W. H. McCRYSTLE.

COMBINED SPOUT AND CAN OPENER.

APPLICATION FILED JUNE 4, 1914.

1,145,778. Patented July 6, 1915.

Fig. 1.

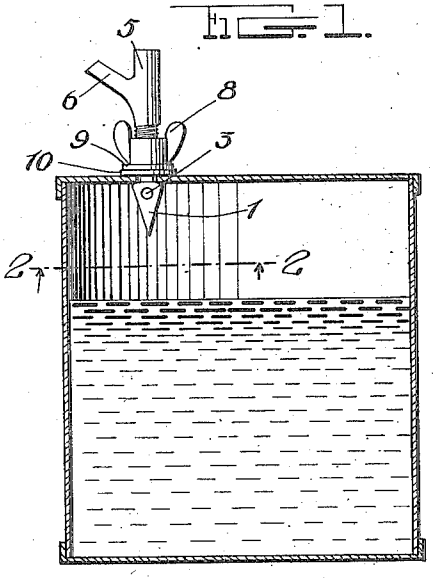


Fig. 2.

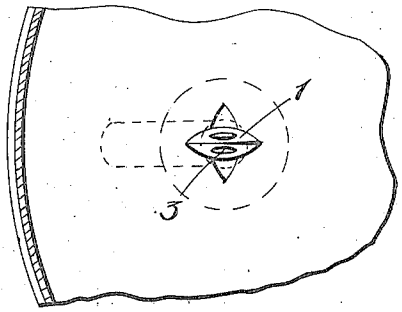


Fig. 3.

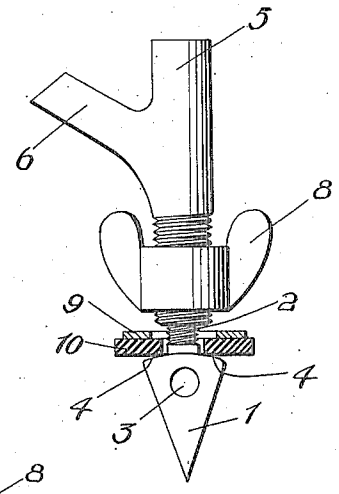


Fig. 4.

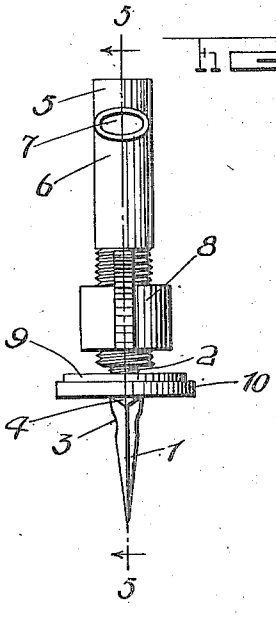


Fig. 5.

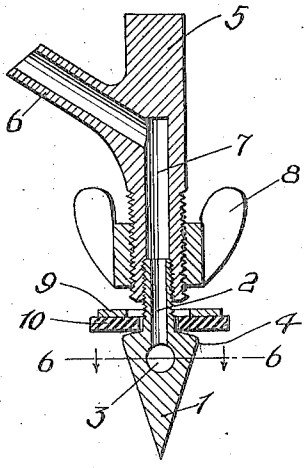
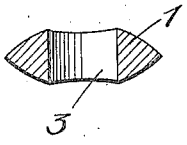


Fig. 6.



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Witnesses

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UNITED STATES PATENT OFFICE.

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COMBINED SPOUT AND CAN-OPENER.

1,145,778. Specification of Letters Patent. Patented July 6, 1915.

Application filed June 4, 1914. Serial No. 843,027.

To all whom it may concern:

Be it known that I, WILLIAM H. McCRYSTLE, a citizen of the United States, residing at Vallejo, in the county of Solano and State of California, have invented certain new and useful Improvements in Combined Spout and Can-Openers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in combined can openers and spouts.

