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1,641,961

H. BRUNEAU

CAN OPENER

Filed May 15, 1926

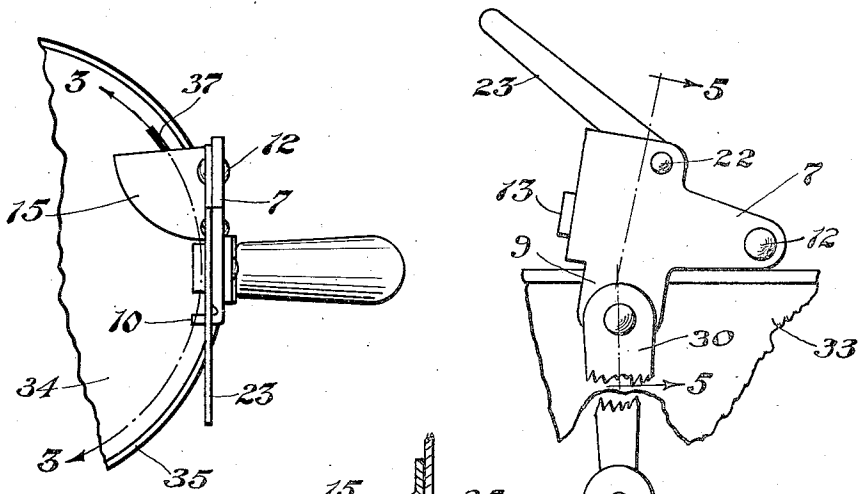


Fig. 1

Fig. 2

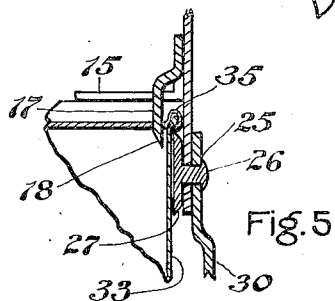


Fig. 5

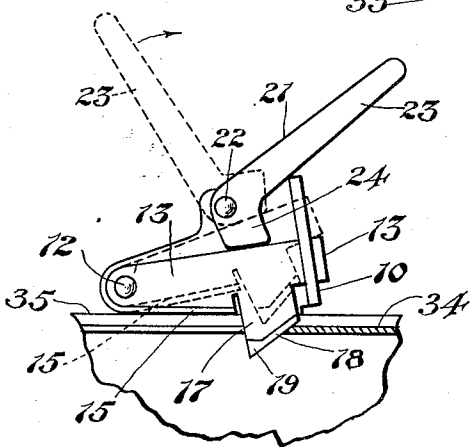


Fig. 3

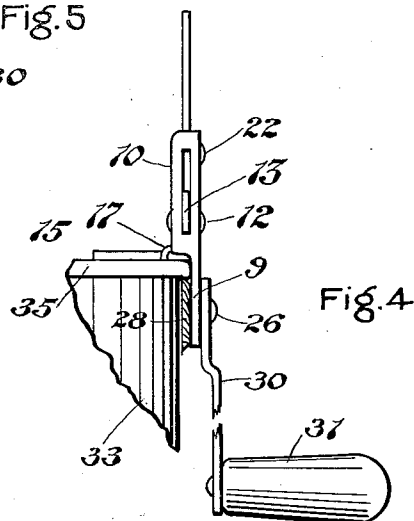


Fig. 4

INVENTOR
Hudger Bruneau.
BY
Noratio E. Bellone
ATTORNEY

UNITED STATES PATENT OFFICE.

HUDGER BRUNEAU, OF WOONSOCKET, RHODE ISLAND.

CAN OPENER.

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My invention relates to can opening devices adapted for the marginal cutting or marginal slitting of can tops.

The essential objects of my invention are adaptability for use upon cans of different dimensions; the insurance of engagement with the can throughout the slitting operation; the propulsion of the device continuously rather than intermittently; and the attainment of these objects in an inexpensive and simply operable device.

To the above ends primarily my invention consists in such parts and in such combinations of parts as fall within the scope of the appended claims.

In the accompanying drawings which form a part of this specification

Figures 1, 2, 3 and 4 are a plan, a front elevation, a rear elevation and an end elevation respectively of my opener attached to a can, the latter being shown fragmentarily, and

Figure 5, a partial section on line 5—5 of Figure 2.

