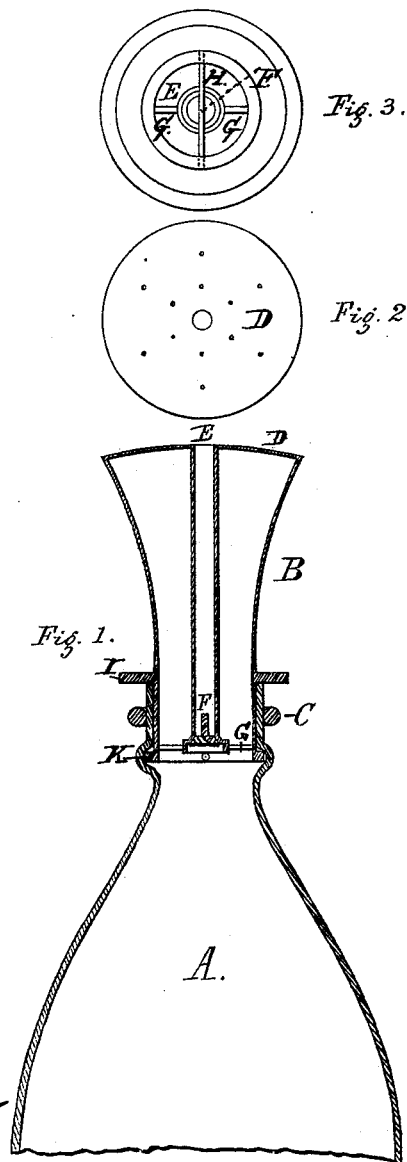


J. SUYDAM.
Plant-Sprinkler.

No. 214,012.

Patented April 8, 1879.



Witnesses.
A. S. DePier.
J. O. Ebbets.

Inventor.
James Suydam
By Jas. R. Ennis
Attorney

UNITED STATES PATENT OFFICE.

JAMES SUYDAM, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN PLANT-SPRINKLERS.

Specification forming part of Letters Patent No. **214,012**, dated April 8, 1879; application filed June 18, 1878.

To all whom it may concern:

Be it known that I, JAMES SUYDAM, of the city of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Plant-Sprinklers; 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 letters of reference marked thereon, which form a part of this specification.

Figure 1 of the accompanying drawings represents a sectional elevation of my invention. Fig. 2 represents a top view of the nozzle. Fig. 3 represents a bottom view of the nozzle with the reservoir detached, showing the valve.

The object of my invention is to furnish a device for sprinkling plants, clothes, floors, and for all similar purposes, by which water is converted into a fine spray and thrown upon the object to be sprinkled, all of which is further explained by reference to the accompanying drawings, in which—

A represents a hollow vessel made of rubber or other elastic material, with one opening, into which is inserted a nozzle, B, which nozzle is secured therein by the contracting force of the rubber, and in addition to which is a rubber ring, C, which compresses the mouth of the reservoir firmly against the periphery of the nozzle, thus forming an air-tight connection.

D is a perforated disk, which forms the top of the nozzle, through which water is forced from the reservoir upon the object to be sprinkled.

E is an inlet-tube, through which water is drawn into the reservoir. F is a valve, which is arranged to open as the water is drawn through the tube E into the reservoir by the pressure of the water from without, and is closed by the pressure of the water against it

from within as the water is forced out through the perforated disk. The outer end of the tube E is supported by the disk D, to which it is secured, while the inner end is held in its place by the arms G.

The tube E is enlarged at its inner end to accommodate the valve F, which is secured therein by the rod H.

My invention is operated by first compressing the elastic reservoir, so as to expel the air. By then immersing the nozzle and relaxing the compression the water will rapidly flow into the vacuum thus made until the reservoir is filled, and by again compressing the reservoir when full the water is forced rapidly through the perforations in the disk, which breaks it into a fine spray, which is thus thrown upon the object to be sprinkled.

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

A metal rose plant-sprinkler constructed with one tube within the other, each communicating directly with the reservoir to insure a uniform flow of water by providing a separate tube for the ingress and egress of water, the inner tube, E, for the ingress of water being pendent from rose D, and extending into the neck of the reservoir, where it is secured by braces G, and having an enlarged opening for the reception of valve F, the outer tube, B, for the egress of water, provided with rose D, and having the flanges I and K and elastic ring C, for securing a water-tight connection with the reservoir, substantially as shown and described.

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

JAMES SUYDAM.

Witnesses:

K. SHAWVAN,
D. G. STUART.