The objects of the invention is to provide a simple and efficient device of this character which may be quickly applied and removed and which may be used over and over again indefinitely.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings: Figure 1 represents a vertical section of a can with this improved device applied and shown in side elevation; Fig. 2 is a detail bottom view of the slotted can top with this improved spout in operative position therein; Fig. 3 is an enlarged side elevation of this improved spout applied and ready to be removed; Fig. 4 is an end elevation thereof; Fig. 5 is a vertical section taken on line 5—5 of Fig. 4; Fig. 6 is a transverse section taken on line 6—6 of Fig. 5.

In the embodiment illustrated, an arrow shaped piercing blade 1 is shown, the head of which has sharpened edges and constitutes the cutting member. This head is hollow at its base and communicates with an exteriorly threaded hollow shank 2 which extends therefrom. The hollow portion of said head is intersected by an aperture or bore 3 which extends transversely through said blade for a purpose to be described.

A substantially Y-shaped spout has one solid arm 5 and the other arm 6 and its shank 7 made hollow to provide an exit for the contents of the can to which the device is applied. The solid arm 5 is in vertical alinement with the shank 7 for a purpose to be hereinafter more fully described. This shank 7 is threaded both interiorly and exteriorly, the threaded bore of said shank being designed to receive the threaded shank 2 of the piercing member and which permits the insertion and removal of said member, so that should said blade be broken or otherwise injured, it may be removed and another substituted. The base of this blade is extended laterally on opposite sides of the shank 2 to form locking shoulders 4 which are adapted to engage the lower face of the can top when applied as will be hereinafter more fully described.

A wing nut 8 is adjustably mounted on the threaded shank 7 of the spout portion and between said nut and the shoulders 4 of the blade are disposed a metal washer 9 and a packing ring 10 to adapt the device to be secured to the can in fluid tight relation to prevent leakage at the point where the blade penetrates the can.

In the use of this device, the piercing member 1 is first driven into the can through the top or side whichever it is desired to open, the nut having first been raised to its extreme outward limit. This operation is accomplished by a driving tool striking the solid arm 5 of the Y-shaped spout. This arm is in alinement with its shank 7 and the piercing member 1, and ample driving surface, and a direct drive is obtained whereby there will be no undue strain or consequent injury to any of the parts of the device during the insertion of the same in a can. When the opener is in this position it is then given a quarter turn which causes the shoulders 4 thereof to pass under and engage the lower face of the body of the can through which the blade has been inserted. The nut 8 is then screwed downwardly which reliably clamps the wall between the packing ring 10 and the shoulders 4 and the device is then ready for use, the contents thereof passing out when the can is turned down through the bore 3 and the hollow shank 2 of the blade and out through the hollow shank 7 of the spout and the arm 6. When it is desired to remove this device from the can to which it has been applied, the wing nut is screwed outwardly to release the washer 10 and the blade is given a quarter turn backward to position it so that it will pass out through the opening made when inserted. It is obvious that by making this blade in the form of an arrow head, that a slot-like opening will be

formed in the wall through which it is projected and when a quarter turn is given thereto, it cannot be withdrawn as it will extend transversely across the slot like opening made.

I claim as my invention:

A combined spout and can opener comprising a hollow arrow-shaped piercing member having a hollow shank extending therefrom with shoulders at the inner end thereof, the head of said member having a bore extending transversely therethrough, a substantially Y-shaped spout member having a hollow shank and solid and hollow arms, said shank and hollow arm communicating, and the shank of said piercing member being adapted to engage said spout shank, a clamping plate on the piercing member shank, and an adjustable coöperating clamping member on the spout shank, and the said spout shank and solid arm being in vertical alinement, whereby an ample driving surface is presented and a direct drive to the piercing member is obtained when it is desired to drive the device into a can.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM HENRY McCRYSTLE.

Witnesses:
JOSEPH CLAVO,
PETER M. KOPP.