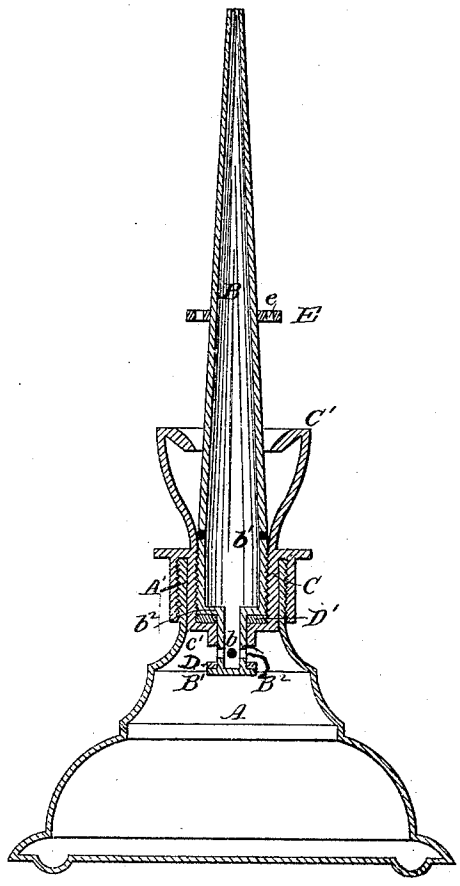
S. S. NEWTON.
Oiler Nozzle.

No. 233,005. Patented Oct. 5, 1880.



Witnesses:
N. N. Low
J. S. Barker.

Inventor:
Stephen S. Newton
by H. H. Doubleday
atty

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

STEPHEN S. NEWTON, OF BINGHAMTON, NEW YORK.

OILER-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 233,005, dated October 5, 1880.

Application filed August 15, 1879.

To all whom it may concern:

Be it known that I, STEPHEN S. NEWTON, of Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Oiler-Nozzles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to the construction of an oiler-nozzle having at its lower end a reduced tubular extension or neck, which is closed at its lower extremity by a cap, in combination with a supporting thimble or socket, the construction and arrangement of parts being such that whether the opening through which oil passes from the can into the nozzle be opened or closed there is a tight joint formed betwen the nozzle and its supporting-socket in such manner as to prevent the escape of oil from the can around the outside of the nozzle, as will be hereinafter fully explained.

In the drawing, which is a vertical section of an oil-can having my invention applied thereto, A represents the body of the can. B is the nozzle, tapering in form, and provided at its lower end with a reduced tubular extension or neck, B^2, the lower end of which is closed by a plate or cap, B'. The neck B^2 is provided with one or more ports, b, through which oil passes from the can to the interior of the nozzle.

C is a supporting thimble or socket, secured to the neck of the can in any desired manner, although I prefer the construction shown, in which the socket is provided with a depending flange which is screw-threaded internally and engages with a corresponding external thread on the neck A' of the can. The lower part of the socket C is closed, except that it is provided with a central seat, c', within which fits and slides the tubular extension B^2 of the nozzle, the lower end of this part of the nozzle being screw-threaded externally to engage with an internal thread of the socket C, so that by turning the nozzle in one direction or the other it rises or falls within the socket.

In the position shown in the drawing, the tubular extension B^2 is projected so far into the can that oil can readily pass through the ports b, and in this position the space between the shoulder b^2 and the bottom of the socket is packed by a washer, D', so that no oil can pass from the can around the lower end of the nozzle, and thence out between the screw-threads of the nozzle and the socket.

Under some circumstances the packing-washer D' may be dispensed with, and the shoulder b^2 made to fit so closely the bottom of the socket C as to prevent leakage of oil at that point, which would be likely to occur were it not for the shoulder and the packing-washer D, owing to the fact that when cheaply made the engaging-threads are very apt to be imperfect.

By preference I employ a drip-cup, C', in combination with the socket C, to collect such oil as passes down the outside of the nozzle and conduct it to the drip-ports b', which, as will be readily understood, are opened when the nozzle is screwed upward, so as to withdraw the ports b within the socket, and thus prevent oil from passing from the can into the nozzle, and when the ports are thus closed the washer D packs the space between the projecting flange of the cap B' and the adjacent portion of the socket C, and effectually prevents leakage at that point.

What I claim is—

In an oiler-nozzle, the combination, with a screw-threaded supporting-socket, C, having an opening in the bottom, of the tip B, provided with the tubular extension B^2, having ports b therein, and the flange B', either with or without the washers D D', substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

STEPHEN S. NEWTON.

Witnesses:

H. H. DOUBLEDAY,

G. B. NEWTON, Jr.