

(No Model.)

O. C. THOMPSON.
CAN OPENER.

No. 556,223.

Patented Mar. 10, 1896.

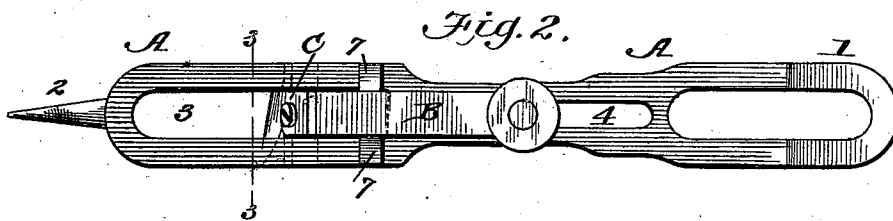
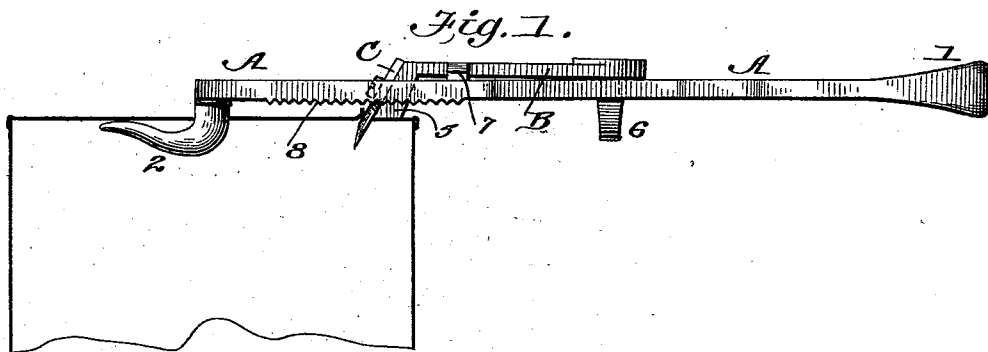
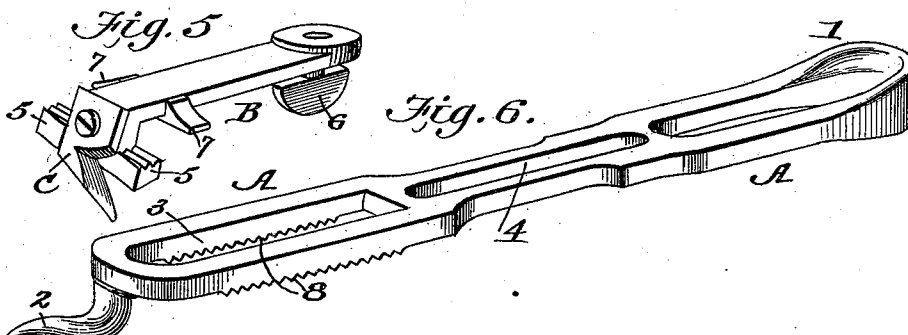
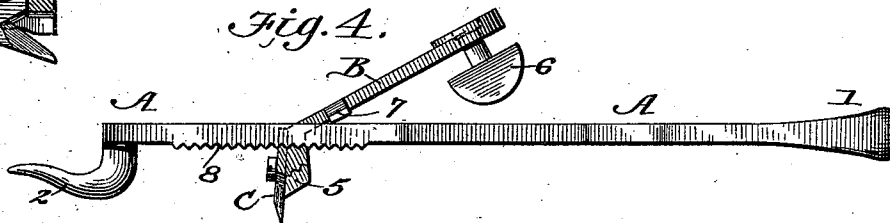
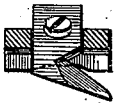


Fig. 3.



WITNESSES:

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OLIVER C. THOMPSON, OF EMPORIA, KANSAS.

CAN-OPENER.

SPECIFICATION forming part of Letters Patent No. 556,223, dated March 10, 1896.

Application filed July 6, 1895. Serial No. 555,104. (No model.)

To all whom it may concern:

Be it known that I, OLIVER C. THOMPSON, of Emporia, in the county of Lyon and State of Kansas, have invented a new and useful Improvement in Can-Openers, of which the following is a specification.

My invention is an improvement in that class of hand can-openers that consist of a bar or lever having a point for piercing the head of a sheet-metal can and provided with a knife or cutter so arranged that when the said lever is turned on the said point it cuts out a circular portion of the can-head.

