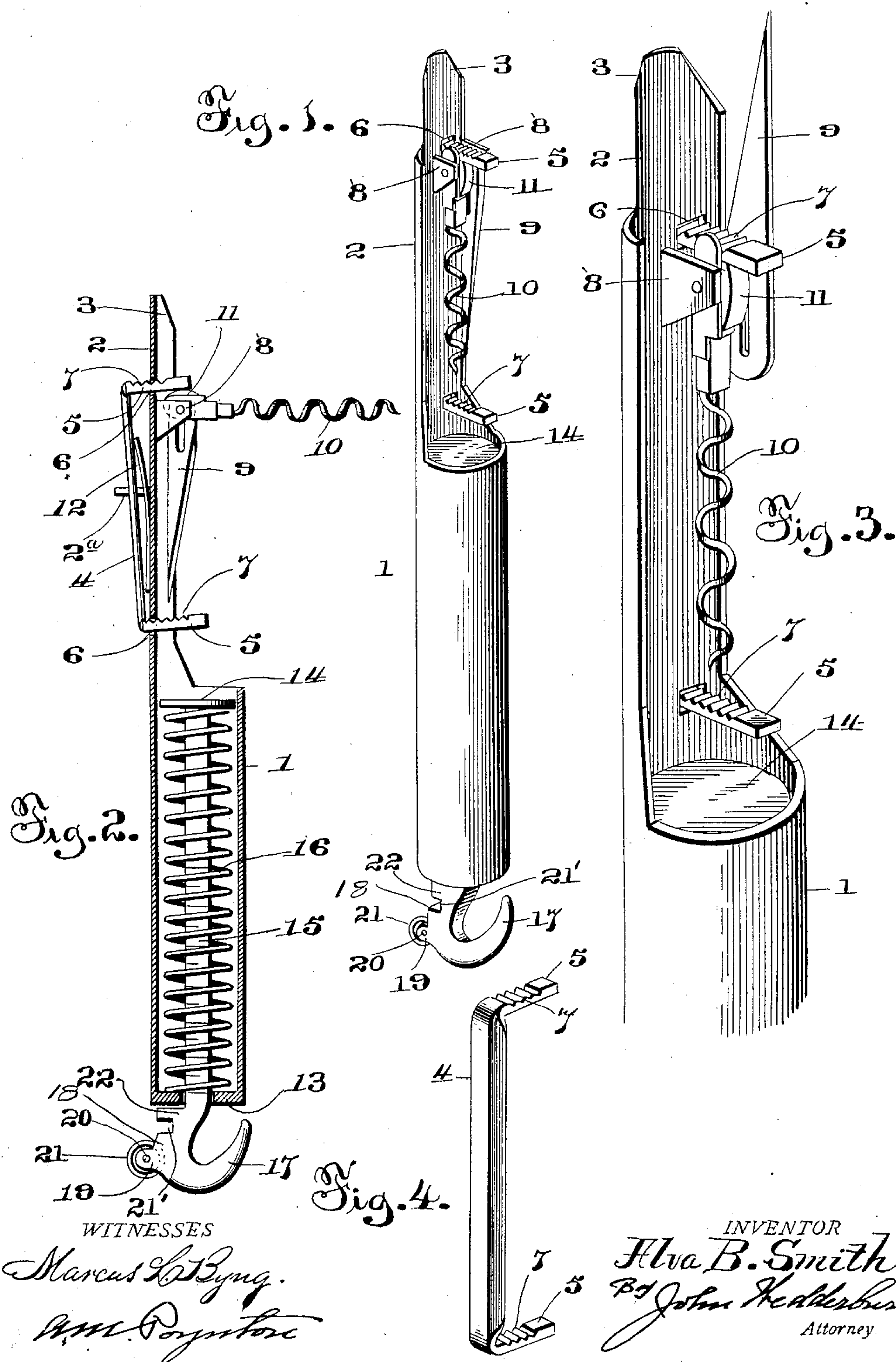


A. B. SMITH.
COMBINATION TOOL.

Patented Apr. 5, 1898.



UNITED STATES PATENT OFFICE.

ALVA B. SMITH, OF OAKLAND, TENNESSEE.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 601,737, dated April 5, 1898.

Application filed March 12, 1897. Serial No. 627,138. (No model.)

To all whom it may concern:

Be it known that I, ALVA B. SMITH, a citizen of the United States, residing at Oakland, in the county of Fayette and State of Tennessee, have invented certain new and useful Improvements in a Combination-Tool; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in combination-tools adapted to provide a plurality of different tools or instruments in one, adapted for use especially as a household article.

My invention consists in certain details of construction, combination, and arrangements of parts, as will be hereinafter described, and specifically set forth in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view of a combination-tool constructed in accordance with my invention. Fig. 2 is a longitudinal section view of the tool. Fig. 3 is an enlarged detail view of the core-blade extension and parts connected therewith; and Fig. 4 is a detail perspective view of the paring-blade, showing the construction of the same.

