No. 881,550. PATENTED MAR. 10, 1908.

G. W. COLE.

DETACHABLE AND REVERSIBLE SPOUT OR NOZZLE FOR DISPENSING CANS.

APPLICATION FILED MAY 4, 1907.

Fig. 1.

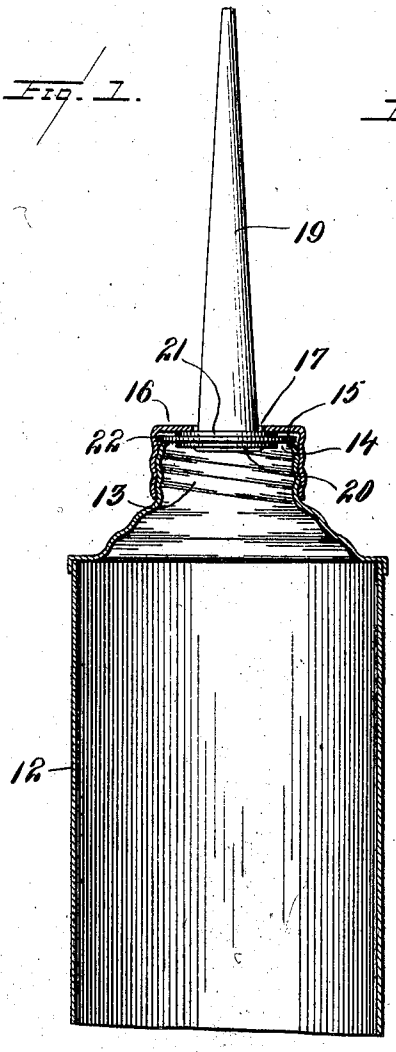


Fig. 2.

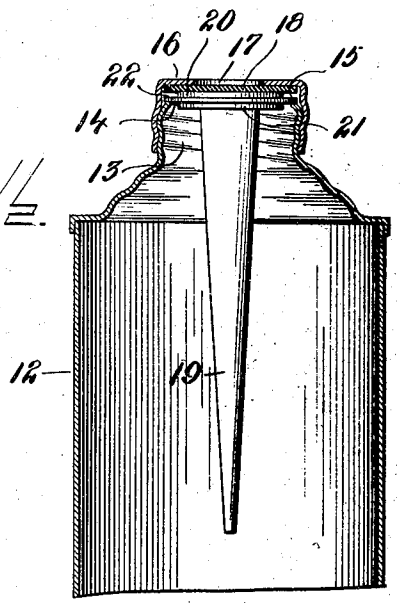
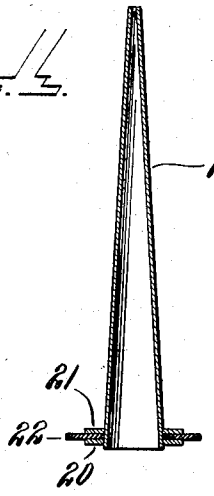


Fig. 3.



WITNESSES:

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DETACHABLE AND REVERSIBLE SPOUT OR NOZZLE FOR DISPENSING-CANS.

No. 881,550. Specification of Letters Patent. Patented March 10, 1908.

Application filed May 4, 1907. Serial No. 371,877.

To all whom it may concern:

Be it known that I, GEORGE W. COLE, a citizen of the United States, residing at 339 Lafayette avenue, Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Detachable and Reversible Spouts or Nozzles for Dispensing-Cans, of which the following is a specification.

The present invention relates to detachable and reversible spouts or nozzles for dispensing cans, and the objects thereof are to provide a spout or nozzle of this character which is simple in construction and easy to manipulate, and which is adapted to make a tighter and more reliable joint with the can to which it is applied than any spout or nozzle of the character referred to which has been heretofore known or used.

To these ends my invention consists in certain constructions and combinations of parts hereinafter described and particularly pointed out in the claims.