The invention is embodied in the construction and the manner of its attachment to the lever of an adjustable clamp that carries the knife or cutter, also in the construction and arrangement of the latter relative to the head of the clamp, as hereinafter described and shown in accompanying drawings, in which—

Figure 1 is a side view of my improved can-opener applied to a can for cutting out the head thereof. Fig. 2 is a top plan view of the can-opener. Fig. 3 is a cross-section on line 3 3 of Fig. 2. Fig. 4 is a side view of the instrument, the clamp and knife-holder being shown raised, as required to enable it to be adjusted. Fig. 5 is a perspective view of the clamp and knife-holder detached, and Fig. 6 is a perspective view of the lever separate from the clamp and knife.

The lever A is a flat metal bar having a slotted handle portion 1 and a curved point 2 at the other end for piercing the heads of cans, and serving also as a center around which the lever proper is rotated in the operation of cutting out the can-head. The lever has two aligned longitudinal slots 3 4, that adapt it for attachment to a lever-clamp or clamping device B, to which the cutter C is secured. The said device B (best shown in Fig. 5) consists of a flat bar having a downwardly bent or inclined portion, whose lateral projections 5 give it a T form, a clamping-screw 6 arranged at the other end of the clamp, and an intermediate fulcrum 7. The bent portion of the T-shaped head is inclined at an obtuse angle (about thirty degrees) and forms a seat for the knife C, which is secured thereon by a screw. The head proper has a flat beveled under surface, Figs. 1 and 4, and is provided with serrations or grooves on the upper side

of its projections 5 to adapt it to engage (Fig. 1) like serrations 8 on the under side of the lever A.

The screw 6 of the clamping device B has a flat head, which is narrower in one diameter than the slot 4 in the lever A, so that when adjusted in one position it will readily pass through the said slot.

The fulcrum 7 of the clamping device consists of an enlarged or thickened portion having lateral projections adapted to rest on the lever A on each side of the slot.

In Fig. 4 the device B is shown raised in the position required to enable it to be adjusted along the lever A, which adjustment is necessary to adapt the instrument to cans of different diameters or for cutting circular portions of different diameters. In Figs. 1 and 2 the said device B is shown in normal locked position, the lateral projections 5 of the T-head being held firmly in engagement with the serrations 8 of the lever A by reason of the screw 6 having been screwed up and its head thereby brought into firm contact with the lever A. It will be seen that in this operation the parts 7 serve as a point of leverage. Thus simply by turning and adjusting the screw 6 the clamping device B may be adjusted and locked in position as required.

The knife or cutter C consists of a flat shank, and a notched V-shaped blade that projects laterally is also beveled on its outer side, as shown, so as to form a sharp cutting-edge and also to adapt it to turn up the edge of the cut-out portion of a can-head, as shown in Fig. 1.

In using the instrument, the point 2 having been inserted in a can-head, as shown in Fig. 1, the free or handle portion 1 is pressed down, thus causing the point of the cutter C to pierce the can-head, and the lever A being then turned on its pivot from right to left, the knife C sweeps in a circle and cuts out a circular portion of the can-head. In this operation the metal is forced into the lateral notch of the knife C between the inclined edge of the latter and the angular edge of the T-head of the clamp or knife-holder B, whereby the metal is severed by a draw cut.

It will be further noted that in consequence of the inclination of the knife C toward the piercing-point 2 and the bevel of its cutting-edge the edge of the severed portion of the

can-head is turned up, as shown in Fig. 1, while the other or outer edge is held down flat. This turning up of the inner edge enables it to be easily engaged by a finger or
5 tool for raising the partly-severed portion of the can-head.

From the foregoing it will appear that my invention is distinguished by the peculiar construction and attachment of the clamp or
10 knife-holder, which enables it to be adjusted as described; also by the construction whereby the metal is severed by a clear draw or shear cut, which enables the lever to be operated with great ease, and whereby the severed
15 portion is turned up, as stated.

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

1. In a can-opener, the combination, with
20 the lever, having a piercing-point and slotted as specified, of a knife or cutter, a knife-holding clamp, having a fulcrum on the upper side of the lever, and a T-head adapted to engage the under side of the lever, a screw, applied
25 to the other end of the clamp, and having a

head which is narrower in one diameter than the slot in the lever, as shown and described.

2. In a can-opener, the combination, with the lever, having lengthwise slot or slots, a
piercing-point, and serrations on its under
30 side, of the adjustable knife-holding clamp, composed of a bar, having at one end a clamping-screw which is constructed as specified, to adapt it to pass through the slot and also
engage the lever, and at the other end a down-
35 wardly-bent T-head whose lateral projections are grooved to engage the like serrations of the lever, and a fulcrum arranged near the middle of said bar on the upper side of the
lever, and the knife secured in a forwardly-
40 inclined position, on the inclined head of the lever, and having a downwardly and laterally projecting point which is beveled on the inner side, as shown and described.

In testimony of all which I have hereunto
45 subscribed my name.

OLIVER C. THOMPSON.

Witnesses:

J. T. BURTON,
GEORGE S. SIMONS.