(No Model.)

J. W. KILLAM.

Hose Sprinkler.

No. 238,295. Patented March 1, 1881.

Fig. 1.

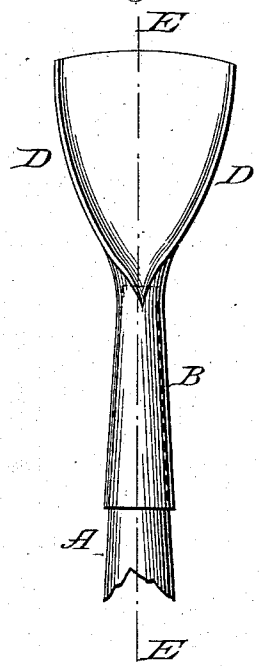


Fig. 2.

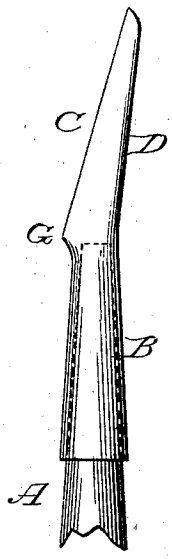


Fig. 3.

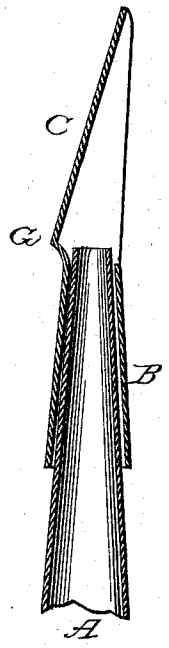
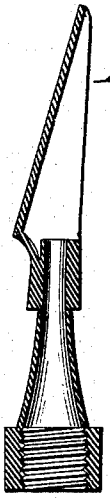


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH W. KILLAM, OF LAKEWOOD, NEW JERSEY.

HOSE-SPRINKLER.

SPECIFICATION forming part of Letters Patent No. 238,295, dated March 1, 1881.

Application filed September 21, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH W. KILLAM, of Lakewood, in the county of Ocean and State of New Jersey, have invented a new and useful Improvement in Nozzles to be Attached to Hand-Hose, which improvement is fully set forth in the following specifications, reference being had to the accompanying drawings.

The object of my invention is to furnish an attachment which may be easily and cheaply applied to a common hand-hose, either of a hand force-pump or of city or village water-works, which will throw a fine spray upon any object on which it may be directed, and at the same time have no liability to clog up to obstruct its working by any foul matter in the water by throwing an independent jet or stream of water against a flat or slightly curved surface in such a manner as to deflect the same from a direct line and break it into a spray coarser or finer as it is more or less deflected from a right line, and as it is projected with more or less force for the purpose of watering or washing plants, carriages, windows, sides of buildings, trees, &c., and various other purposes.

Figure 1 is a horizontal view of my improvement as attached to a hose with a straight plain discharge-pipe, A, by a socket, B, which slips over the outside of the discharge-pipe A. C is the deflecting-plate, held in its place and supported by the ribs or flanges D D. (Shown more fully in Fig. 2.)

Fig. 2 is a vertical view of the same.

The same letters refer to the same parts in all the figures.

Fig. 3 is a vertical section on the dotted lines E E, Fig. 1, showing the space G between the orifice in the end of the discharge-pipe A and the deflecting-plate C. The socket or sleeve B must be of such size as to let the end of the discharge-pipe A enter about as far as represented, and not much farther, to produce its best effect. To manufacture this form of my improvement I take sheet-brass or other metal of a suitable thickness, about No. 24, and cut out a piece of suitable size and shape, and work it into the form required, either by stamping or pressing, or work it up on formers and solder the projection G on the side of the socket or sleeve B, by which the deflecting-plate C is thrown below the end of the discharge-pipe A; or the same may be made by casting.

Fig. 4 is a central vertical section, showing how I make my improvement to put on the discharge-pipe of a common hand-hose by taking off the common nozzle and screwing my improvement in its place. I also make this form from sheet metal soldered up, except the screw-socket, which is made of cast metal.

To attach my improvement to the hose-pipe of a city or village water-works, I unscrew the common nozzle and screw in its place a plain discharge-pipe, with the socket or sleeve of my improvement slipped over or soldered on it, as preferred.

I disclaim a hose-nozzle or sprinkler constructed as represented in United States Patent No. 9,520, dated January 4, 1853, to Richard Hollings; also, United States Patent No. 142,719, dated September 9, 1873, to Amos Nickerson, as I dispense with the regulating apparatus with which they change the angle of the deflecting-plate with the axis of the jet or stream from the discharge-pipe; whereas in mine, being made of one piece of metal, there is no adjustment made after it is manufactured, as they may be made of different angles to suit different purposes, the projection G on the socket or sleeve B answering the purpose of lowering the deflecting-plate C below the end of the discharge-pipe A, as is accomplished in theirs by their hinged apparatus.

I claim—

As a new article of manufacture, the hose-sprinkler, formed of a single piece of cast or sheet metal, and consisting of the deflecting-plate C, having flanges D D, projection G, and socket or sleeve B, substantially as set forth and described.

JOSEPH W. KILLAM.

Witnesses:

ISAAC A. NANSTISE,

ALBERT M. BRADSHAW.