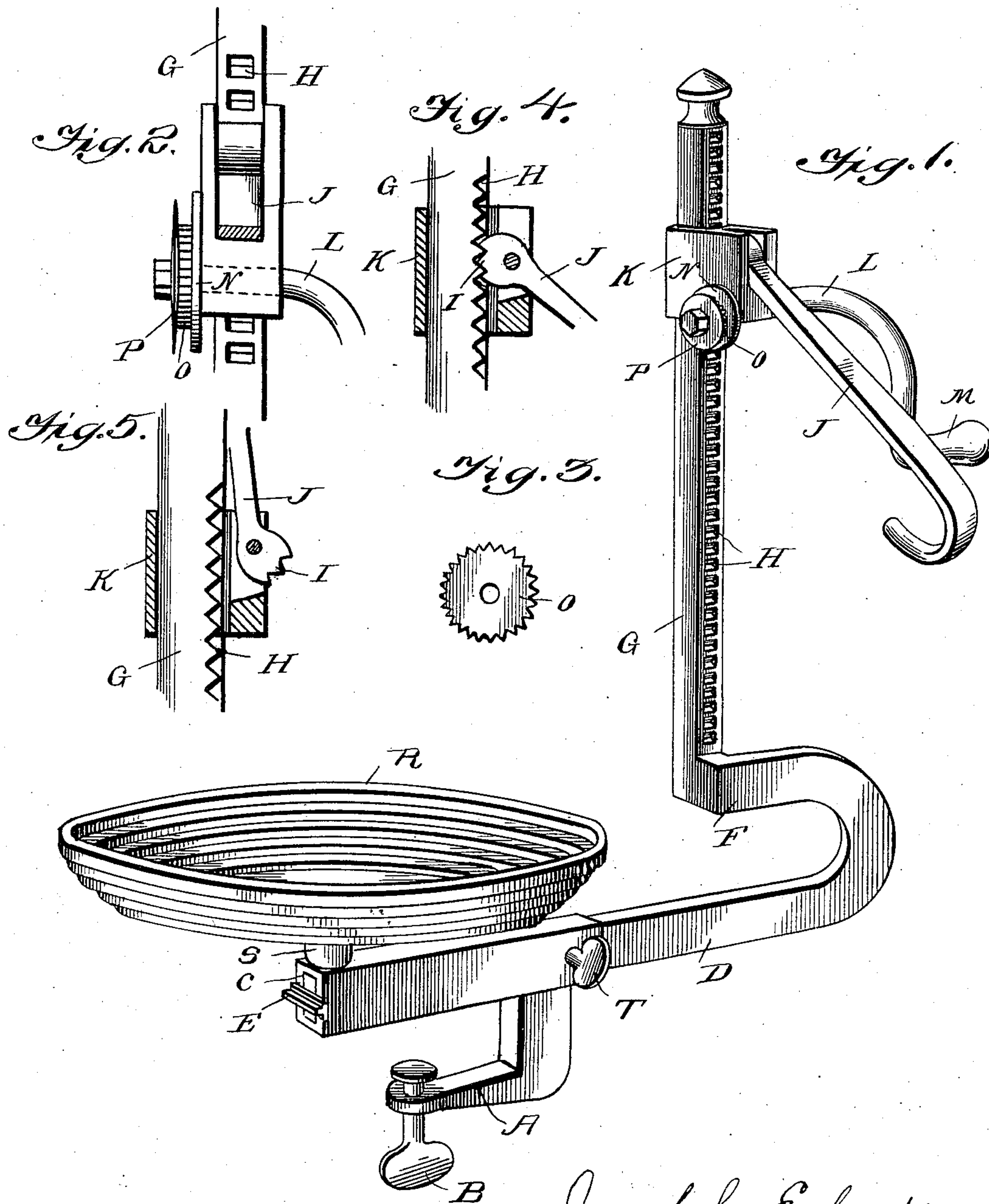


(No Model.)

J. E. CAMPBELL.
CAN OPENER AND BURNING DEVICE.

No. 576,547.

Patented Feb. 9, 1897.



Witnesses:

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UNITED STATES PATENT OFFICE.

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CAN-OPENER AND BURRING DEVICE.

SPECIFICATION forming part of Letters Patent No. 576,547, dated February 9, 1897.

Application filed May 4, 1896. Serial No. 590,162. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH E. CAMPBELL, of Fairfax Station, Fairfax county, Virginia, have invented certain new and useful Improvements in Can-Openers and Burring Devices, of which the following is so full, clear, and exact a description as will enable those skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved can-opener. Fig. 2 is an enlarged detail, partly in section, showing the toothed wheel and cutter. Fig. 3 is a detail view of the toothed wheel. Fig. 4 is a detail section showing the lever J in engagement with the teeth H. Fig. 5 is a detail section showing the lever out of engagement.

The object of my invention is to provide a can-opener and burring device by the use of which a can may be opened with the greatest ease in the shortest possible time and with the least expense of physical and mechanical force.

Another object of my invention is to provide a burring device by the use of which a bur is turned in around the inside of the top of the can as the cover is cut out, making a complete cut with a good stiff brim, which may be used without further treatment.

It is well known that can-openers generally cut a cover out of a can, leaving a ragged edge or a sharp edge, or both, whereas by the use of a device such as is shown and will be hereinafter described the cut will be continuous and the remaining portion of the lid will be hemmed in and burred down, obviating the disadvantages of the devices now in use.

