

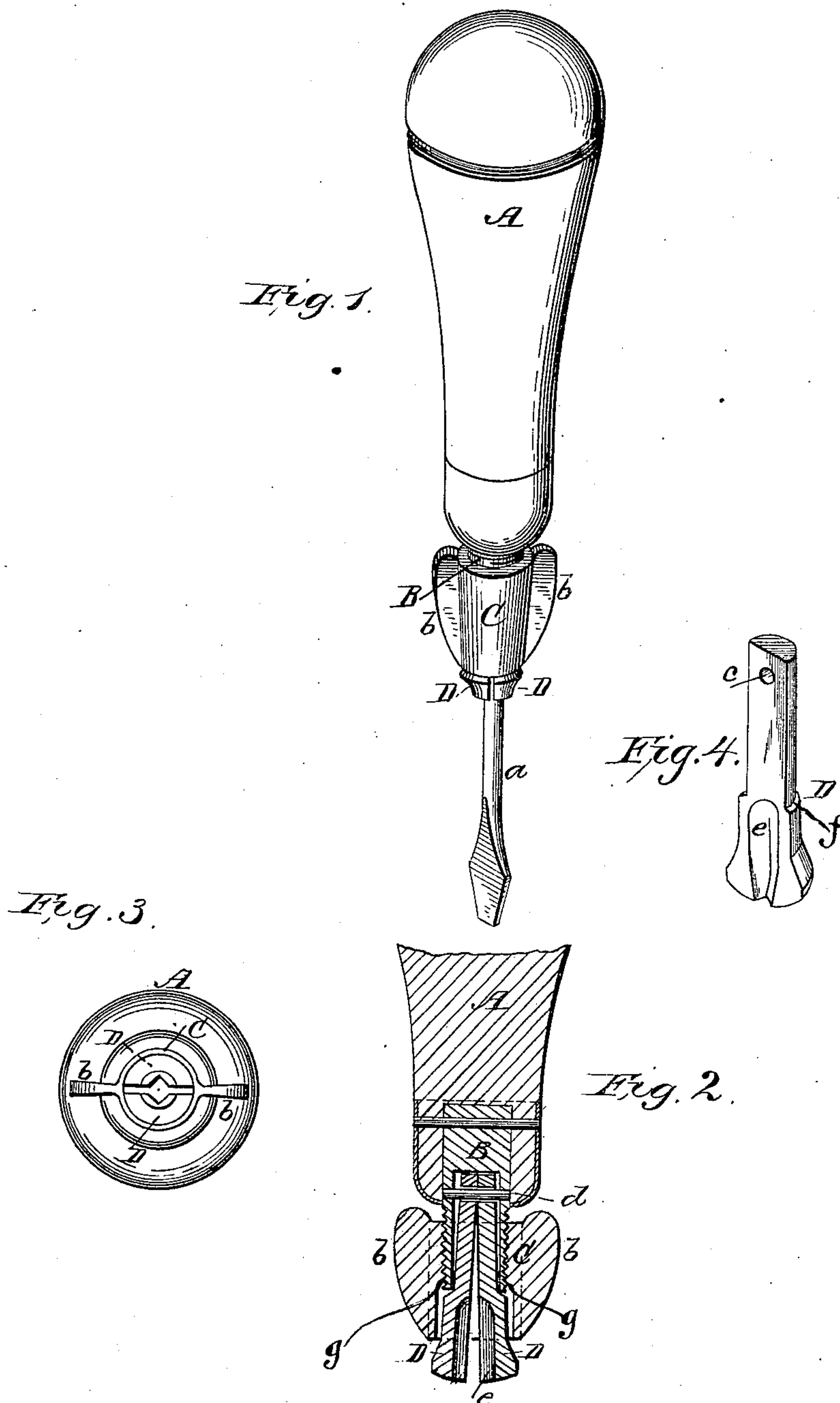
(No Model.)

J. S. FRAY.

TOOL HANDLE.

No. 282,712.

Patented Aug. 7, 1883.



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TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 282,712, dated August 7, 1883.

Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. FRAY, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Tool-Handles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention; Fig. 2, a sectional view on an enlarged scale, and Fig. 3 an end view of Fig. 1 with the tool removed; Fig. 4, a detail view in perspective of one of the gripping or holding jaws.

The present invention has relation to certain new and useful improvements in that class of tool-holders in which the shank of the tool is held between two movable jaws brought firmly against it by a screw-threaded sleeve.

The object of the invention is to improve the construction of the above class of tool-holders, whereby the tool is more firmly held between the jaws with less liability of its pulling out or the jaws turning upon their axis, which objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents a tool-handle, preferably of that class formed hollow for containing the several tools, one of which is shown at *a*. To the lower end of the handle A is secured a socket, B, provided with a circular recess, and having screw-threads upon its exterior to receive a screw-threaded sleeve, C, provided with shoulder *g*, and having wings *b*, for convenience of turning it. The shanks of the gripping-jaws D are semicircular in form and extend into the socket their entire lengths, the jaws being provided with shoulders *f*, which abut against the lower edge of the socket. They are also each provided with perforations *e* at their upper

extremities, through which passes a pin, *d*, said pin also passing through the socket. As above described, it will be seen that the pin not only passes through the shanks of the gripping-jaws to hold them parallel with each other, but also through the socket, thus preventing the jaws from turning by the employment of a very simple and effective means, without the necessity of springs, rectangular-shaped cavities with ribs, and other similar devices. The jaws D are each formed upon their inner face with a recess, *e*, which increases in size at its inner end, as shown in Fig. 4; or, in other words, a tapering recess increasing in size in a direction toward the inner end. The extremity of the shank of the tool *a* is in form to correspond to the form of the recess in the jaw. Thus when the jaws are brought together against the shank by the sleeve C it will be impossible for the tool to drop out or work loose.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the tool-handle having the circular recessed exteriorly-screw-threaded socket B, and the semicircular gripping-jaw shanks provided with shoulders *f*, engaging the recess their entire lengths, with their shoulders abutting against the lower edge of the socket, and the pin *d*, passing through said socket and shanks, of the interiorly-screw-threaded sleeve C, having the wings *b* engaging the threads of the socket, and provided with shoulder *g*, to engage the shoulders of the shanks when the jaws are brought together to secure the tool, as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN S. FRAY.

Witnesses:

JAS. B. LOBDELL,
JOS. T. FRAY.