeral 15 and between these arms there is arranged a wedge 16 on a handle 17. The handle is secured between the 80 arms by means 18.

The simplicity of my construction and the advantages will be perfectly apparent to those skilled in the art to which such invention relates.

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Having described the invention, I claim :-A device of the character described including a handle having an enlarged inner end, a transversely extending wedge tongue formed at the extremity of said inner end, a tool 90 head having transversely wedge-shaped grooves with their side walls beveled inward-ly and adapted to receive therein the wedge shaped tongue on the handle, said enlarged inner end having a threaded bore centrally 95 thereof and extending longitudially, the head 45 inwardly. The tongue 5 is designed to be having an opening aligning with the bore and a threaded bolt passed through the tool head and threaded into the bore of the handle for retaining said tool head against movement 190

In testimony whereof I affix my signature.

## ALPINE B. ROSSON.