S. T. E. FLOWER.

CAN PERFORATOR AND SEALER.

APPLICATION FILED FEB. 2, 1912. RENEWED JULY 28, 1913.

1,118,645. Patented Nov. 24, 1914.

Fig. 1.

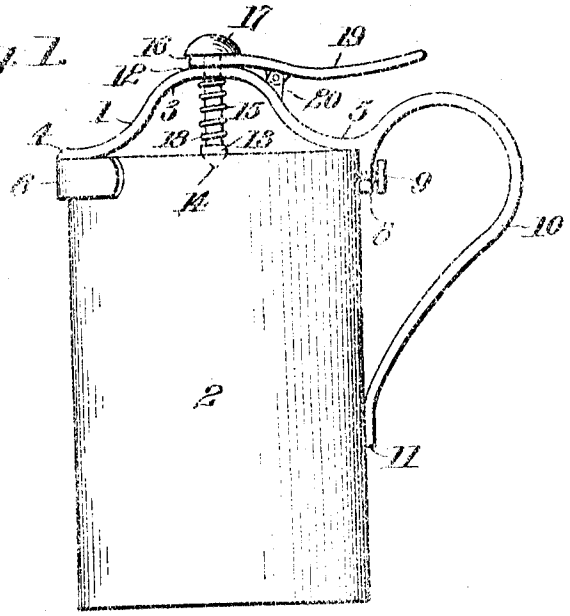


Fig. 2.

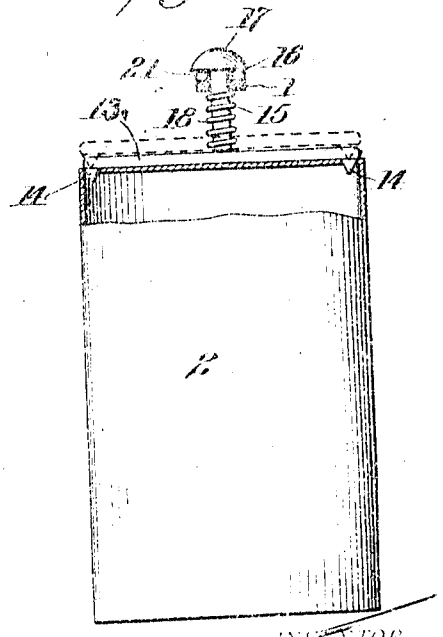
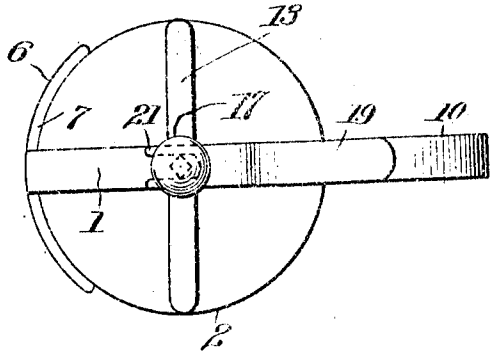


Fig. 3.



WITNESSES

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CAN PERFORATOR AND SEALER.

1,118,645. Specification of Letters Patent. Patented Nov. 24, 1914.

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To all whom it may concern:

Be it known that I, STANLEY T. E. FLOWER, a citizen of Canada, residing at Stewart, British Columbia, Canada, have invented certain new and useful Improvements in Can Perforators and Sealers, of which the following is a specification.

My invention relates to new and useful improvements in a combined can perforator and sealer.

The objects of my invention are to provide a can perforator and sealer, which is simple, economical and efficient, and of universal application to cans wherein is kept liquids, such as milk and the like, for domestic consumption and used directly out of the cans. And further objects are to provide a can perforator and sealer and handle combined, which will by hand manipulation punch openings in the top of a can and the puncturing points remain in the openings, closing them to air and dirt, and when desired the points may be raised permitting the flow of liquid from the can, thus providing a convenient and sani ıry vessel for general household purposes. I accomplish these objects by means of the device illustrated in the accompanying drawings, in which,

Figure 1 is a side view of the device, showing its attachment to a can. Fig. 2 is a sectional end view and a broken away portion of a can, showing the spurs penetrating a can top. Fig. 3 is a view looking down upon the device.

Similar figures refer to similar parts throughout the several views.

