

(No Model.)

C. H. GURNEY.

HANDLE FOR TOOLS OR OTHER IMPLEMENTS.

No. 466,678.

Patented Jan. 5, 1892.

Fig. 1.

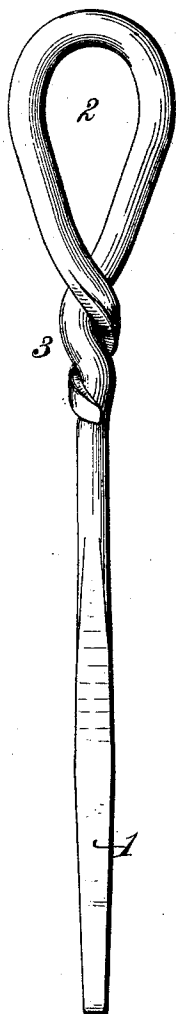
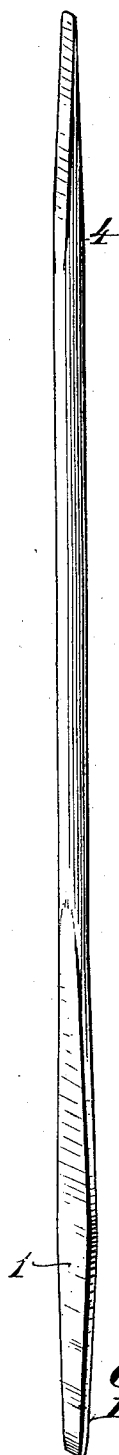


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HANDLE FOR TOOLS AND OTHER IMPLEMENTS.

SPECIFICATION forming part of Letters Patent No. 466,678, dated January 5, 1892.

Application filed March 11, 1890. Serial No. 343,495. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. GURNEY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Handles for Tools and other Implements, of which the following is a specification.

My invention relates to certain new and useful improvements in handles for tools, and the purpose thereof is to provide a tool having its handle integral with said tool and in which the tool-handle will be so formed that when bent to bring the end of the handle against the body thereof the two contacting portions may be united by twisting, the construction being of such character that the twist shall form a duplex spiral having a gradual taper from the point adjacent to the handle loop or eye toward the point of the tool until, at the end of the twist, it is of substantially the same diameter as the body portion.

It is my purpose, also, to provide a tool and its handle formed of a single blank or piece of metal, which is substantially rectangular in cross-section, having its operating end suitably and gradually tapered and its opposite extremity or handle end so formed as to diminish gradually from a fixed point toward the extremity of the handle end of said metallic blank, thereby affording a construction by which a duplex spiral twist may be formed between the body and the tapering handle end, in which the interlocking members shall lie closely and smoothly together, forming a tapering twist, which gradually diminishes to a diameter substantially the same as that of the body of the tool, while the extremity of the handle end shall vanish upon and substantially coincide with the surface of said body, thus avoiding prominent and clumsy projections which are liable to catch upon the fingers and into textile fabrics and giving a neat well-proportioned handle, which will obviate the unsightly appearance so frequently met with in devices of this character.

It is my further purpose to provide the handle end of the tool-blank with a double gradual taper—namely, in thickness and in width—to facilitate and insure the requisite tapering

form of the duplex spiral twist and the smooth and neat appearance of the interlocking parts.

To these ends my invention consists in the several novel features of construction herein-after fully described, and then definitely pointed out in the claim which follows this specification.

To enable others to make and use my said invention, I will now describe the same in detail, reference being made to the accompanying drawings, in which—

Figure 1 represents a screw-driver in which my invention is embodied. Fig. 2 is a view of the blank from which the said screw-driver is constructed, showing the tapering formation of the handle end.

In the said drawings, the reference-numeral 1 designates a screw-driver formed from a single piece of metal constituting a flattened and substantially rectangular strip, rod, or bar. The handle end of this strip or bar is tapered or reduced in width and thickness and bent to form the eye or loop 2, a portion of said end being lapped upon the body of the tool to form below the eye 2 a duplex spiral twist 3 to firmly unite the parts in such a manner that the tapered or reduced extremity of the lapped portion will coincide with or vanish upon the tool-body, thereby forming substantially flush surfaces and avoiding a clumsy and unsightly appearance.

The novel features of this construction are substantially as follows: By reference to Fig. 2 it will be seen that the handle end of the blank is gradually diminished in thickness until at its extremity it approximates a thin edge, and it is also somewhat diminished or tapered gradually in width, both these tapers beginning at or about a point designated by the numeral 4, as shown in Fig. 2. When the handle end is bent to form the ovate loop or eye 2, and when the duplex twist 3 is formed, the spiral immediately below the lower end of the eye 2 will be of somewhat greater diameter than the width of the body of the tool; but this diameter will gradually decrease toward the operating end of the tool, owing to the double taper of the extreme end of the handle portion of the blank, until finally the extremity of said portion will be lapped

closely upon the body, and its end, which is gradually diminished approximately to an edge, will lie upon and substantially coincide with the surface of said body or vanish thereon, thereby forming nearly flush surfaces. In this manner all sharp and prominent projections are avoided which are liable to catch not only on the clothing but upon the fingers of the operator, and a neat, handsome, and well-proportioned tool is provided, capable of being manufactured at low cost and possessing a greatly-increased strength and durability.

Having thus described my invention, what I claim is—

A tool consisting of a metal bar provided at one end with a blade and having an opposite end flattened and gradually reduced both

in width and in thickness from the point 4 toward said end and provided with an eye or loop 2, and a duplex spiral twist 3 below said loop, consisting of the reduced end intertwined with a portion of the tool-body, the diameter of said twisted portion being gradually diminished until it approximates the diameter of the tool-body and the tapered extremity of the bar being lapped to vanish upon the same, forming substantially flush surfaces therewith, substantially as shown and described.

In testimony whereof I have affixed my signature in presence of two witnesses.

CHARLES H. GURNEY.

Witnesses:

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