(No Model.)

D. A. HOYT.

LAWN SPRINKLER.

No. 440,159. Patented Nov. 11, 1890.

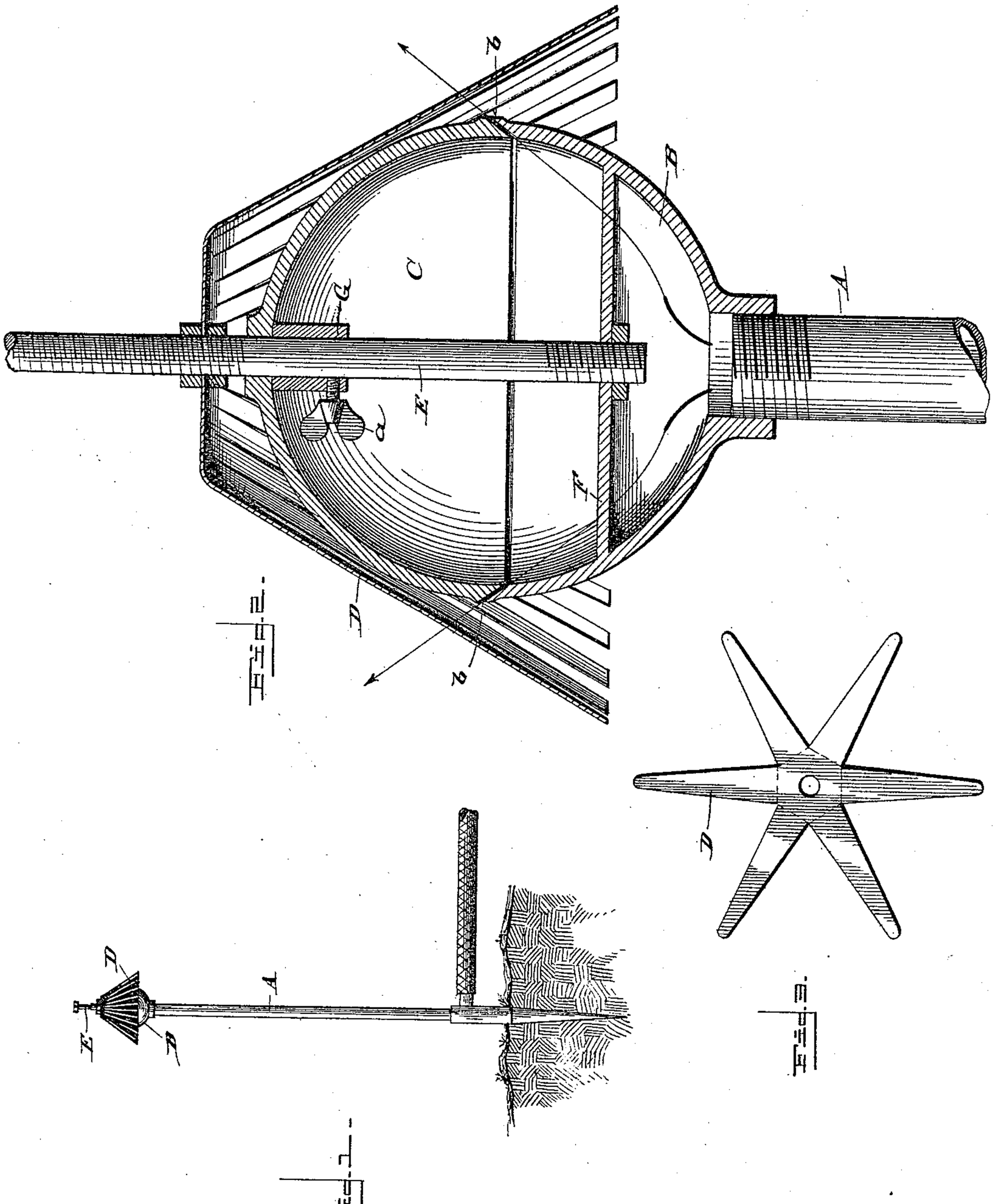

Fig. 2.

Fig. 3.

