

H. D. BINKS.
 SPRAYING NOZZLE.
 APPLICATION FILED OCT. 16, 1909.

960,150.

Patented May 31, 1910.

Fig. 1.

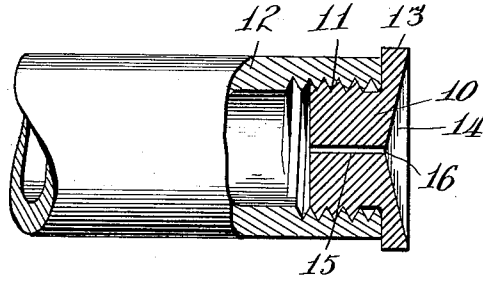


Fig. 2.

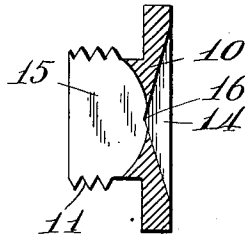
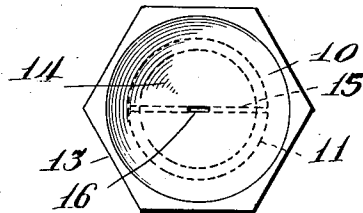


Fig. 3.



Witnesses
 Milton Lenoir
 E. M. Klatchers

Inventor
 Harry D. Binks.
 By *Gilson Gilson*
 Attorneys.

UNITED STATES PATENT OFFICE.

HARRY D. BINKS, OF CHICAGO, ILLINOIS.

SPRAYING-NOZZLE.

960,150.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed October 16, 1909. Serial No. 522,960.

To all whom it may concern:

Be it known that I, HARRY D. BINKS, a citizen of the United States, and resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Spraying-Nozzles, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

10 The invention relates to a nozzle for use in spraying liquids, such as oils, white wash, insecticide, etc., and its object is to provide a nozzle which will deliver a fan-shaped spray.

15 It consists in a device such as is hereinafter described, and is illustrated in the accompanying drawings, in which—

20 Figure 1 is a longitudinal view of the end of the pipe with the nozzle applied thereto, partly in section; Fig. 2 is a longitudinal section of the nozzle in a plane perpendicular to the plane of the sectional portion of Fig. 1; and Fig. 3 is an end view of the nozzle.

25 The nozzle is preferably made of a single block of metal 10, having a threaded shank 11 for entering the end of the delivery pipe 12, and being provided with a radial flange 13 adapted to abut against the end of the pipe 12, this flange preferably being polygonal, as shown in Fig. 3, to provide for the convenient application of a wrench in setting the nozzle into the pipe. The outer face of the nozzle is dished, as shown at 14, the lines of the wall of the cavity converging to the center. The shank 11 is diametrically slotted, as shown at 15, the inner end of the slot being inclined to the center and cutting through the outer face of the nozzle, the intersection of the slot and outer cavity, thus providing a slightly elongated discharge orifice 16. For convenience of manu-

facture, the slot 15 may be formed by the use of a circular saw cutting entirely through the shank 11, such a tool, of course, providing a curved surface at the inner end of the slot, as shown.

As the liquid issues from the orifice 16, it is moving in intersecting lines in a common plane due to the shape of the inner end of the slot 15, and the dished or flaring outer face of the nozzle permits it to spread out in a fan-shaped spray. While the end of the nozzle is shown as dished, in order to permit the spray to spread laterally, it is obvious that any form of construction in which there are not present obstructions to the laterally directed issuing currents, will come within the scope of the invention.

I claim as my invention:—

1. A spraying nozzle, comprising a cap for a tubular conductor having its inner end diametrically and longitudinally slotted, the bottom of the slot converging and its apex opening through the outer face of the cap.

2. A spraying nozzle, comprising a cap for a tubular conductor, having a tapering recess in its outer face and having its inner end diametrically and longitudinally slotted, the bottom of the slot being tapered in form, its apex extending through the outer face of the cap.

3. A spraying nozzle, comprising a cap for a tubular conductor, the outer face of the cap being dished, the inner end of the cap being diametrically and longitudinally recessed, the bottom of the recess tapering to an apex extending through the outer face of the cap.

HARRY D. BINKS.

Witnesses:

LOUIS K. GILLSON,
E. M. KLATCHER.