

B. A. GREENGOOD.
TOOL HANDLE.
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Fig. 1.

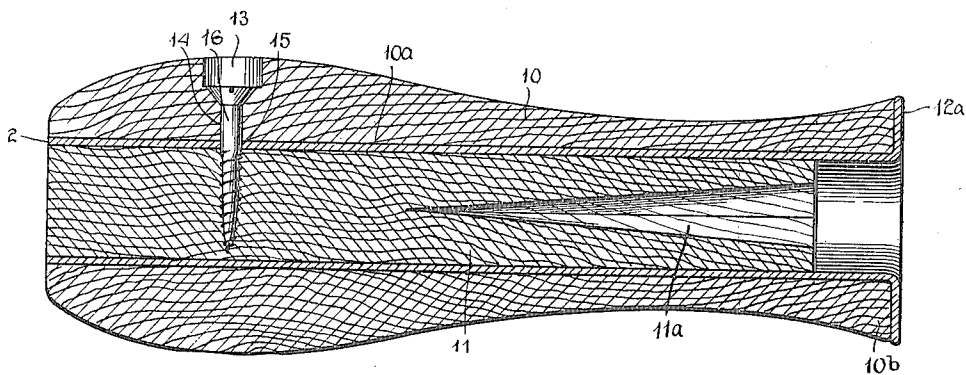
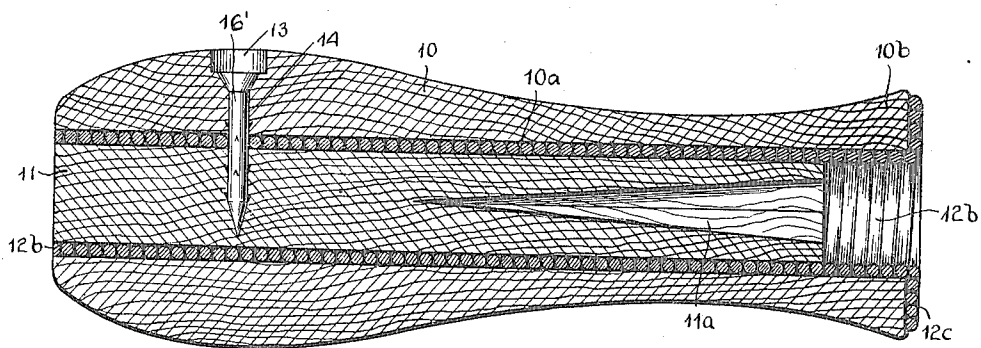


Fig. 2.



WITNESSES

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TOOL-HANDLE.

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To all whom it may concern:

Be it known that I, BERNARD A. GREENGOOD, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Tool-Handle, of which the following is a full, clear, and exact description.

This invention relates to handles for tools of various kinds and has particular reference to handles to be attached to soldering irons or the like, whereby the operator's hand will be protected from the heat.

Among the objects of the invention also is to provide a handle of a more durable and substantial nature, without materially increasing its cost, than other handles heretofore proposed for similar purposes.

With the foregoing and other objects in view the invention consists in the arrangement and combination of parts hereinafter described and claimed, and while the invention is not restricted to the exact details of construction disclosed or suggested herein, still for the purpose of illustrating a practical embodiment thereof reference is had to the accompanying drawings, in which like reference characters designate the same parts in the several views, and in which—

Figure 1 is a vertical longitudinal section of one form of my improvement; and Fig. 2 is a similar view of a modified form.

Referring now more particularly to the drawings, I show in Fig. 1 a tool handle comprising three principal parts, namely, the hand grip 10 preferably of wood or some other similar suitable material; a core 11 likewise of wood or some other material well suited for the frictional connection of the tang of the tool, and a sleeve portion 12 between the core and the grip.

The grip 10 is formed in any suitable manner for the convenience of the hand and is preferably round in cross section as handles are usually made. It is bored longitudinally and centrally with a cylindrical bore 10^a from one end to the other and into this bore is fitted the body portion of the sleeve 12 with a reasonably snug fit. At the tool end of the sleeve is formed a flange 12^a constituting a guard for the tool end or shoulder 10^b of the grip, thus protecting the grip from the direct effect of the heat and constituting also a reinforcement for this end of the grip.

The core 11 is preferably a true cylinder,

the rear end of which is flush with the adjacent end of the grip and the sleeve, while the front or tool end of the core is spaced inwardly from the plane of the flange 12^a. In other words, the core is approximately a half inch shorter than the grip and the sleeve. The danger of the burning or charring of the tool end of the core, therefore, is practically obviated. The core at the end just mentioned is provided with a socket 11^a for the tang end of the tool, the same being adapted to be driven or otherwise forced into it in any suitable manner.

After the core is fitted snugly into the sleeve, as above described, it is locked by some suitable means preventing relative endwise movement thereof. The means I prefer for this purpose, because of the simplicity and efficiency, comprises a nail or screw driven radially inwardly through any convenient part of the grip and through at least one side of the sleeve into the core. For this purpose I bore a countersink 13 in the grip and then counterbore the same at 14 and drill a hole 15 through the sleeve. The screw 16 may then be driven into the core with its head well depressed below the surface of the grip so that the heat from the tool will not be communicated to the hand.

The form of the invention shown in Fig. 2 is substantially the same as that of Fig. 1, but in place of a tubular sleeve, I use one formed of coiled wire or the like, the body of which is shown at 12^b and the flange thereof at 12^c, which, as above described, constitutes a guard lying in a plane perpendicular to the axis of the handle at the tool end thereof. This handle also is bored at 13 and counter-bored at 14 for the fastener which I prefer to consist of a nail 16' driven into the core. This form of the fastener is well adapted for the purpose because it is capable of being driven directly through the sleeve between the adjacent coils thereof.

In both forms of the invention shown, it will be observed that the sleeve constitutes a means positively preventing the splitting of the grip due to the action of the heat or driving of the tool into the core. In short, the handle herein set forth is practically indestructible in practice.

I claim:

The herein described tool handle comprising a wooden grip having a longitudinal bore entirely through the same from one

end to the other, a metal reinforcement sleeve fitted in said bore throughout the length of the grip and having a flange at the tool end constituting a heat guard and protector for the end of the grip, a cylindrical wooden core fitted removably in the sleeve, the rear end of the core being flush with the adjacent end of the grip and sleeve while the tool end of the core is spaced inwardly from the flange aforesaid, and a locking member extending through one side of the grip and sleeve into the core preventing accidental relative endwise movement of any of the parts.

BERNARD A. GREENGOOD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."