

1,059,883.

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COMBINATION-TOOL.

1,059,883.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH E. LEPAGE, a citizen of the United States, residing at Two Harbors, in the county of Lake and State of Minnesota, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in combination tools.

The object of my invention is to provide a combination tool in the form of a small hand ax or hatchet and combining therewith a number of useful household implements.

Another object of my invention is to provide a tool of this character in which the several parts are so constructed and arranged that they work in conjunction with each other to perform the necessary functions for which they are adapted.

In the accompanying drawings—Figure 1 is a side elevation of my improved tool, the handle shown broken for convenience in illustration. Fig. 2 is a top view of the same. Fig. 3 is a perspective view of an auxiliary attachment. Fig. 4 is a longitudinal sectional view of the extreme outer end of the handle, and Fig. 5 is a perspective view of the claw attachment.

1 represents the head of my improved tool being made of metal and preferably hollow, one end 2 of which is cylindrical in shape and serrated as at 3, to provide suitable means for beating beefsteak or the like, and the opposite end 4 is formed wedge-shaped and sharpened for use as a bone chopper or hatchet.

5 represents the handle which is preferably of metal, hollow and cylindrical in cross section and which may be securely attached to the head in any desired manner. A screw-threaded plug 6 is screwed within the extreme outer end of the handle 5 and provided with an opening through which loosely passes the scale-rod 7. The said rod is threaded for a considerable portion of its length upon which is screwed the index pointer 8, which is made of a size to snugly fit the interior of the handle and carries a projecting point 10 passing through the slot 9. The said point is of a considerable length and very sharp for a purpose hereinafter more fully described.

Snugly fitted upon the inner end of the plug 6 is the scale spring 11, which loosely

surrounds the scale rod 7 intermediate the plug 6, and pointer 8, providing the impingement necessary in spring scales and which may be accurately adjusted by the screwing in or out of the plug 6, it having the screw-driver slot 12 in its outer face for that purpose.

The end of the scale rod extending without the end of the handle is formed in the shape of the letter C and designated on the drawings by the letter C, which answers as a means for attaching goods to be weighed and this peculiar form provides an efficient crown-top bottle opener.

As above referred to, the pointer 8 is elongated as at 10 to act as a cutter for a can opener, the central pivoting point of which is the sprig 13, securely fixed to the side of the head 1. Thus when the sprig 13 is forced into the center of the top of the can to be opened the end 10 of the pointer 8 may be used as the cutter to cut out the end of the can. To adjust the distance between the sprig and pointer to suit the size of can being opened, the rod 7 may be revolved either way desired which will cause the pointer 8 to travel thereon, it being screw-threadedly mounted as before described. To keep the rod 7 in place for such occasions, or when the tool is hung up by the C shaped end of the rod and thus prevent a continuous pressure upon the spring 11, I provide a circular recess 14 near the inner end of the rod 7, which is engaged by the inner bifurcated end 15 of the slidable claw 16 adjustably and removably attached to the end 2 of the head 1. The claw 16 is pivotally mounted upon the outer wall of the head by the pivot 17 fixed to the claw and extending within the head through a suitable elongated opening therein, this pivot terminating in the cork screw 18, which forms a convenient instrument when the claw is removed from the head. The bifurcated end of the claw extends through a suitable slot 19 in the handle 5 adjacent the head 1 so as to enable it to reach the recessed end of the rod 7 and is held in place by the thumb screw 20, which is threaded within the head 1 and engages the claw 16 through the elongated opening 21 therein, thus when the thumb-screw is released, the claw may be withdrawn from engagement with the recessed end of the rod 7, and if the thumb-screw is entirely removed, the claw may be moved outwardly

until the bifurcated end disengages the rod and the slot 19 in the handle and the entire claw disengaged from the tool and used for bottle opening et cetera. The claw part of the member 16 is formed by the outer end 22, being turned at substantially right angles to the body portion thereof and is sharpened so that when in place upon the tool, it may be used much as the claws of a hammer and especially for prying open can stoppers and the like.