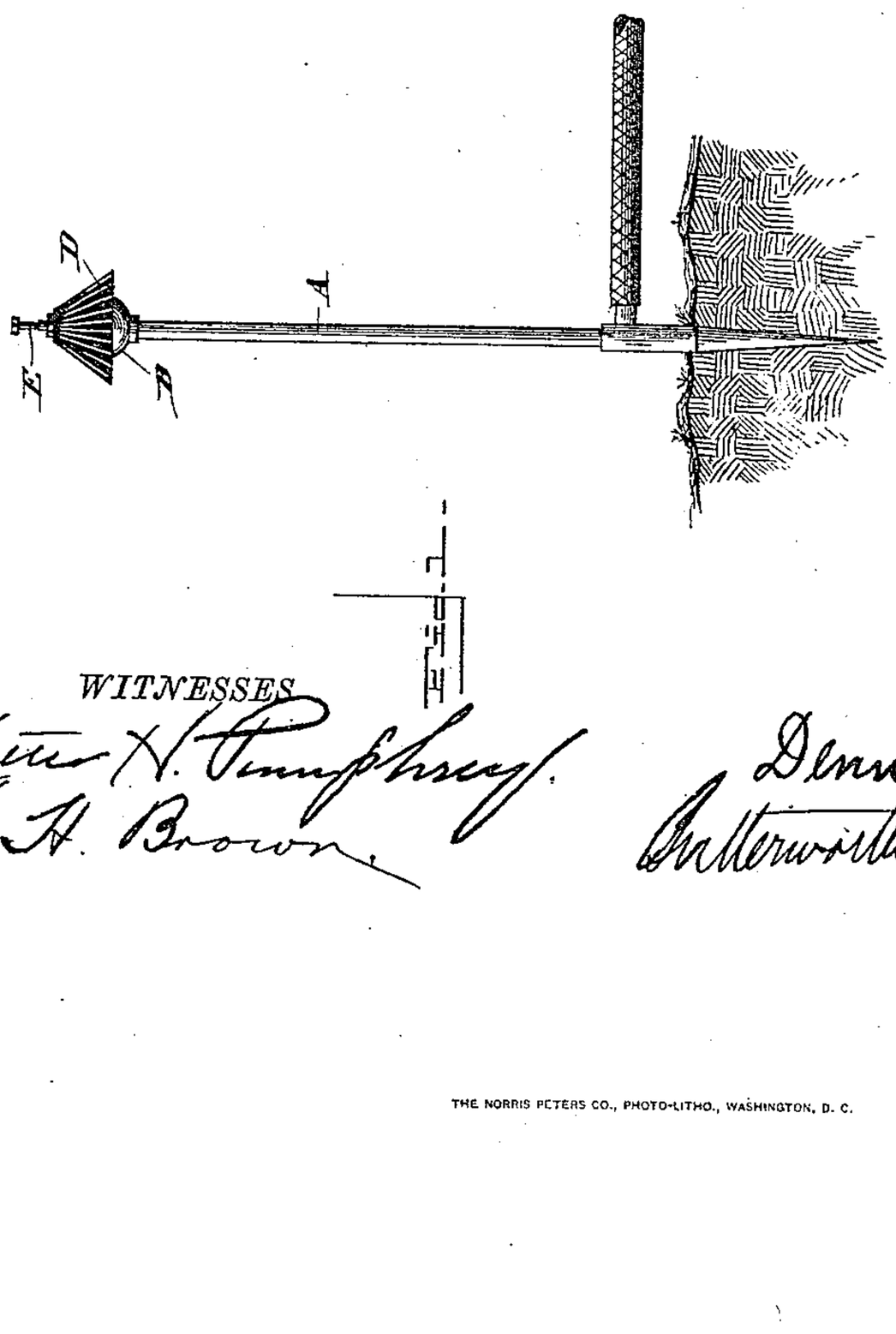

Fig. 1.

WITNESSES

Walter N. Humphrey.

T. H. Brown.

INVENTOR

Dennis A. Hoyt, by

Butterworth Hall & Brown

Attorney

UNITED STATES PATENT OFFICE.

DENNIS ALMON HOYT, OF ST. CLOUD, MINNESOTA.

LAWN-SPRINKLER.

