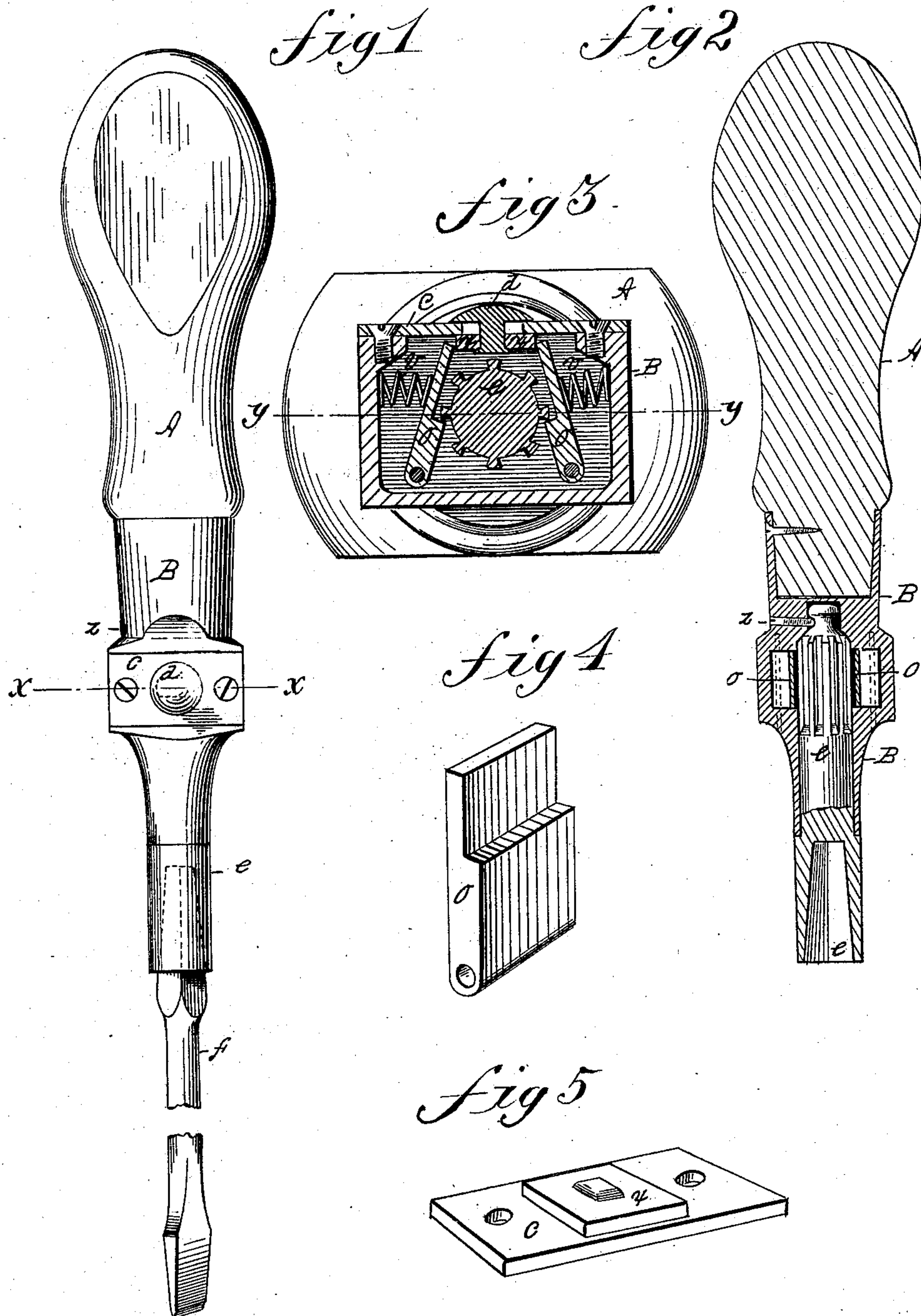


(No Model.)

W. E. THAYER.  
RATCHET TOOL HOLDER.

No. 291,007.

Patented Dec. 25, 1883.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM E. THAYER, OF WILLIAMSBURG, MASSACHUSETTS.

## RATCHET TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 291,007, dated December 25, 1883.

Application filed July 18, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. THAYER, a citizen of the United States, residing at Williamsburg, in the county of Hampshire and State of Massachusetts, have invented new and useful Improvements in Ratchet Tool-Holders, of which the following is a specification.

This invention relates to an improved ratchet tool-holder adapted to be used with a variety of small tools—such as screw-drivers, reamers, boring-tools, &c.—the object being to provide in convenient form an improved tool-holder of this class, combining with a handle a suitable tool-shank socket, ratchet devices, and a ratchet-case, as hereinafter set forth.

In the drawings forming part of this specification, Figure 1 is an elevation of a ratchet tool-holder embodying my improvements. Fig. 2 is a view partly in section on the line *y y*, Fig. 3. Fig. 3 is an enlarged sectional view on the line *x x*, Fig. 1. Figs. 4 and 5 are detail views.

A is a handle, of the form usually used on screw-drivers and similar tools.

B is a ratchet and tool-holder case, provided at one end with a suitable socket to receive one end of handle A, the latter being secured therein by a screw or pin, or in any other suitable manner. Said case B is made of metal, and is provided with a chamber of rectangular form, having pivoted therein two vibratory pawls, *o o*, behind each of which are springs *v*, to force said pawls toward the center of said chamber. A cover, *c*, is secured on one side of said chamber, having therein a slide-button, *d*, to which, on the inside of said cover, is secured a plate, *x*. By sliding said button on said cover, plate *x* is carried against either one of the pawls *o* to swing it away from engagement with the ratchet-teeth on the tool-holder

*e*, and by leaving said button in a central position, as in Fig. 3, both of said pawls are in engagement with said teeth and prevent the holder *e* from turning in either direction in the case B; or, in other words, said pawls compel the holder *e* to rotate in either direction when the case B is turned.

A tool-holder, *e*, having ratchet-teeth cut thereon, as shown in Figs. 2 and 3, and provided with a socket in its outer end for receiving the ordinary taper-square shank of the screw-driver *f* and other small tools, is fitted to rotate in the case B between the pawls *o*. The inner end of the holder *e* is necked down and provided with a groove around it, and a screw, *z*, in case B, has its end projecting into said groove, whereby the holder is retained in the case.

The holder *e* is constructed from steel, to the end that the ratchet-teeth thereon may be strong and durable, and that its socket end may withstand, without breaking, any torsional strain to which it may be subjected in use.

What I claim as my invention is—

In a tool-holder, the case B, provided with means for securing the handle A thereto, and having a chamber therein, the tool-holder *e*, passing through the lower part of case B and its chamber in a line with the handle, and having ratchet-teeth formed thereon, the pawls *o o*, pivoted in the case-chamber on opposite sides of the tool-holder, the springs *v*, located between the pawls and the sides of the case, the plate *x*, and the slide-button *d*, all combined and operating substantially as set forth.

WILLIAM E. THAYER.

Witnesses:

OLIVER WALKER,  
GEORGE L. METCALF.