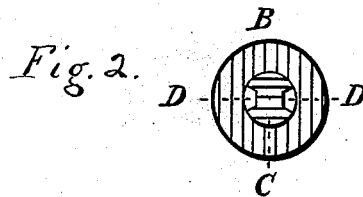
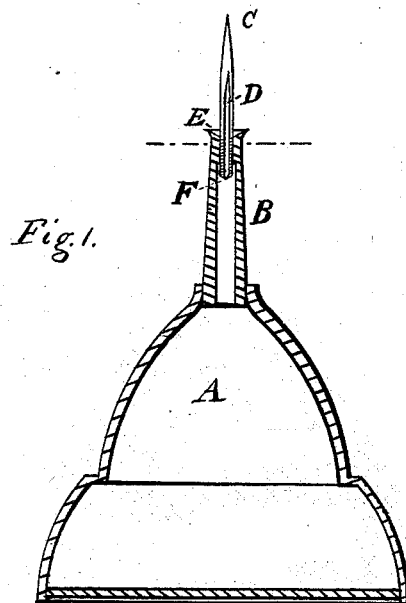


I. LEONARD.
Oil-Can Nozzle.

No. 219,103

Patented Sept. 2, 1879.



Witnesses:
Nathaniel Hill
Erving S. Porter.

Inventor:
Ira Leonard,
By Albert M. Moore,
His Attorney.

UNITED STATES PATENT OFFICE.

IRA LEONARD, OF LOWELL, MASSACHUSETTS.

IMPROVEMENT IN OIL-CAN NOZZLES.

Specification forming part of Letters Patent No. **219,103**, dated September 2, 1879; application filed May 10, 1879.

To all whom it may concern:

Be it known that I, IRA LEONARD, of Lowell, in the county of Middlesex and Commonwealth of Massachusetts, have invented new and useful Improvements in Oil-Can Nozzles, of which the following is a specification.

My invention consists in inserting a tapering pin provided with longitudinal lateral grooves in the outer end of the nozzle of a can intended for applying oil to machinery, and also in flaring the outer end of said nozzle, for the purposes herein described.

In the accompanying drawings, Figure 1 represents a can to which my invention is attached, the can and nozzle being in vertical cross-section; and Fig. 2 represents an enlarged horizontal cross-section of the nozzle and pin, taken on the dotted line in Fig. 1.

A is a can constructed in the usual manner. To the can is screwed, or by other well-known means attached, the vertical nozzle B, which should be thick enough to avoid denting, and is better if made of cast metal, so that the outer end cannot so well be enlarged by operatives. The upper end of said nozzle is flared to form a cup at E, which receives the surplus oil that runs down the pin C after oiling. The pin C is tapered at the top to a point, so that the oil may be readily delivered from its upper end, and has one or more grooves, D, running from its lower end to a point above the top of the nozzle, the grooves disappearing on the tapering part of the pin. The pin

C is provided with a screw-thread on its lower end, which is, therefore, in appearance like a tap used to cut female screws, and which lower end enters a screw-thread cut on the inside of the top of the nozzle B. The pin should be screwed into the nozzle so firmly that it cannot be removed without tools. Below the pin C the nozzle B has an enlarged internal diameter, F, so that the oil may readily reach the top of the nozzle.

The can and nozzle above described are used like other cans, the oil running in the grooves D between the pin and the top of nozzle and following the pin to its point.

The advantages of my invention are that operatives cannot readily enlarge the delivery-orifice, (by thrusting into it a wire, nail, or the tang of a file, for instance,) and thereby waste the oil, that the nozzle is kept clean on its outer surface, and that the pin with tapering point gives a perfect direction to the oil.

I claim as my invention—

1. The combination of the nozzle B and the pin C, tapered and provided with the groove D, as and for the purpose described.
2. The combination of the nozzle B, provided with the cup E, and the pin C, tapered and provided with the groove D, as and for the purpose described.

IRA LEONARD.

Witnesses:

ALBERT M. MOORE,
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