Sept. 29, 1931. R. T. CHASE 1,825,383

CAN OPENER

Filed Nov. 20, 1928

Fig. 1.

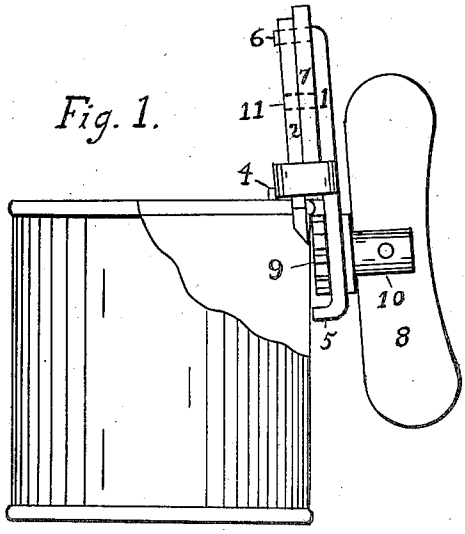


Fig. 2.

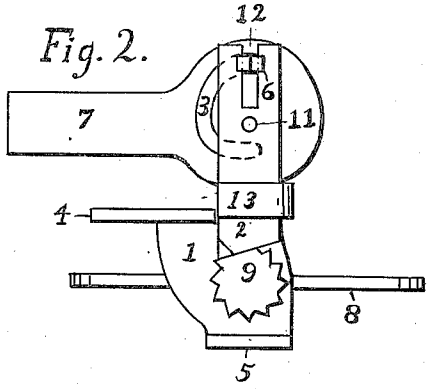
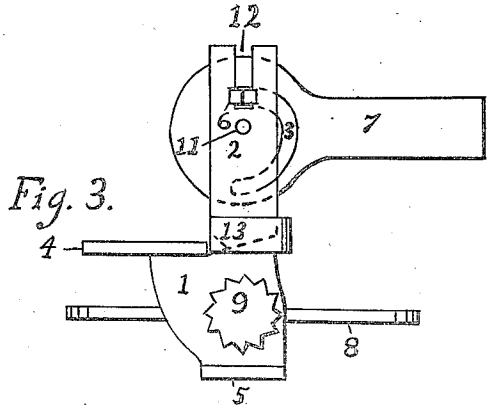


Fig. 3.



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UNITED STATES PATENT OFFICE

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CAN OPENER

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My invention relates to that type of can opener in which the top of the can is cut out by a shear blade, the cutting edge of which is set at an oblique angle to the top of the can, and is held down and pulled along the rim of the can by a device, such as a toothed wheel rolling against the rim of the can.

The object of my invention is to provide a can opener that is more easily operated by a novice than those heretofore on the market, and also is easily adjusted to various depths of can tops. With one turn of the lever the blade may be set to cut the top from a soldered top milk can, or an imported fish can on which the top is about one quarter inch below the top edge of the rim.

I attain these objects by the means illustrated in the accompanying drawings, in which—

Fig. 1 is a front view of the opener, mounted on a can in the cutting position, with a part of the can broken away to allow the shearing blade to be seen.

Fig. 2 is a view of the blade side of the opener with the blade in the closed or operating position.

Fig. 3 is a view of the blade side with the blade in the open position to allow the insertion of the rim of a can between the blade and toothed wheel.

In all the figures, the numeral 1 represents the frame, and 4 and 5 represent portions of the frame bent to form guides which hold the opener in its proper position on the can, and another portion 6 is bent to form a guide for the upper end of the shear blade 2 which has a slot 12 cut in it, and another portion 13 is bent so that together with the end of guide 4 it forms a guide for the lower end of the shear blade 2. The end of guide 6 is split and the two portions bent over to hold the blade in place. The part 13 is so bent as to allow the lower or rear part of the blade to spring out a little when it strikes the side seam of the can and at the same time hold the front part rigid. The lever 7 is pivoted on the pin 11 which extends into the blade 2. 3 is a curved slot in lever 7 through which the guide 6 slides, and is excentric to pin 11. 8 is the key by which toothed wheel 9 is turned on shaft 10. To operate this opener, the lever 7 is placed in the position shown in Fig. 3; the rim of the can inserted between the wheel and blade, and then the lever is pulled over toward the position shown in Fig. 2, thus forcing the point of the blade through the metal of the can. The key 8 is then turned and the toothed wheel 9 draws the opener along the rim of the can thus causing the blade 2 to shear the top from the rim. The lever is then returned to the position of Fig. 3 and the opener removed from the can.

I claim:

1. In a can opener, the combination of a frame having guides thereon, a sliding shear blade having an oblique cutting edge and adapted to slide on certain of said guides; a cam and lever to force the point of said blade through the can top and adjust it to various depths for cutting; and a toothed wheel adapted to engage the lower edge of the rim of a can, and rotated by a key to advance the opener along the rim of the can.

2. In a can opener, the combination of a frame; a sliding shear blade with means for mounting and guiding it bodily and longitudinally on said frame; a cam and lever mounted on said frame and engaging said blade to adjust said blade to the proper depth for cutting and to cause the point of said blade to puncture the can; and a traction wheel and key also mounted on said frame for moving the opener along the rim of the can.

3. In a can opener, the combination of a frame; a sliding shear blade with means for mounting and guiding it bodily and longitudinally on said frame; a traction wheel mounted on said frame; a key for turning the wheel; and a lever and cam operating between said frame and blade to force the point of the blade through the top of the can and adjust it for cutting at various depths.

4. In a can opener, the combination of a frame; a traction wheel mounted thereon; a key for turning the traction wheel; a sliding shear blade with means for mounting and guiding it bodily and longitudinally on said frame; and a cam and lever operating between said frame and blade to force the blade toward the wheel.

5. In a can opener, the combination of a frame; a sliding shear blade with means for mounting and guiding it bodily and longitudinally on said frame; a slotted cam and lever arm operating between said frame and blade to move the blade longitudinally in both directions; and a traction wheel and key also mounted on said frame.

6. In a can opener, the combination of a frame; a traction wheel mounted thereon having teeth directed upwardly to engage the lower edge of the rim of a can; a sliding shear blade substantially parallel to said wheel and adapted to cut the top from the rim of a can, with means for mounting and guiding it bodily and longitudinally on said frame; and a lever operating between the said frame and blade to force the blade toward the wheel.

REYBURN T. CHASE.