Referring to the drawings, the numeral 1 designates the case or handle of the tool, which is approximately cylindrical in cross-section. This handle is reduced at one end or provided with a curved or nearly semicylindrical extension 2, the outer end 3 of which is reduced and formed into a cutting-blade designed especially for removing cores or specked portions from fruit or the eyes from potatoes for planting. A paring-blade 4 has position beneath the extension-piece 2 and is provided with two right-angularly-bent ends 5, projecting through slots 6 in said extension. A tongue 2^a, bent downward from the extension 2, forms a guide or guard for the blade 4. The sides of these angularly-bent ends are provided with teeth or serrations 7, adapted to engage the metal at the sides of the slots and thus hold the blade in the proper position to which it is set. The extension 2 of the handle is provided with pivot-posts 8, and a can-opening blade 9 and corkscrew 10 are pivoted to a pivot-pin connected with said posts. The heel 11 of the corkscrew is curved and is

adapted to bear against one of the said angularly-bent ends 5 of the paring-blade 4, so that by moving the corkscrew the said blade may be adjusted relatively to the bottom of the handle extension in order to regulate the depth of cut made by it. This paring-blade 4 is normally projected outward from the handle extension 2 by means of a spring 12 acting thereon, but may be adjusted against the tension of the spring as desired to regulate the depth of cut. The manner of use of the can-opening blade 9 will be readily understood.

The handle or cylinder 1 is closed at its outer end by a fixed head 13, having a slot or opening through which a scale beam or bar 15 moves. The inner end of this bar carries a blade or head 14, which when the bar is retracted closes the inner end of the cylinder or handle and prevents entrance of dust or dirt thereto. A spiral spring 16 incloses the scale-beam between the said fixed and movable heads 13 14 of the handle or cylinder. The scale beam or bar 15 is provided with graduations along one side designating weight and the outer end of said beam or bar is provided with a hook 17. The construction of the handle or cylinder, scale beam or bar, and the parts just described provides a spring-balanced scale by means of which the weight of articles may be readily and quickly ascertained. The articles to be weighed are suspended from the hook 17.

The rear side or head 18 of the hook is provided with two spaced ears 19, through which passes a pivot-pin 20, on which a glass-cutting disk 21 is mounted. Adjoining said ears the hook is provided with a cross-notch 21', into which the edge of the glass which has been cut is inserted and nipped or wrenched off. The inner end of the head 22 adjacent the notch constitutes a stop which abuts against the fixed head 13 of the handle or cylinder and limits the inward movement of the scale bar or beam. The ears 19, and consequently glass-cutting disk 21, project below or beyond the surface of the handle or cylinder in order to permit freedom of movement in the glass-cutting operation.

My invention provides a simple and durable construction of combination implement for household use, which may be utilized for

a variety of purposes, which can be manufactured at a comparatively small cost, and which possesses advantages peculiar to its construction alone.

5 Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a tool of the class described, the combination of a handle having an extension
10 formed at its outer end into a coring-blade, a paring-blade having position below the extension, and provided with angularly-bent ends extending up through openings in said extension, means for adjusting the said par-
15 ing-blade relatively to the extension, and means auxiliary to the said adjusting means for holding the paring-blade in adjusted position, substantially as described.

2. In a tool of the class described, the combination of a tubular handle provided with
20 an extension having its outer end formed into a substantially semicircular coring-blade, a paring-blade below the said extension and provided with angularly-bent ends project-
25 ing through openings in said extension and having teeth or serrations to engage therewith, a spring to normally project the said paring-blade outwardly from the extension, and means for holding the said blade against the
30 tension of the spring, substantially as described.

3. In a tool of the class described, the combination of a handle provided with an exten-

sion having the outer end thereof formed into a coring-blade and provided with openings, 35
a paring-blade having position below the extension and provided with right-angularly-extending ends projecting through said openings, and a corkscrew pivoted to the said extension and having its heel end adapted to
40 bear against one of the said ends of the paring-blade and by frictional contact therewith hold the said blade relatively to the said extension, substantially as described.

4. In a tool of the class described, the combination of a handle provided with an extension having its outer end formed into a coring-blade, a paring-blade extending parallel
45 with the said extension and provided with bent ends projecting through said extension, a spring to normally press the blade outward from the handle extension, and a corkscrew pivoted to the extension and having its heel
50 end bearing against one of the angularly-bent ends of the paring-blade, whereby, by moving the said corkscrew, the paring-blade may be held against the tension of the said spring, substantially as described. 55

In testimony whereof I have signed this specification in the presence of two subscribing witnesses. 60

ALVA B. SMITH.

Witnesses:

J. V. ALEXANDER,

R. E. FREEAR.