Referring to the accompanying drawings, A designates a screw-clamp adapted to be secured to a table by a thumb-screw B.

C designates an opening through the clamp for the reception and accommodation of the arm D, which has a stop E secured to its lower end. It is curved U shape and has an arm F, to which is secured an upright standard G, provided with a series of notches or teeth H, which are engaged by teeth I on the lever J, pivoted within a sliding sleeve K, which em-

braces the toothed upright. A shaft L is adapted to extend through the collar or sleeve, and at one end it is provided with a washer N next to the collar and a toothed wheel O next to the washer and a cutter P beyond the wheel O, all secured in such a position that the toothed wheel travels around the top of the can or drives the top of the can around under it, and the cutter, which is of greater diameter than the wheel O, cuts a slit all around the top of the cover, and back of the cutting-point it turns the rim which is left on the can down around the edge of the can. A rotating die or can-supporting table is mounted loosely in the top of the clamp, as shown at S. A set-screw or other suitable lock T is provided for locking the arm which carries the cutter in any desired adjusted position to cut several cans of the same size. The rotating die or table is provided with a series of circular depressions to fit cans of varying sizes, or a sliding clamp may be used and mounted centrally, so that one general plane will accommodate cans of all sizes, while the clamp may be adjusted from two or more sides of the can to hold it in position.

When it is desired to open the can, the can is placed on the rotating die or table and the arm which carries the cutter is shoved toward the can until the edge of the can is in a vertical line running between the cutter and the washer, bringing the toothed wheel against the upper edge of the can. The lever which engages with the teeth in the upright is then depressed with one hand and the handle on the rotating shaft carrying the cutter is then rotated, driving the can around and removing the top and burring the remaining portion of the top around the edge of the can.

Having thus fully described my invention, what I believe to be new and of my invention, and what I therefore claim, is—

1. A can-opener of the character described, consisting of a rotating table; in combination with a standard supporting a rotatable shaft carrying a toothed wheel which rotates the can and also supporting a rotating cutter and means for holding the toothed wheel into engagement with the top of the can over the edge of the body and the cutter into engage-

ment with the cover within the line of the periphery of the body of the can, substantially as described.

2. A can-opener, consisting of a holder or
5 suitable support, a rotary table to support the can, a standard supporting an adjustable rotary cutter and a wheel for rotating the can and its support, said rotating wheel located between the rotary cutter and the standard,
10 substantially as specified.

3. In a can-opener and burring device, a rotating table formed solid and having a succession of circular recesses varying in size, in combination with a cutter and burring device,
15 vice, constructed to engage a can near its edge, as described, whereby the top may be cut from the can and the remaining rim burred over substantially as set forth.

4. In a can-opening device the combination
20 with a clamp having mounted thereon a rotary table, of a bent arm adjustably mounted in an opening in said clamp and a locking-clamp to hold said bent arm in any desired position with respect to the size of the can, a
25 standard, rising from the bent arm, a sliding sleeve mounted on said standard, and a rotary toothed wheel and cutter mounted on a shaft journaled in said sleeve, and a crank whereby the shaft may be rotated to turn the can, cut
30 the top thereof and bur the metal at the edge of the can, substantially as specified.

5. In a can-opening device, the combination of a rotary table mounted on a suitable support, a vertical standard, and adjustable laterally and a vertically-adjustable sleeve
35 adapted to slide upon said support, and means for locking it in an adjusted position, and a rotary toothed wheel and cutter mounted upon a shaft, journaled in the sleeve, whereby
40 the can is turned, the top cut and the metal upset at the edge of the can, substantially as specified.

6. The combination with the supporting-clamp, and rotary can-supporting table
45 mounted thereon, of the bent arm, adjustable laterally and secured in an opening in

said clamp, and adapted to overset the edge of the rotary table, a vertical standard secured to said arm and provided with a series of ratchet-teeth at one side, an adjustable
50 sleeve mounted on said standard and carrying the cutter and can-moving mechanism, and a lever, having a toothed sector adapted to mesh with the ratchet in order to press the cutter into the can-top and hold it to its work,
55 substantially as specified.

7. In a can-opening device, the combination of a rotary table, mounted upon a suitable support, a vertical standard secured to said support, a sliding sleeve adjustably mounted
60 on the standard, a rotary cog-wheel and cutter mounted upon a shaft journaled in the movable sleeve, said cog-wheel located between the cutter and the standard, and means for pressing the said wheel and cutter upon
65 the can, substantially as specified.

8. In a can-opener of the character described, a rotatable can-support, a standard supporting a rotating shaft which simultaneously rotates the can and cutter, and a cutter
70 secured to said shaft, a toothed wheel of less diameter than the diameter of the cutter, secured between the latter and the standard, substantially as described.

9. In a can-opener of the character described, a rotatable can-support, a standard supporting a rotating shaft which simultaneously rotates the can and cutter, and a cutter
75 secured to said shaft, a toothed wheel of less diameter, than the diameter of the cutter, secured between the latter and the standard and a rotating washer of a greater diameter than the diameter of the toothed wheel
80 secured on the shaft between the wheel and the shaft-support, substantially as described.

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

JOSEPH E. CAMPBELL.

Witnesses:

ROBT. F. DAVIS,
CHAS. E. BARBER.