Referring specifically to the drawings, 1, is the body portion, composed of a metallic strip and of suitable dimensions to extend over an ordinary small can, as at 2. The metallic strip 1 is formed with a compound curve, with an enlarged middle bend forming a bridge, 3, and one end, 4, and a point, 5, on a plane with the end 4. The end 4 extends downwardly sufficiently to be brazed to a transverse resilient circular strip of suitable size to clasp the circumference of the end of a can, as 7, which is provided to assist in retaining the device on the can in connection with the point 5, as hereinafter detailed. At the opposite from end 4 on the body of the metallic strip 1, is formed a rectangularly projecting tongue, 8, in which is provided a thumb screw opening, 9, which thumb screw is adapted to hold the device on the can in coöperation with the strip 6. The strip 1 extends sufficiently to form a curved handle, 10, the end of which rests on the can, as at 11, thus acting as a brace and giving strength to the handle in the use of the device on the cans. At the apex of the enlarged central curve or bridge in the metallic strip 1, is provided an opening 12, through which the post may pass in the assembling of the parts of the device, as hereinafter described.

A cross bar, 13, extends transversely to the body portion 1, on each end of which is provided a downwardly projecting spur, 14, adapted to puncture a can top in the operation of the device. The cross bar 13 is provided of suitable length to equal the diameter of the can to be used, thus bringing the spurs 14, inside the rim of the same, in such manner that they will strike the thin metal top, in the operation of the device.

Centrally and at right angles on the cross bar 13, is provided a rectangularly formed post, 15, of suitable dimensions, the upper end terminating in a square shouldered head, 16 and an oval top 17. This post is adapted to pass through the opening 12 in the body portion 1 in assembling the parts for use. A spiral spring, 18, is provided to surround the post 15, for the purpose of forcing the cross bar 13 and the spurs 14 downward, retaining the latter in the punctures formed in the can by means of the pressure of the spurs, thereby closing and sealing these punctures and preventing the dirt or dust from entering, and the contents of the can from spilling, should the same be upset. A lever, 19 resting on a convenient fulcrum 20 on the upper portion of body portion 1, is provided to withdraw the spurs 14 from the punctures when desired This lever is provided with a slot, 21, in one end, adapted to adjustment on the post, 15, for the purpose of raising the same, and the spiral spring 18 forcing it back into position so that the spurs will again enter the openings in the can.

The operation is obviously as follows: After the device is adjusted on the can, a push or light stroke on the oval 17 of the head 16 of post 15 will force the spurs 14 through the top of the can, where they will remain closing the punctures thus made, and when it is desired to use the contents of the can, a pressure on the lever 18 will raise the post and the cross bar 13, causing the spurs

14 to leave the punctures, leaving the punctures clear, and by tipping the can by handle 10, one puncture will discharge the contents, while the other permits the air to enter, giving sufficient ventilation to permit the contents to pass out without difficulty. Upon releasing the lever the spring 18 will force the cross bar 13 downward, causing the spurs to again enter the punctures closing them as before. This operation can be repeated until the contents of the can is used, when the device may be removed and placed on another, thus it may be used indefinitely.

Having described my invention, what I claim is:—

1. A device of the character described, consisting of a metallic strip formed into a compound curve with an enlarged central bend having an opening therein, one end of said metallic strip having a transverse circular strip brazed thereto, the other end having a rectangularly formed tongue thereon with an opening therein, and extending into a curved handle; a cross bar having spurs at each end thereof; a rectangular post formed on said cross bar and adapted to the opening in the enlarged central bend of the metallic strip, substantially as set forth.

2. A device of the character described, consisting of a metallic strip formed into a compound curve with an enlarged central bend having an opening therein, one end of said metallic strip having a transverse circular strip brazed thereto, the other end having a rectangularly formed tongue thereon with an opening therein, and extending into a handle; a cross bar having a spur at each end thereof, and a rectangular post formed thereon, said post adapted to the opening in the enlarged central bend of the metallic strip; a spiral spring surrounding said post, and a lever fulcrumed on the metallic strip and adapted to raise the said post and cross bar from its normal position.

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

STANLEY THOMAS EDWARD FLOWER.

Witnesses:
W. VEITCH,
A. D. DELGLEISH.