

(No Model.)

J. JOHNSTONE.
TOOL HANDLE.

No. 512,971.

Patented Jan. 16, 1894.

Fig: 1.

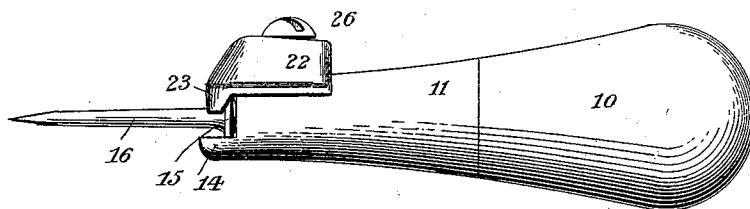


Fig: 2.

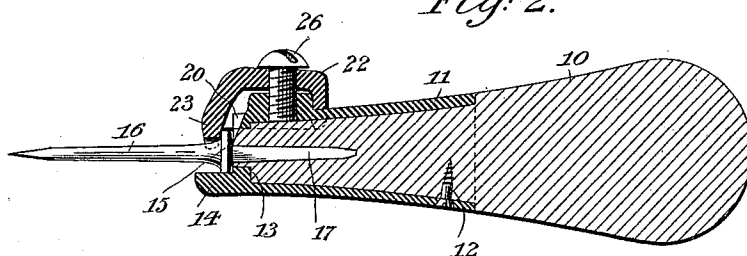


Fig: 3.

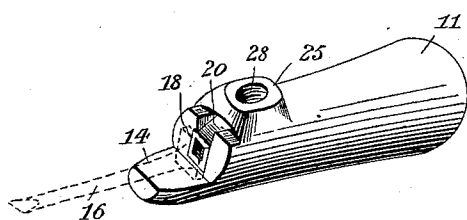


Fig: 4.

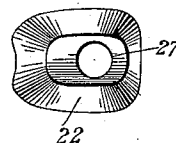
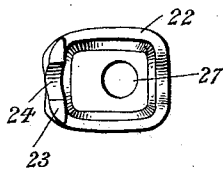


Fig: 5.



WITNESSES:

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TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 512,971, dated January 16, 1894.

Application filed September 27, 1893. Serial No. 486,599. (No model.)

To all whom it may concern:

Be it known that I, JAMES JOHNSTONE, of the city, 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.

My invention relates to improvements in tool handles; and the object of my invention is to produce a very cheap, simple and strong tool handle which is especially adapted for holding a brad awl.

In the accompanying drawings Figure 1 is a side elevation of the handle embodying my invention, a tool being held therein. Fig. 2 is a longitudinal section of the handle. Fig. 3 is a detail perspective view of the ferrule which is secured to one end of the handle. Fig. 4 is a plan view of the removable jaw which is fastened to the ferrule, and Fig. 5 is an inverted plan view of the said jaw.

The handle 10 may be of any usual shape, and at its smaller end it is provided with a ferrule 11 which may be attached to the handle in any convenient way, such as by a screw 12. The ferrule has an internal shoulder 13 near its outer end to enable it to rest firmly against the handle so as to resist strain placed endwise upon it, and the ferrule has a bore which is large enough to permit the tool shank to be conveniently inserted. The ferrule has at its outer or lower end a projecting portion 14, which serves as a fixed jaw and against which bears one edge of the polygonal flange 15 of the brad awl or similar tool 16. The shank 17 of the tool 16 enters a central hole 18 in the handle (see Fig. 3,) adapted to receive it, while the flange 15 finds an end or thrust bearing against the outer face of the shoulder 13.

The ferrule is provided on one side and near the lower end with a notch 20, having an inclined rear wall, as shown in Fig. 3, and this enables an implement, such as an awl, to be inserted beneath the flange 15 of the tool, so that the latter may be easily removed, and consequently, if the tool is broken, it may be readily taken out and a new one substituted.

The tool is held in place by the fixed jaw 14, above referred to, and by a detachable hollow jaw 22 which has, at its lower end, an

inwardly projecting claw 23 which is grooved on the edge, as shown at 24, to enable it to fit snugly upon the tool 16 just below the flange 15. The jaw 22 fits over a boss 25 on one side of the ferrule 11, and it bears against the boss which thus serves to take the strain off the fastening screw 26, by which the jaw is clamped to the ferrule, this screw extending through a hole 27 in the back of the jaw 22 and into a threaded hole 28 in the boss 25. It will be seen that by tightening the screw 26 the jaw 22 may be fastened very solidly to the ferrule, and the claw 23, engaging the tool and its flange 15, holds the tool against endwise displacement and also against turning, as the flange 15 is rectangular or otherwise polygonal, and bears against the jaw 14, so that the tool cannot turn. To remove the tool one has merely to free the jaw 22, place an instrument in the notch 20 and beneath the flange 15, and then lift the tool from the handle.

As above remarked, the handle is particularly intended for holding a brad awl, as illustrated, but it will be readily seen that many other small tools may be held conveniently by it.

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

1. A tool handle having at one end a central opening for the shank of the tool, a fixed jaw projecting beyond the end of the handle to form a bearing for a polygonal flange on the tool, and a detachable jaw secured to the opposite side of the handle and provided with a grooved claw to fit over the tool beyond its flange, substantially as described.

2. A tool handle having at one end a central opening for the shank of the tool, a fixed jaw projecting beyond the end of the handle to form a bearing for a polygonal flange on the tool, and a detachable jaw secured to the opposite side of the handle and provided with a grooved claw to fit over the tool beyond its flange, and means as a screw for fastening the removable jaw, substantially as described.

3. A tool handle having at one end a central opening for the shank of the tool, a fixed jaw projecting beyond the end of the handle to form a side bearing for the polygonal flange

on the tool, a shoulder 13 to form an end or thrust bearing for the said flange, and a detachable jaw having a claw to fit over the flange of the tool.

- 5 4. A tool handle having at one end a ferrule with a projecting end jaw, a threaded boss on the side of the ferrule opposite the fixed jaw, a detachable jaw having a claw projecting over the handle end and a screw passing
10 through said detachable jaw into the threaded boss, substantially as and for the purposes described.

- 5 5. The improved tool handle having at one end a ferrule with a projecting end jaw, a
15 boss on the side of the ferrule opposite the fixed jaw, a hollow detachable jaw to fit over the boss, the detachable jaw having an in-

wardly turned claw to overlap the end of the ferrule, and a fastening device to secure the removable jaw to the ferrule, substantially as 20 described.

6. The combination, with the handle, of the ferrule having a projecting end jaw with a flat inner face, a notch near the end of the ferrule on the side opposite the fixed jaw, a 25 projecting boss adjacent to the notch, and a detachable hollow jaw fitting over the boss and provided with an inturned claw overlapping the end of the ferrule, substantially as described.

JAMES JOHNSTONE.

Witnesses:

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