In the opposite wall of the head 1 to that of the handle is formed a circular opening 23. The edges of the opening are serrated and surmounting this opening and securely fastened to the head 1 are two semi-circular-shaped knives 24, so the instrument may be used as a chopping knife. These knives are preferably attached by means of rivets and the rivet 25 at the cylindrical end of the head 1 is formed with an enlarged head projecting somewhat within the head 1, and serrated upon its inner projecting face. This together with the inner end of the thumb-screw 20 adjustably projecting within the head opposite the rivet 25 forms a convenient socket wrench for the removing of threaded bottle stoppers as are in common use and are frequently so hard to turn off. The head 1 within the open outer end is provided with a rivet 26 which extends across the head and forms a stop to prevent the nut entering the head too far.

An auxiliary attachment 27 consists of a metal piece substantially one-half the length of the tool proper, substantially square in cross section at the butt-end and of a thickness somewhat less than the distance between the knives 24 and its opposite end tapered and flattened to a claw 29 to be used for pulling tacks and the like and also as a screw driver for adjusting the plug 6 before described, the claw being bifurcated will readily straddle the rod 7 in this operation.

Extending from each side of the butt-end of the auxiliary attachment 27 is a short pin 28, which are designed to engage the notch 29 in the inner walls of the semi-circular knives 24 when the piece 27 is inserted between them and held in the position shown in dotted lines Fig. 1, thus forming a convenient and handy nut cracker as the face of the attachment 27 adjacent the hole 23 in the head is serrated somewhat to prevent slipping of the nut to be cracked.

An eyelet 30 is attached to the attachment 27 by means of which it may be hung up.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. The combination with a hollow handle of a tool, a spring-scale beam within said handle, a pin carried by the tool and a pointer carried by the scale-beam and having a knife edge and adapted to coöperate

with the pin carried by the tool to form a can opener.

2. The combination with a hollow handle of a tool, a spring scale beam within said handle and having its end extending beyond the end of the handle and having a supporting hook in the form shown and for the purpose described, a pointer having a knife edge carried by the handle and extending through a longitudinal slot in the handle and a pin carried by the tool and forming a pivot to work in conjunction with the pointer to form a can opener.

3. The combination with a hollow handle of a tool, a scale beam within the handle, a pointer carried by the beam and extending outwardly through the handle and having a knife edge and forming a cutter, and a pin carried by the tool forming a pivot to work in conjunction with the pointer which forms a knife to open a can.

4. The combination with the hollow handle of a tool, a plug within the outer end of the handle, a scale beam within the handle and extending upwardly through the plug, a pointer carried by the beam intermediate its ends and extending through a slot in the handle and having a knife edge, a coiled spring surrounding the beam between the pointer and the plug, a pin carried by the tool and means for locking the rod against longitudinal movement whereby the pointer in conjunction with the pin serves as a can opener.

5. The combination with the hollow handle of a tool, a scale-beam within the handle, a pointer secured to the beam and extending upwardly through a longitudinal slot in the handle and having a knife edge and adapted to form a cutter for the can opener, a pin carried by the tool, the inner end of the scale beam having a circular groove and a sliding member carried by the head of the tool and extending within the hollow handle and adapted to enter the groove carried by the scale beam for locking the same against longitudinal movement when the pointer is used as a can opener.

6. The combination with a hollow handle of a tool, a scale beam extending within the handle and having its outer end formed into a hook, for the purpose described, a pointer carried by the beam and extending through a longitudinal slot in the handle and having a knife edge, a pin carried by the tool and means for locking the scale beam against longitudinal movement, whereby the pin and pointer form a can opener, substantially as described.

7. The combination with a hollow handle of a tool, having a slot therein, a scale beam within the handle and having one end extending beyond the handle and provided with a hook for the purpose described, a pin carried by the tool and a pointer carried by

the rod extending outwardly through the
slot in the handle and having a knife edge
and a removable member secured to the tool
and adapted to enter the handle and lock
5 the scale beam against longitudinal move-
ment, whereby the pointer serves as a knife
for a can opener.

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

JOSEPH E. LEPAGE.

Witnesses:

FRANK J. KONTING,
DENNIS DEVAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."