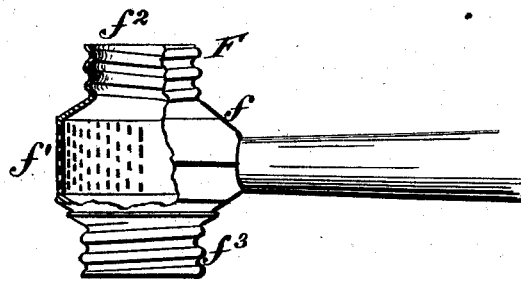


G. YEAGER.  
Spray-Nozzle.

No. 219,337

Patented Sept. 2, 1879.



WITNESSES

*Robert M. Barr*  
Robert M. Barr.

INVENTOR.

*George Yeager*  
*Gilmore, Smith & Co.*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

GEORGE YEAGER, OF FLATONIA, TEXAS.

## IMPROVEMENT IN SPRAY-NOZZLES.

Specification forming part of Letters Patent No. **219,337**, dated September 2, 1879; application filed April 26, 1879.

*To all whom it may concern:*

Be it known that I, GEORGE YEAGER, of Flatonia, in the county of Fayette and State of Texas, have invented certain new and useful Improvements in Pumps; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figure of reference marked thereon.

Identical parts in the drawing are designated and referred to by the same letters.

The figure represents a perspective view of my improved spray-nozzle, partly in section.

This invention has relation to spray-nozzles adapted to be applied to force-pumps for forcing a spray of poisoned liquid upon growing cotton or other plants, to protect them from the ravages of cotton-worms and insects; and it consists in the improvements in the construction of the nozzle, hereinafter fully described, and particularly pointed out in the claim.

Referring to the drawing, F represents the atomizing or spray nozzle, which consists of the body *f*, provided with the perforated zone

*f*<sup>1</sup> and the threaded flanges *f*<sup>2</sup> and caps *f*<sup>3</sup> for closing the same.

This device is preferably formed round, and the caps attached by threads; but I do not wish to confine myself to this form of attachment.

This nozzle may be attached to any ordinary force-pump adapted to be transported through the field for the purpose of spraying the plants with poisonous fluids.

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

In a nozzle for force-pumps for applying atomized poisonous fluids to cotton and other plants, the perforated zone *f*<sup>1</sup>, in combination with the body *f* and the removable caps *f*<sup>3</sup>, as and for the purposes substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE YEAGER.

Witnesses:

J. M. HARRISON,  
C. J. LANE.