No. 754,739. PATENTED MAR. 15, 1904.

A. A. BLICKLE.

COMBINATION TOOL.

APPLICATION FILED JAN. 6, 1904.

NO MODEL.

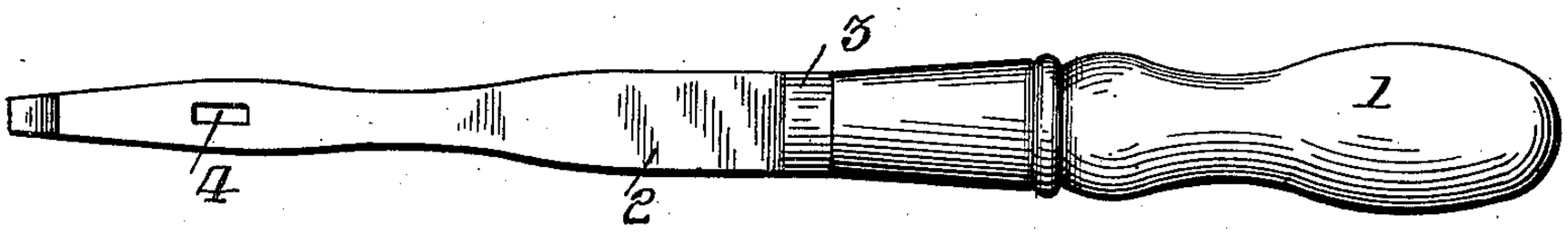

Fig. 1.

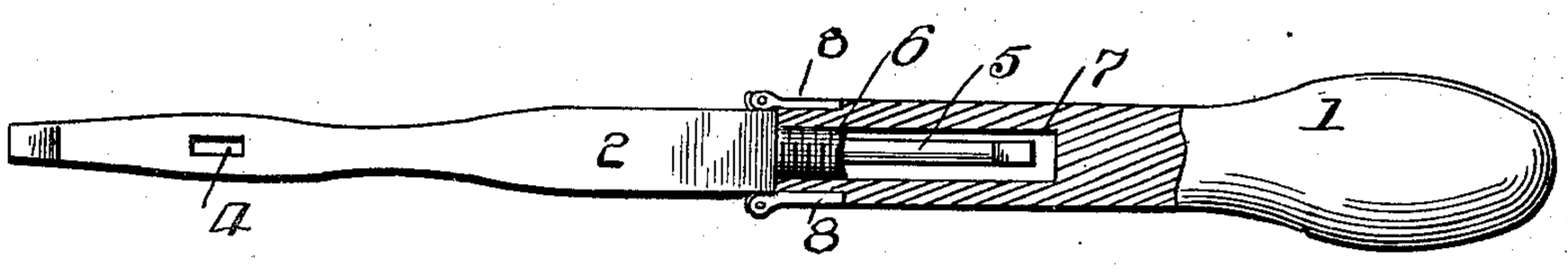

Fig. 2

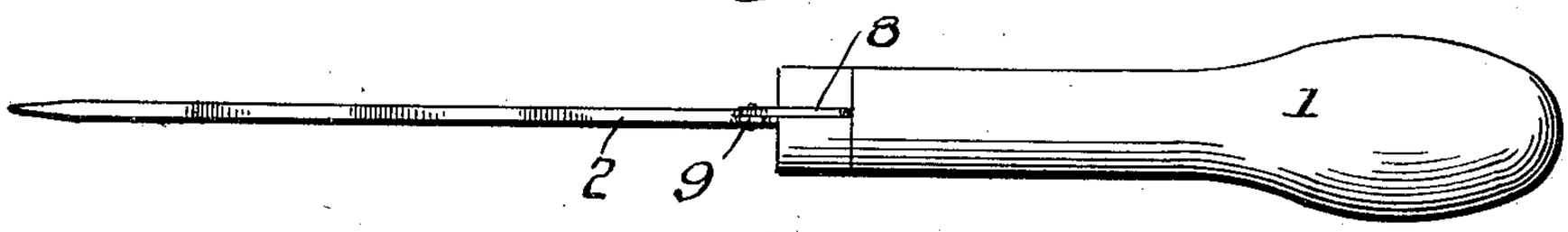

Fig. 3.

