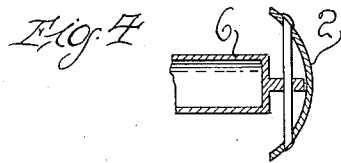
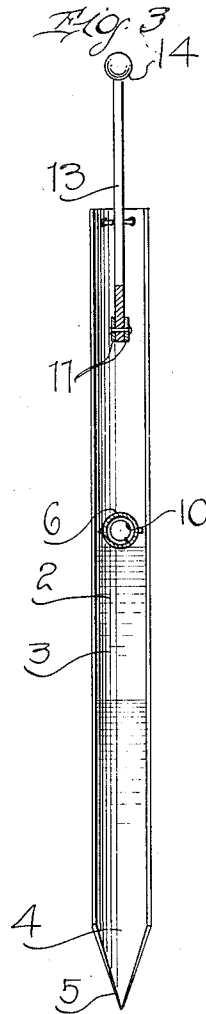
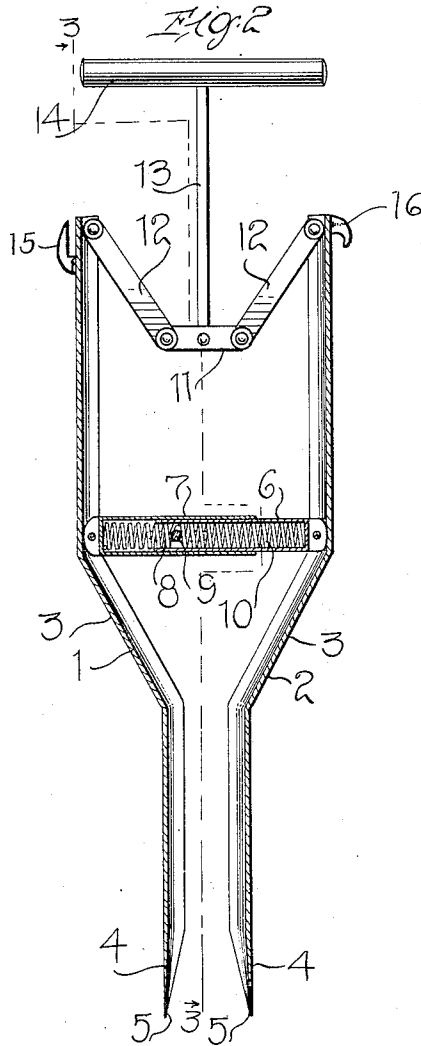
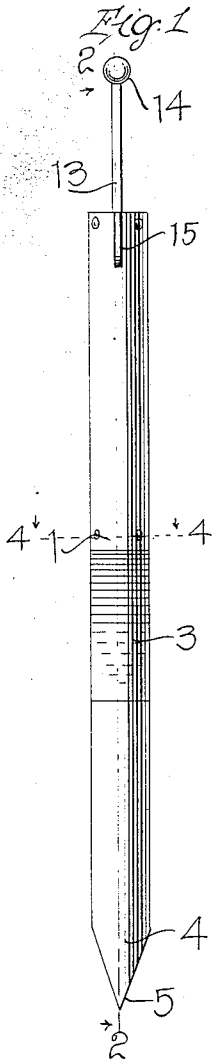


J. C. DODSON.
COMPOUND TOOL.
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1,120,914.

Patented Dec. 15, 1914.



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JAMES C. DODSON, OF RAMAH, COLORADO.

COMPOUND TOOL.

1,120,914.

Specification of Letters Patent.

Patented Dec. 15, 1914.

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To all whom it may concern:

Be it known that I, JAMES C. DODSON, citizen of the United States, residing at Ramah, in the county of El Paso and State of Colorado, have invented certain new and useful Improvements in Compound Tools, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to new and useful improvements in combination tools and more particularly to a device which is especially adapted for use as a cork extractor, the main object of the invention being to provide a device of the above character whereby various size corks may be readily extracted from the neck of the bottle and the device may be used equally as well for coring apples or opening cans.

20 Another object of the invention is the provision of a tool of the above character which will possess advantages in points of efficiency, is inexpensive to manufacture and at the same time is simple in construction and operation.

With the above and other objects in view as will become apparent as the description proceeds, the invention consists in certain constructions, combinations and arrangements of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which—

35 Figure 1 is an edge elevation of a tool constructed in accordance with my invention; Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1; Fig. 3 is a similar view taken on the line 3—3 of Fig. 2; and Fig. 4 is a transverse section taken on the line 4—4 of Fig. 1.

