

P. A. GLADWIN.
Tool Handle.

No. 202,105.

Patented April 9, 1878.

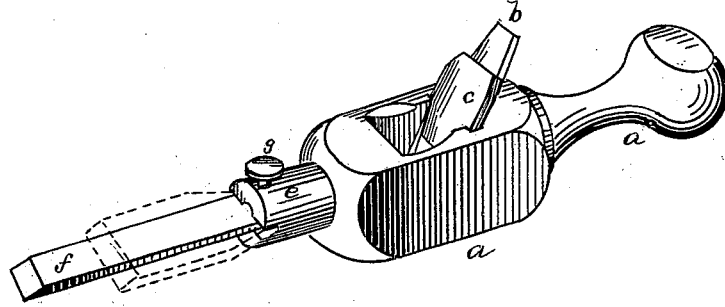


Fig. 1.

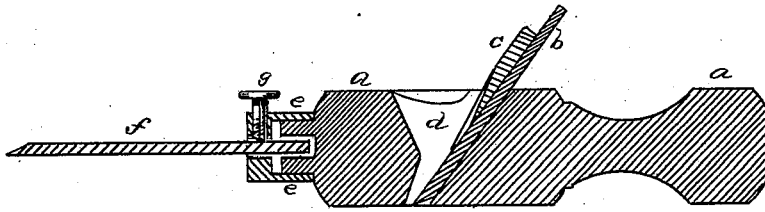


Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN TOOL-HANDLES.

Specification forming part of Letters Patent No. **202,105**, dated April 9, 1878; application filed March 4, 1878.

To all whom it may concern:

Be it known that I, PORTER A. GLADWIN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Tool-Handles, of which the following is a specification:

This invention relates to handles of tools of different kinds, such as chisels, screw-drivers, &c.; and consists in the combination with and insertion in such handle of a plane-iron and necessary adjuncts, so that the said handle, being made flat upon at least one side, may be used and operated as a plane. The tools are usually arranged to be removable from the handle.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a view, in perspective, of a tool-handle and tool embodying my invention. Fig. 2 is a longitudinal section of the same.

a represents a tool-handle. *e* is the ferrule, and *f* a tool, which is held in the slot in said ferrule by means of the set-screw *g*. A tool of any kind may be placed in the handle by loosening the screw *g*. A suitable opening, *d*, is cut in the handle, (which is made sufficiently large for the purpose,) and the plane-iron *b*

and wedge *c* inserted therein. The side of the handle through which the cutting-edge of the plane-iron projects is made nearly or quite flat. It will thus be seen that the tool-handle *a* can be used as a handle or as a plane, as desired. When used for the latter purpose, the tool *f* is usually removed.

The broken lines in Fig. 1 represent the plane-iron inserted in the ferrule *e*—an arrangement which is sometimes convenient.

The device may be made of wood, metal, or any suitable material.

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

The hereinbefore-described improvement in tool-handles, consisting of the handle *a*, provided with the described arrangement for holding different tools, and having the opening *d* cut therein for the purpose of accommodating the plane-iron *b*, the said handle being made flat, or nearly so, upon the under side, all substantially as described.

PORTER A. GLADWIN.

Witnesses:

HENRY W. WILLIAMS,
JOHN E. FRENNING.