No. 727,356. PATENTED MAY 5, 1903.

H. K. HARBAUGH.

COMBINATION TOOL.

APPLICATION FILED APR. 22, 1902.

NO MODEL.

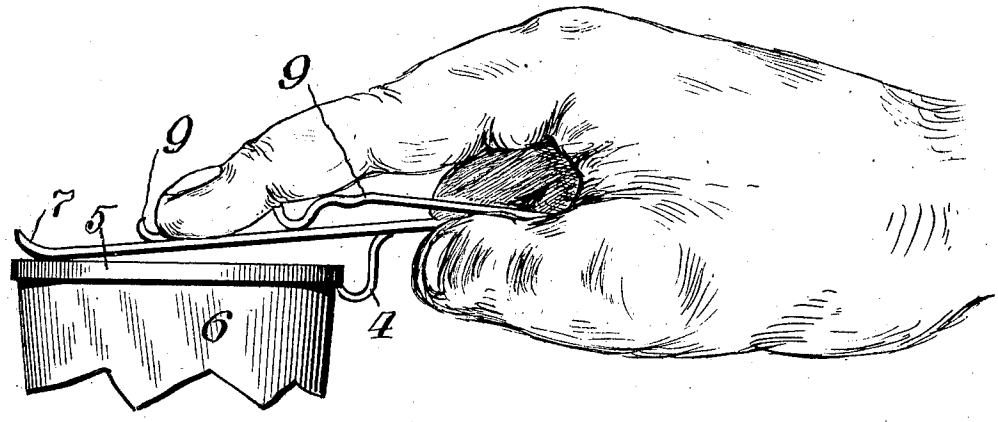


Fig. 1.

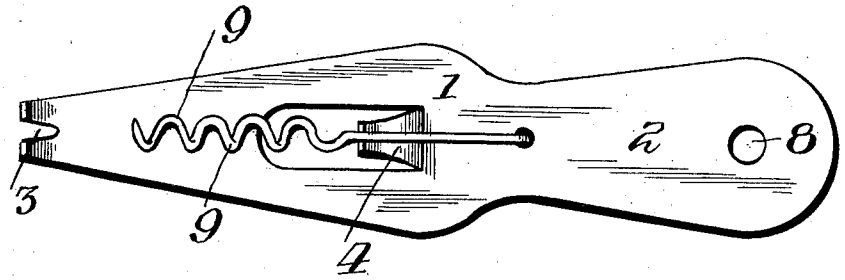


Fig. 2.

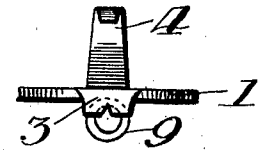


Fig. 3.

Witnesses:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 727,356. Patented May 5, 1903.

UNITED STATES PATENT OFFICE.

HARRISON K. HARBAUGH, OF PITTSBURG, PENNSYLVANIA.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 727,356, dated May 5, 1903.

Application filed April 22, 1902. Serial No. 104,152. (No model.)

To all whom it may concern:

Be it known that I, HARRISON K. HARBAUGH, a citizen of the United States of America, residing at Pittsburg, 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 compound tools, the object being to provide a handy and effective tool embodying a can-opener and other devices in a compact form and in a form which may be manufactured extremely cheap.

Briefly described, the invention embraces a can-opener, which forms the body of the tool, shaped at one end to form the fulcrum for the device when being used as a can-opener and as a tack-puller when not used as a can-opener. This blank is stamped out, and during the stamping operation the claw which is engaged with the lid of the can to disengage the same is simultaneously formed with the shaping or cutting of the blank. Swiveled in the blank at a convenient and suitable point is a corkscrew, thus forming a tool for several purposes, as will be readily apparent and as will be further explained hereinafter.

The invention consists in the novel construction and arrangement, as will be hereinafter more specifically described and then particularly pointed out in the appended claim, and in describing the invention in detail reference will be had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference will be employed to indicate like parts throughout the different views, in which—

Figure 1 is a side elevation of the device as employed for removing tops from cans, glasses, jars, or the like, showing the manner in which the same is used for this purpose. Fig. 2 is a top plan view of the device, and Fig. 3 is an end view thereof.

My invention more specifically relates to the can-opener, or, in other words, to the tool for removing the lids of cans, glasses, jars, or the like, and will be specifically described to this end.

The tool embodies an integral handle and body, the body 1 and handle 2 being stamped from a single sheet of metal, preferably from pressed steel, as this material has been found to give the best results. The handle 2 is suitably shaped, and the body 1 tapers toward the end opposite the handle, and this end is turned upwardly to form claws 3, separated by the V-shaped notch cut in the end of the body. This turned-up end is in the form of an arc, the lowest point of which forms a point of engagement with the lid. The body is also cut out in a somewhat U-shaped form, and the material inclosed within this cut is forced downwardly and then upwardly to form a hook-claw 4, which is adapted to engage underneath the lid 5 of the can or glass 6, while the rounded fulcrum 7, formed by bending up the outer end of the body, rests upon the top of the lid 5 near the opposite side to that engaged by the claw-hook 4.

This tool, as above described, may be formed entire at the one operation, being stamped from sheet metal, as stated, and to form the same complete the one die—say, for instance, the male die—is constructed with means to form the claws 3 and with means to cut out the U-shaped opening in the body, while a follower employed in connection with the die forms the claw-hook 4 into shape within the female die. The handle may be provided with an aperture 8 near one end, as shown, for hanging the tool in a convenient place.

In connection with the tool, as described, I preferably attach thereto a corkscrew 9. The aperture in the handle in which the shank of this corkscrew is swiveled is formed therein with the stamping of the body and handle into shape. The shank is secured to the blank by bending the rear end of the shank at right angles to the shank itself, and when doing this I have found it desirable to form slight offsets at opposite sides of the shank, just at the bend, which will serve to prevent the shank working through or having lateral play in the aperture, the shank being suitably held, preferably, by slightly tapping the inserted end thereof so as to head the same, and thus hold the same in the blank.

The tool is extremely inexpensive to manufacture and is placed on the market at a very small cost and is especially designed for re-

moving the tops or lids (which are generally made of tin) from glasses, jars, and the like, as shown in Fig. 1 of the drawings, and in its manufacture it will be observed that various slight changes may be made 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—

As a new article of manufacture, a can-opener stamped from flat sheet metal the body portion of which tapers toward its front end, said end being turned upwardly in the form of an arc, the lowest point of which forms an engagement with the top of the can-lid, the rear end of the body having a handle formed integral therewith, said body having a portion thereof struck out and bent downwardly beneath the plane of the body, the end of said struck-out portion being bent upwardly to engage the edge of the can-lid, substantially as described.

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

HARRISON K. HARBAUGH.

Witnesses:

JOHN NOLAND,

E. E. POTTER.