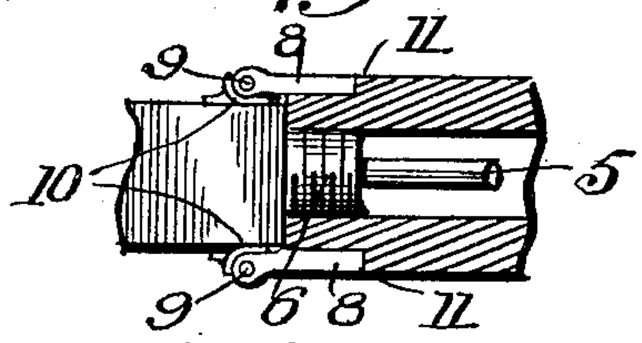

Fig. 4.

Witnesses:
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No. 754,739. Patented March 15, 1904.

UNITED STATES PATENT OFFICE.

ALICE A. BLICKLE, OF ALLEGHENY, PENNSYLVANIA.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 754,739, dated March 15, 1904.

Application filed January 6, 1904. Serial No. 187,911. (No model.)

To all whom it may concern:

Be it known that I, ALICE A. BLICKLE, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in combination-tools, and has for its object to provide a tool of this character wherein a screw-driver, wrench, and auger are combined in one tool, each of which is so arranged as to be independently used when desired.

Another object of my invention is to provide a combination-tool of three separate and distinct tools which will be so constructed whereby they will occupy a comparatively small space and the change of one tool to another can be readily accomplished by the party manipulating the same.

Briefly described, my combination-tool takes the form of a screw-driver, and in the blade of said screw-driver I provide an elongated aperture which is adapted to be used as a spanner-wrench to wind the springs carried by curtain-rollers, and formed integral with the blade of the screw-driver I provide an auger and a screw-threaded portion intermediate thereof whereby the auger may be secured in the handle of the screw-driver when not in use, means being provided to prevent the blade of the screw-driver from rotating when it is used as the same.

The invention further consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this application, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a side elevation of my improved combination-tool. Fig. 2 is a modified form thereof. Fig. 3 is a side elevation of a modified form. Fig. 4 is a detail view showing the locking means employed thereon.

In carrying out my invention I provide a handle 1, in which is secured the blade 2 of the screw-driver, this blade being secured in the handle by the ordinary means and held therein by the ferrule 3. In the blade 2 of the screw-driver I provide an elongated aperture 4, which is adapted to be used as a spanner-wrench when so desired. Heretofore considerable trouble has been experienced in winding the springs of shade-rollers, and I provide this elongated aperture or slot, whereby it may be placed over the end of the drum of the spring and the drum readily rotated to wind the spring of the shade-roller.

In Figs. 2, 3, and 4 of the drawings I have illustrated a modified form of combination-tool wherein I provide an auger 5, formed integral with the rear end of the blade 2 of the screw-driver, an intermediate screw-threaded portion 6 being provided to secure the blade of the screw-driver within the handle 1, this handle being provided with a recess 7 to receive the auger 5. When it is desired to use the screw-driver, I provide means to prevent the same from becoming loose from the handle during its rotation, and to securely hold the blade from rotating separate from the handle I employ two lugs 8, which are pivoted to the edge of the blade 2, as indicated at 9, these lugs being held in engagement with the handle of the tool by means of the springs 10, and I provide recesses or cut-away portions 11 in the handle to receive these lugs.

It will thus be seen that by this construction in order to disengage the handle from the blade of the screw-driver the lugs 8 will have to be raised and held in this position while the handle is rotated to disengage the threaded shank 6 from the recess 7 of the handle. It will readily be seen that I may employ any desired instrument in connection with the screw-driver blade which can be operated or used without the handle 1 and that I may also form any desired shape of aperture within the blade

of the screw-driver whereby the same may be used as a spanner-wrench for different purposes.

It will be obvious that various slight changes may be made in the details of construction without departing from the general spirit of my invention.

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

1. In combination with an interiorly-threaded recessed handle, a blade having an intermediate threaded portion, for engagement with said threaded-handle recess, and a pair of spring-pressed fingers carried by the blade to be received in recess on the handle provided therefor.

2. In combination with a recessed handle, a blade, having a portion thereof extending into said handle-recess, and a pair of spring-pressed fingers carried by the blade and received in recessed portions provided therefor in the handle.

In testimony whereof I affix my signature in the presence of two witnesses.

ALICE A. BLICKLE.

Witnesses:
H. C. EVERT,
E. E. POTTER.