

C. SMITH.
TOOL HANDLE.
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1,320,181.

Patented Oct. 28, 1919.

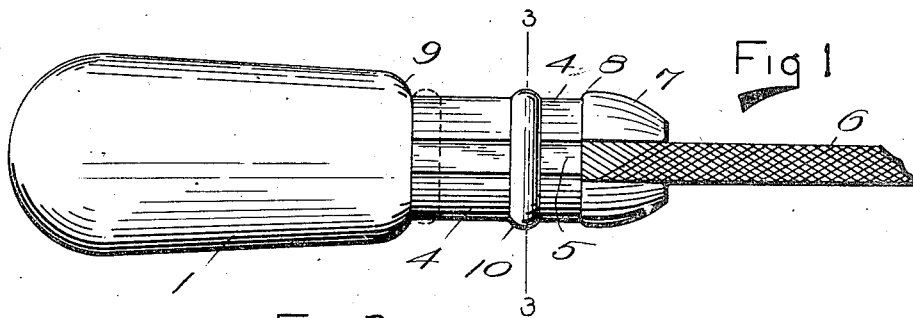
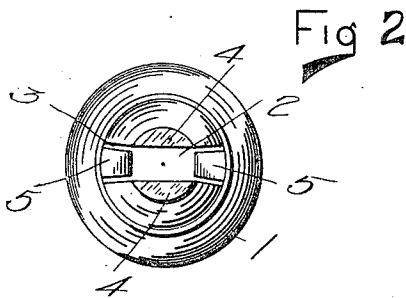
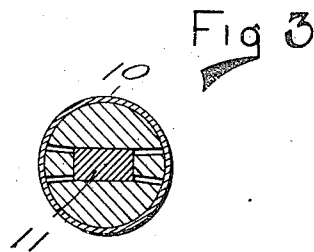


Fig 4

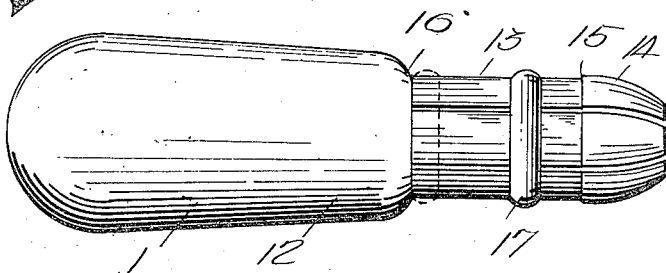


Fig 5

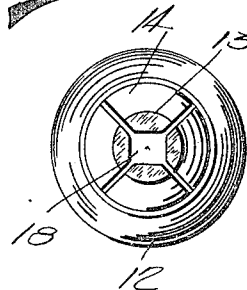


Fig 6

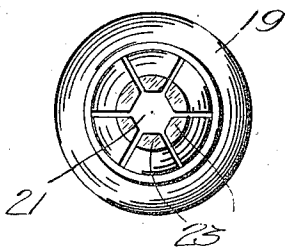
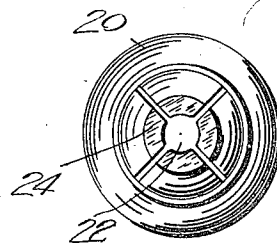


Fig 7



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TOOL-HANDLE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES SMITH, a citizen of the United States, and a resident of Houghton, in the county of Houghton and State of Michigan, have invented new and useful Improvements in Tool-Handles, of which the following is a specification.

My invention is an improvement in tool handles, and has for its object to provide a simple and inexpensive handle which may be made of any kind of hard wood, and which has a size adjustment for tools.

In the drawings:

Figure 1 is a side view of one embodiment of the invention;

Fig. 2 is an end view of the same;

Fig. 3 is a section on the line 3—3 of Fig. 1;

Fig. 4 is a side view of another embodiment of the invention;

Fig. 5 is an end view of the same;

Figs. 6 and 7 are end views of other embodiments of the invention.

In the construction shown in Figs. 1 to 3, inclusive, the handle comprises a grip portion 1 and a shank portion which is of less diameter than the grip portion, and which is provided with a longitudinally extending bore or recess 2. The shank portion is provided with radial longitudinally extending cuts 3, which separate the shank into tongues 4 and 5, the tongues 5 being of slightly less thickness than the width of the file 6 which is to be held by the handle. It will be noticed from an inspection of Fig. 1 that the tongues 6 are enlarged, as indicated at 7, at the ends remote from the grip, and that a shoulder 8 is formed between the enlargements and the bodies of the tongues.

There is an annular shoulder 9 between the handle and the shanks, and a ring 10 is mounted to move on the shank portion between the shoulders 8 and 9. The tang 11 of the file is inserted in the longitudinally extending recess 2, with the ring at the shoulder 9, as indicated in dotted lines in Fig. 1. The tang is inserted as far as possible, after which the ring is moved

toward the shoulder 8, thus firmly clamping the tongues on the file. The tang will force the tongues outwardly, and the movement of the ring will force them together tightly on the file. It will be noticed from an inspection of Fig. 1 that each tongue 5 is cut away to the depth of the shoulder 8, to permit the tang end of the file to move between the tongues 4.

In Figs. 4 and 5 the grip 12 has the shank which is provided with the radial cuts forming four similar tongues 13, and the tongues are enlarged at their outer ends, as indicated at 14, and a shoulder 15 is formed between each enlargement and the body of the tongue. A shoulder 16 is formed between the shank and the grip, and the ring 17 is mounted to slide on the shank between the shoulders.

Referring to Fig. 5, it will be seen that the longitudinally extending recess 18 of the handle is approximately square in cross section, and this hole is adapted to receive round and square files. The holders 19 and 20, shown in Figs. 6 and 7, differ from the holders shown in Figs. 1 and 4 by having recesses 21 and 22 of different cross sectional shape. The recess 21 of the holder 19 is octagonal, while that of the holder 20 is circular. The holder 19 has six similar tongues 23, while the holder 7 has four similar tongues 24. This type of handle is especially desirable for holding soldering irons, since the handle may be easily and quickly tightened on the tool should, for any reason, the tool become loose.

The clamping rings, as, for instance, the rings 10 in Fig. 1, are placed on the handles by slipping them over the enlarged ends 7 of the tongues. The tongues are sufficiently resilient and the slots between them are of sufficient width to permit the necessary compression of the tongues to enable the ring to slip thereover.

I claim:

A tool handle having near one end a substantially cylindrical portion and having annular integral shoulders at each end of the cylindrical portion, said cylindrical por-

tion forming a shank and the other end of the handle being a grip, the handle being longitudinally recessed at the shank end for receiving the tang of a tool, and the shank
5 being split radially at the recess to form tongues, the handle being of resilient material to permit the tongues to be forced out-

ward at their free ends by the insertion of the tang, springing the cylindrical part into conical form, and a ring mounted to slide 10 on the shank between the shoulders for clamping the springing tongues on the tang.

CHARLES SMITH.