

(No Model.)

E. J. DELANEY.

SPRAY NOZZLE.

No. 334,110.

Patented Jan. 12, 1886.

FIG. 1.

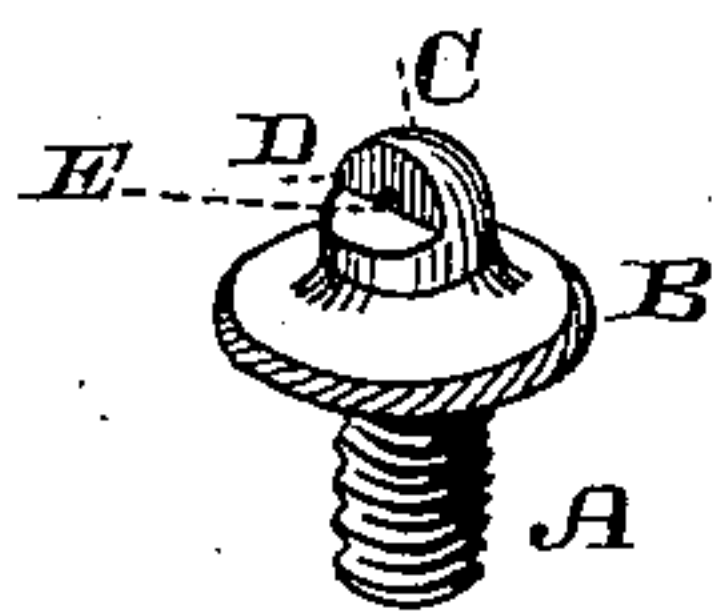
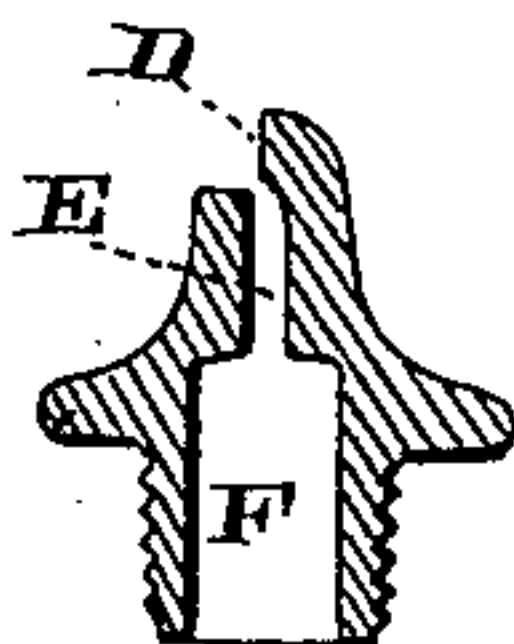


FIG. 2.



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UNITED STATES PATENT OFFICE,

EDWARD J. DELANEY, OF SAN JOSÉ, CALIFORNIA.

SPRAY-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 334,110, dated January 12, 1886.

Application filed April 9, 1885. Serial No. 161,740. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. DELANEY, of San José, county of Santa Clara and State of California, have invented an Improvement in Spray-Nozzles; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a spray-nozzle which is especially useful for the application of washes to plants, trees, or vines which may be infested with vermin.

It consists of a tip having a discharge opening or hole made through it, one side of the tip being cut away to a line central with the opening and intersecting its end.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a perspective view of the device. Fig. 2 is a section.

A is a screw-threaded shank, which is intended to fit over or into the pipe which brings the liquid to the nozzle, and B is a milled head, of considerable diameter, by which the nozzle can be turned to put it on or take it off. The upper end of the nozzle C forms in the present case a rounded head, which has a notch filed or cut into one side, as shown at D, one side of the notch being vertical and the other horizontal, the angle of meeting being at the upper end of the hole E, which is bored into the nozzle from the lower end. This hole E opens at the lower end into a larger opening, F, which in turn connects through the bottom of the nozzle with the pipe G, through which the liquid is brought to the nozzle.

In boring the small hole E the end of the tool makes a rounded concavity at the bottom of the hole, and when the notch D has been filed so as to cut half-way into this hole it leaves an opening through which the liquid may be discharged, and the semi-concavity

of the bottom which remains intact causes the liquid to be thrown out in an extremely fine spray.

This nozzle is especially applicable to throwing mixtures of oil, kerosene, or whale-oil soap, and similar washes which are employed for destroying vermin upon plants where it is necessary that the liquid should be thrown in the finest possible spray.

I am aware it is not new to construct a spray-nozzle having slots, one made transversely across one side and the other vertically connecting the slot with the top. I am also aware a spraying device has been used in which openings are made extending out sidewise in each direction from a central opening, and a loose cap over the hole, and these features I therefore do not claim, as in my device the nozzle is made semi-globular, a hole is bored axially in the nozzle to a point near the outer end, but not passing entirely through. One side of this semi-globular nozzle is then filed or otherwise cut away so as to form a right-angled notch, the angle of which intersects the end of the hole which was bored in the nozzle from below.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is--

A spray-nozzle having a hole extending axially into its head and an angular notch having a vertical and horizontal wall formed by cutting away a portion of the head, so that said notch intersects the end of the hole, substantially as herein described.

In witness whereof I have hereunto set my hand.

EDWARD J. DELANEY.

Witnesses:

H. C. LEE,

S. H. NOURSE.