In the accompanying drawings I have illustrated my invention as applied to a hand oiler, but it will be obvious that its utility is not limited to its use in this connection, but that it might be applied to many other forms of dispensing cans and similar articles.

In the said drawings:—Figure 1 is a longitudinal section of a portion of a can with my improved spout or nozzle applied thereto and in operative position thereon; Fig. 2 is a similar view with the spout or nozzle in reversed or inoperative position; and Fig. 3 is a longitudinal section of the spout or nozzle.

The can body 12 is preferably provided with a projecting portion 13, provided with an opening 14, surrounded by a suitable seat 15. The spout or nozzle is held in position on the seat 15 by a cap 16, preferably screw threaded to engage said projecting portion 13, and provided with an opening 17, which, when the spout or nozzle is in inoperative position, as shown in Fig. 2, is closed by a suitable packing disk 18. The spout or nozzle comprises a sheet metal, tubular portion 19, preferably slightly tapered or of conical form at its base, and provided with suitable means for making a tight joint with the seat 15, said means comprising two perforated metal disks 20 and 21 between which is located a packing washer 22. The openings in the disk 20 and 21 are preferably made different in diameter, the opening in disk 20 preferably being larger than the opening in disk 21, in order that both disks may fit closely to the tapered tubular portion of the spout. This spout or nozzle is preferably constructed as follows. The disk 20 is first placed upon the tubular portion 19 from the smaller end thereof, followed by the washer 22, and finally by the disk 21. The disks and washer are then driven down toward the base of the portion 19, preferably by a suitable press, making tight joints between the disks, washer, and tubular portion. The disks 20 and 21 are then securely soldered to the portion 19, preferably by dip-soldering the whole device.

The above construction is adapted to make an extremely tight joint with the seat 15. The washer 22 is of greater diameter than the opening 14 and the disks 20 and 21, while said disks 20 and 21 are of less diameter than said opening 14. From this construction it will be noted that the washer 22, and not the metallic disks, rests upon the seat 15, being securely clamped thereon by means of the cap 16, and tightly sealing the opening 14, in whichever position the spout or nozzle is placed.

While I, in order that my invention may be more easily understood, have described the same as embodied in a particular construction, I wish it to be distinctly understood that I do not limit myself to the precise construction shown, it being obvious that many changes might be made therein without departing from the spirit and scope of my invention.

Having described my invention and set forth its merits, what I claim is:—

1. A spout or nozzle comprising a tubular portion, a pair of disks wedged on said tubular portion, and a washer located between said disks.

2. A spout or nozzle comprising a tapered tubular portion, a pair of disks mounted on said tubular portion, the opening in one disk being smaller than the opening in the other, and a washer located between said disks.

3. A spout or nozzle comprising a tubular portion, a pair of disks mounted on said tubular portion, and a washer located between said disks, said washer being of greater diameter than said disks and having the portion outside of the disks extending substantially parallel therewith.

4. A spout or nozzle comprising a tapered tubular portion having a disk mounted thereon, and a washer of greater diameter

than said disk also mounted on said tubular portion adjacent said disk, the portion of the washer outside of the disk extending substantially parallel therewith.

5. In a device of the character described, the combination with a can provided with an opening and a seat surrounding said opening, of a spout or nozzle provided with a disk of less diameter than said opening and with a washer adapted to coöperate with said seat.

6. In a device of the character described, the combination with a can provided with an opening and a seat surrounding said opening, of a spout or nozzle provided with a disk of less diameter than said opening and with a washer adapted to coöperate with said seat, and a screw cap for securely clamping said washer to said seat.

7. In a device of the character described, the combination with a can provided with an opening and a seat surrounding said opening, of a spout or nozzle comprising a tubular portion, a pair of disks of less diameter than said opening and mounted on said tubular portion, and a washer located between said disks, said washer being of greater diameter than said opening, and means for securely clamping said washer to said seat.

GEORGE W. COLE.

Witnesses:
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