Like reference characters indicate like parts throughout the views.

As shown my opener consists of a carrier plate 7 provided with a depending bottom portion or lug 9, and having upon one end a vertically disposed rearwardly directed lateral guide loop 10. Pivoted at one end to the opposite end of the plate 7 by a pivot pin 12 is a flat arm 13 projecting through the loop 10 and loose in the latter. Upon the bottom of the arm, at its rear end, is a horizontal bearing lip 15, while integral with an intermediate portion of the lower edge is a depending slightly rearwardly offset knife or blade 17 having an inclined beveled cutting edge 18 upon its bottom extremity terminating in a beveled point 19. A cam lever 21 is pivoted upon a pin 22 in plate 7 above the latch comprising an arm 23, and cam head 24, engageable with the top edge of the arm 13, and adapted to depress or release the latter in the loop 10 by swinging the arm 23 in either direction. In a hole 25 in the lug 9 is journaled a stud or shaft 26 fixed to one end of which is a disk 27 provided with peripheral teeth 28. The periphery of the wheel is slightly beveled, and the teeth are diagonally arranged. Fast to the other end of the shaft is a crank arm 30 with a handle 31. The disk is in a vertical plane parallel with the plane of the blade 17, slightly spaced from the latter, and

is overlapped by the same when the arm 13 is at the limit of its downward travel.

In the drawings is shown sufficient of a cylindrical can to illustrate the operation of my opener. 33 is the side, and 34 the top of the can, and 35 is the usual upwardly and laterally projecting bead upon the can periphery. In applying the opener to the can the parts are initially positioned as shown in broken lines in Figure 3. The rear edge of the lip 15 rests upon the bead 35, and the lever arm 23 is then swung in the direction of the arrow thus moving the arm 13 downwardly, and forcing the blade 17 through the can top 35 into the position shown in full lines. The blade is now continuously advanced, and an annular slit 37 produced, by turning the crank and thus rotating the toothed disk 27 whose face slidably engages the can side 33, and whose toothed periphery engages the curved under face of the bead 35, thus impelling the plate 7 and the parts carried thereby around the can. In the described operating position it will be noted that the overlapping position of the blade 17 relatively to the disk 27 serves to lock the device against escape from the can. In fact the device cannot be removed from the can after the completion of the cutting operation until the lever arm is reversed and the arm 13 manually elevated to the position shown in broken lines. Thus injury to the operator during the cutting operation is prevented. The beveled periphery of the disk and the diagonal disposition of the teeth thereof assists in maintaining the opener in snug engagement with the can during the cutting operation, and furthermore assists in adapting the device to use upon cans of different shapes.

I claim:—

1. A can opener comprising a carrier plate, an arm pivotally attached to the plate, a blade on the arm, a cam lever pivotally mounted on the plate for actuating the arm, an advancing disk rotatably supported by the plate parallel with the blade and adapted to be overlapped thereby and means for rotating the disk.

2. A can opener comprising a carrier plate, an arm upon the plate, a bearing lip upon the arm, a blade depending from the arm adjacent the lip, an advancing disk rotatably mounted in the plate cooperating with the blade, and means for rotating the disk.

3. A can opener comprising a carrier plate, an arm upon the plate, a lever upon the plate for depressing the arm, a depending blade upon the arm, an advancing disk rotatably mounted in the plate spaced from the blade and adapted to be overlapped thereby when the arm is depressed, and a crank operatively connected to the disk.
4. A can opener comprising a carrier plate, a lateral loop upon the plate, an arm pivotally attached to the plate and slidable in the loop, a cam lever carried by the plate engageable with the arm, a bearing lip on the arm, a depending offset blade upon the arm, an advancing disk rotatably supported by the plate below the arm adjacent the blade, and means for rotating the disk.
5. A can opener comprising a carrier plate, a horizontally disposed arm carried thereby, a cam lever upon the plate above the arm and engageable with the arm, a horizontal lateral lip upon the lower edge of the arm, a depending blade upon the lower edge of the arm, a shaft in the plate below the arm, a crank upon the outer end of the shaft, and an advancing disk comprising a body upon the inner end of the shaft adjacent the blade and parallel therewith provided with a beveled peripheral portion, and diagonally disposed teeth upon the peripheral portion of the disk.

In testimony whereof I have affixed my signature.

HUDGER BRUNEAU.