

H. G. FISKE.
Lawn-Sprinkler.

No. 199,816.

Patented Jan. 29, 1878.

Fig. 1.

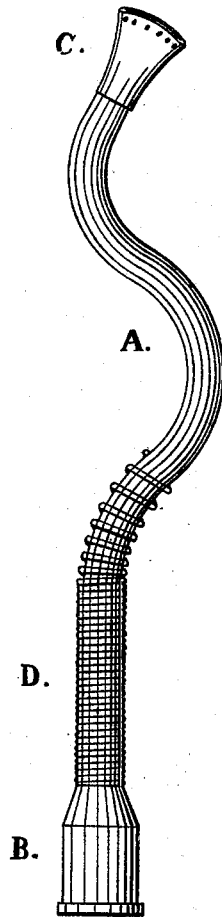
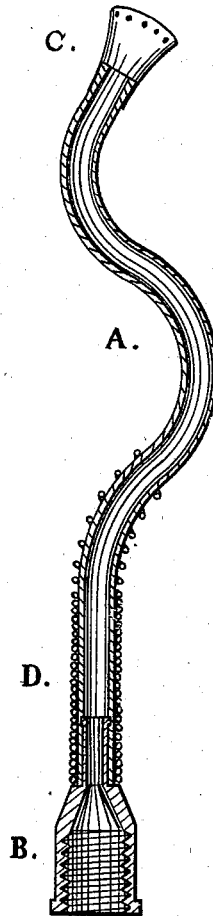


Fig. 2.



Witnesses:

*Roderick Burt -
G. H. Whittemore.*

Inventor:

Henry G. Fiske.

UNITED STATES PATENT OFFICE.

HENRY G. FISKE, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN LAWN-SPRINKLERS.

Specification forming part of Letters Patent No. **199,816**, dated January 29, 1878; application filed January 21, 1878.

To all whom it may concern:

Be it known that I, HENRY G. FISKE, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Lawn-Sprinklers, which is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a vertical view of my sprinkler all complete. Fig. 2 is a sectional view of the same, showing the water-passage through its length.

The object of my invention is to furnish a cheap and convenient sprinkler for watering lawns, gardens, &c.

The nature of my invention consists in a pliable tube, provided with a suitable flattened sheet-spray-producing orifice at its outer extremity, and adapted to be secured at its opposite end to the tip of a common hose-nozzle or suitable hose-coupling. It also consists in providing the said pliable tube with a pliable support at its junction with the said nozzle-tip or coupling, for the purpose of diminishing its pliability at that point, thus giving a better effect, and also increasing its strength and durability, and permitting the water to enter readily.

In the drawings, A indicates the pliable tube. B indicates the tip of a hose-nozzle. C indicates the flattened spray-producing tip, and D the pliable support.

The pliable tube A is represented as being secured upon the nozzle-tip B, and surrounded at this point, and for a short distance above, with the coil of wire D, which gradually increases in pliability as it extends upward, and forms a pliable support for the tube when not in use, as well as otherwise, and overcomes any liability to burst as the water enters from the tip B. The flattened spray-producing orifice or tip C is secured to the outer extremity of said tube, for the purpose of finely dividing the water as it issues therefrom into a sheet of spray.

The operation of this sprinkler is as follows: The tip B being coupled to a water-supply pipe, the water, having a suitable pressure, is forced outward through the tube A and its tip C, which divides it into a broad sheet of spray. Now, as the water is forced upward through the nozzle-tip, it enters the pliable tube A, and begins to straighten it out, and in doing so it has to raise a part of the weight of the tube, which resistance causes the water to back up a little, when, as the water issues at C, the pressure is momentarily relieved, and the tube begins to fall down again, but is immediately raised again and thrown sharply to one side, when, as it discharges, it again drops back. This operation of throwing to and fro is performed very rapidly, and in doing so the water is thrown with much force in all directions, it exceeding the revolving sprinkler as to distance.

The tube A may be made of any suitable pliable material; but I prefer rubber, on account of its elastic qualities. The pliable support may be made as a part of the tube A; but I think it stronger and more durable to be made of metallic wire coiled so that its pliability shall gradually increase from its lower to its upper end. The tip C may be perforated in addition to having it flattened in the form of a slotted orifice, as in drawing.

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

In a lawn-sprinkler, the combination of the pliable tube A with the supporting-base D, increasing in flexibility from near the tip B to its outer end, substantially as shown and described.

HENRY G. FISKE.

Witnesses:

RODERICK BURT,
G. H. WHITEMORE.