SPECIFICATION forming part of Letters Patent No. 440,159, dated November 11, 1890.

Application filed July 30, 1890. Serial No. 360,377. (No model.)

To all whom it may concern:

Be it known that I, DENNIS ALMON HOYT, a citizen of the United States, residing at St. Cloud, in the county of Stearns and State of Minnesota, have invented certain new and useful Improvements in Lawn-Sprinklers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a sprinkler adapted to various situations, but specially designed as a lawn-sprinkler.

The invention consists in the construction and arrangement hereinafter set forth in the description, and pointed out in the claims.

The same letters refer to like parts in the several figures of the drawings, in which—

Figure 1 represents a side elevation of my sprinkler as it is applied in actual use. Fig. 2 is a vertical section of the sprinkler-head and portions of the adjoining parts. Fig. 3 is a top view of the deflector or shield before being bent.

A suitable tube A is mounted in a vertical position upon any suitable support, but preferably upon a pointed foot, which enables it to be forced into the ground. The main tube A is connected to my sprinkler by means of screw-threads arranged therein, or otherwise, which latter is composed of two parts B and C. I prefer to construct the part B of hemispherical form, with its mouth directed upward and having cast therewith a bar or step F, for a purpose hereinafter to be described. The part C is similar in construction to the part B, except that its mouth is turned downward, and it is made adjustable to and from the part B by some appropriate mechanism, such as that shown in the drawings, and which will be now described.

I mount a vertical rod E on the bar or step F and project such rod outward and through an aperture formed in the top of the part C, the latter being fastened thereon by means of a collar G, arranged to encircle the rod and adjustable thereon by means of a set-screw *a*, as is shown. Arranged upon the same rod is a shield or deflector D, which in this instance is shown as consisting of a metallic, preferably tin, piece extending downward and beyond the apertures *b*, arranged for the exit of the water from the sprinkler-head. This metallic piece D is conveniently formed of a flaring or bell shape, and is cut into a number of strips with the slits gradually widening as they extend to the end of the flaring deflector. In Fig. 3 the deflector D is shown as cut from a sheet of tin before being bent, as shown in Fig. 2.

I have described the preferred form of my invention; but it is obvious that many modifications might readily be made in the several features thereof, which would be within the skill of a mechanic and would not depart from the spirit or principle of my invention.

I have found that the construction shown and described is both economical and efficient, and also is very simple and therefore easy to manipulate.

The operation is as follows: Water is conducted by any convenient system of tubing to the pipe or tube A, and thence to the sprinkler-head, from which it is forced through the openings *b* and is directed against the deflector or shield D, by which it is broken and caused to be well scattered and distributed. The openings *b* are formed by the space left between the hemispherical heads B and C, and they may consist of a continuous space of the same thickness or otherwise, as is usual. The size of the openings, and consequently the amount of water issuing therefrom, is regulated by the adjustment of the upper hemispherical part C of the sprinkler-head upon the rod E by means of the collar G and the set-screw *a*.

What I claim, and desire to secure by Letters Patent, is—

1. A sprinkler comprising two hemispherical portions with a space between their adjacent edges, the one portion adjustable with reference to the other portion and a flaring deflector on the outside of such portion and arranged to extend over the apertures formed by the spaces between said portions, substantially as and for the purpose set forth.

2. A sprinkler comprising two hemispherical portions with a space between their adjacent edges and a deflector surrounding such portions and composed of a single piece of metal formed into a series of strips, substantially as and for the purpose set forth.

3. A sprinkler comprising two hemispherical portions, one having a step in which is secured a rod and the other a collar and set-screw for adjusting the same upon said rod, and a flaring deflector arranged to inclose said portions and carried by the rod and upper hemispherical portion, substantially as and for the purpose set forth.

4. A lawn-sprinkler comprising a suitable stand, pipes communicating with the sprinkler-head composed of two hemispherical portions having a space between their adjacent edges and adjustable with reference to each other, and an outer flaring deflector formed of a single piece of metal cut into a series of strips, substantially as and for the purpose set forth.

DENNIS ALMON HOYT.

Witnesses:
CLARENCE L. ATWOOD,
MICHAEL A. LEISEN.