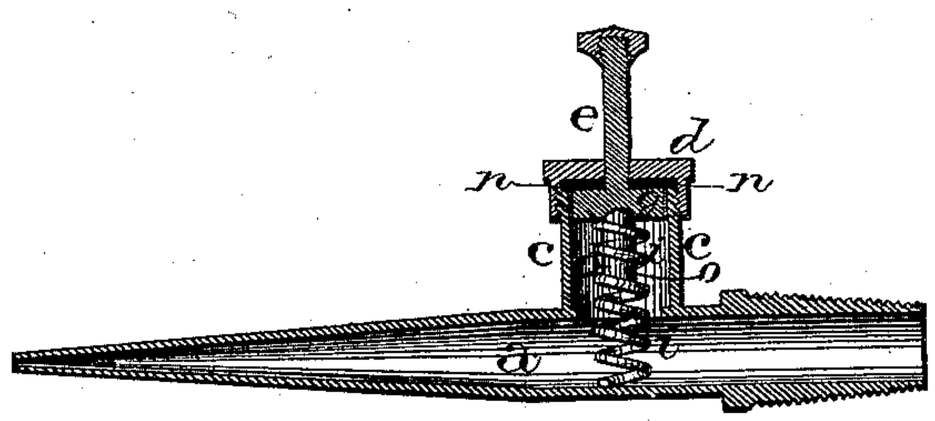
R. H. HASENRITTER.

OIL-CAN NOZZLES.

No. 174,131. Patented Feb. 29, 1876.



WITNESSES:

J. Wm. Garner.

F. M. Burnham.

INVENTOR.

R. H. Hasenritter

per

F. A. Lehmann, Atty

UNITED STATES PATENT OFFICE

ROBERT H. HASENRITTER, OF HERMANN, MISSOURI.

IMPROVEMENT IN OIL-CAN NOZZLES.

Specification forming part of Letters Patent No. **174,131**, dated February 29, 1876; application filed January 22, 1876.

To all whom it may concern:

Be it known that I, R. H. HASENRITTER, of Hermann, in the county of Gasconade and State of Missouri, have invented certain new and useful Improvements in Nozzles for Oil-Cans; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in nozzles for oil-cans; and it consists in attaching to the nozzle a piston or plunger, for the purpose of forcing out the oil, either in drops or in a stream or jet, as will be more fully described hereinafter.

The accompanying drawing represents my invention.

a represents an ordinary nozzle, which has a screw-thread formed upon its largest end, for attachment to the can. At any suitable place upon this nozzle is formed the cylinder *c*, which opens into the tube at one end, and has its outer end closed by a screw-cap *d*. Passing through this cap is the operating-rod *e*, upon which is placed the piston or plunger *g*, which moves air-tight in the cylinder. Underneath this piston is placed the coiled spring *i*, which is kept in its position by an extension, *o*, of the rod *e*, and which spring keeps the piston pressed outward against the cap *d*. Inside of the cap *d* is placed a suitable packing, *n*, which prevents any leakage from the end of the cylinder.

The can having been turned so that the oil will run into the nozzle, by pressing slowly down upon the rod *e* the oil may be made to drop or run slowly out, while, by pressing the plunger suddenly inward, the oil may be forced outward in a jet or stream.

By means of this invention the spring bottoms of cans, which are always getting out of order and are so difficult to repair, are entirely done away with, while almost any sort of a vessel to which this nozzle can be applied can be converted into an oil-can. The only part upon which there comes any wear is the packing of the piston, and this can be renewed at any time.

By making the screw-thread on the end of the nozzle tapering, the nozzle can be applied to vessels having different-sized mouths, and thus, the nozzle being complete in itself, it can be manufactured for the market independently of the vessel to which it may be attached.

Having thus described my invention, I claim—

1. In combination with the nozzle *a*, an attachment thereto and forming part thereof whereby the oil can be forced outward, as described.

2. In combination with the nozzle *a*, a cylinder and piston working therein, substantially as shown.

3. The combination of the nozzle *a*, cylinder, piston, spring, and cap, as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of January, 1876.

ROBERT H. HASENRITTER.

Witnesses:

RUDOLPH HIRZEL,

G. A. MERTENS.