40 In carrying out my invention, I provide two resilient arms indicated by the numerals 1 and 2 which are preferably constructed of thin sheet steel and of U shaped form in cross section, as indicated in Fig. 4. The inner ends of the arms 1 and 2 are arranged in spaced parallel relation and at their medial portions they are converged inwardly as shown at 3 and then bent outwardly again and arranged in spaced parallel relation to form the gripping fingers 4, which taper toward their outer ends into a point as indicated at 5, whereby they may

be readily inserted within the neck of the bottle between the cork and the bottle, and it will be readily apparent that by having the same formed U shape in cross section, they will readily conform to the curvature of the neck of the bottle and the cork, so that when the fingers 4 are pressed together, they will readily grip the cork to withdraw the same from the neck of the bottle.

60 Connected to the inner sides of the arms 1 and 2 at the upper ends of the convergent portions 3 are the telescoping tubes 6 and 7, the tube 7 being provided with a longitudinal slot 8 in which the pin 9, carried by the tube 6 is adapted to be arranged, so as to limit the outward sliding movement of the tubes. Arranged within these tubes is a coil spring 10, the tension of which retains the arms 1 and 2 in an open or inoperative position. From this construction, it will be apparent that when the inner spaced portions of the arms 1 and 2 are spread apart, the coil spring 10 will be placed under tension so that when the arms 1 and 2 are released, the tension of the spring will return the same to their normal or inoperative position.

75 Arranged between the inner ends of the arms 1 and 2 is a connecting block 11 which is pivotally connected to the inner ends of the arms 1 and 2 by means of the links 12. One end of each of said links is pivotally connected to the inner ends of the arms and the other end pivotally connected to the opposite ends of the block 11. Connected to the central portion of the block and projecting outwardly between the arms, is an actuating rod 13 having a handle 14 on its outer end whereby the same may be readily actuated to spread the inner ends of the arms 1 and 2 and press the gripping fingers 4 around the cork so that the same may be readily withdrawn.

85 It will be apparent that my improved device can be used for coring apples by pressing the fingers 4 together so that they will conform to the size of the core. The points 5 are then inserted within the apple and the device turned half way around and then withdrawn. It will be noted that the sharp edges of the fingers 4 will readily cut the core from the apple.

100 Secured to the inner end of the arm 1 and disposed upon the outer side thereof, is a can opening knife indicated by the numeral 110

15 which is rigidly secured in such a manner that the same may be readily used for opening fruit or vegetable cans.

From the above it will be readily apparent 5 that I have provided an improved compound tool which may be readily used for extracting corks, coring apples and opening fruit and vegetable cans.

In extracting corks from bottles, the en- 10 gaging fingers 4 are first inserted within the neck of the bottle between the neck and the exterior of the cork. The handle 14 is then grasped and the block 11 drawn outwardly so that the connecting links 12 will 15 force the inner ends of the arms 1 and 2 outwardly and securely engage the fingers 4 with the cork. Further outward pulling movement on the handle 14, will cause the fingers 4 to grip the cork sufficiently so that 20 the same may be readily withdrawn from the neck of the bottle. It will be noted that as the inner ends of the arms 1 and 2 are spread outwardly, the coil spring 10 will be placed under tension and as soon as the handle 14 is released, the tension of the spring 10 will readily return the arms to their normal or inoperative position.

My device, herein described and shown, is extremely simple in construction and can 30 be manufactured at comparatively small cost.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of 35 construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any

of the novel features or departing from the scope of the appended claim.

Formed integral with the upper end of the 40 arm 2 and arranged directly opposite the can opening knife 15, is a hook member 16 which is preferably used for removing caps from bottles and the like.

Having thus described the invention, 45 what is claimed is:

A device of the class described including a pair of arms arranged in parallel relation, the medial portions of said arms being converged toward each other, said arms being 50 bent at the ends of the converging portions to form clamping fingers adapted to be normally disposed in parallel relation, said arms and fingers being arcuate in cross section, means connecting said arms, said means 55 consisting of telescoping tubes arranged between the arms, a coil spring arranged within the tubes to permit lateral movement of the arms and fingers, pivoted links carried by the upper ends of the arms, said spring 60 and links normally retaining said arms and fingers in parallel relation, and a connecting block pivotally connecting the links, and a handle carried by the block whereby pulling power thereon will expand the upper ends 65 of the arms and place the spring under tension, the tension of the spring returning the arms to their normal position.

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 70
JAMES C. DODSON.

Witnesses:

J. W. WHITE,
C. H. SEGER.