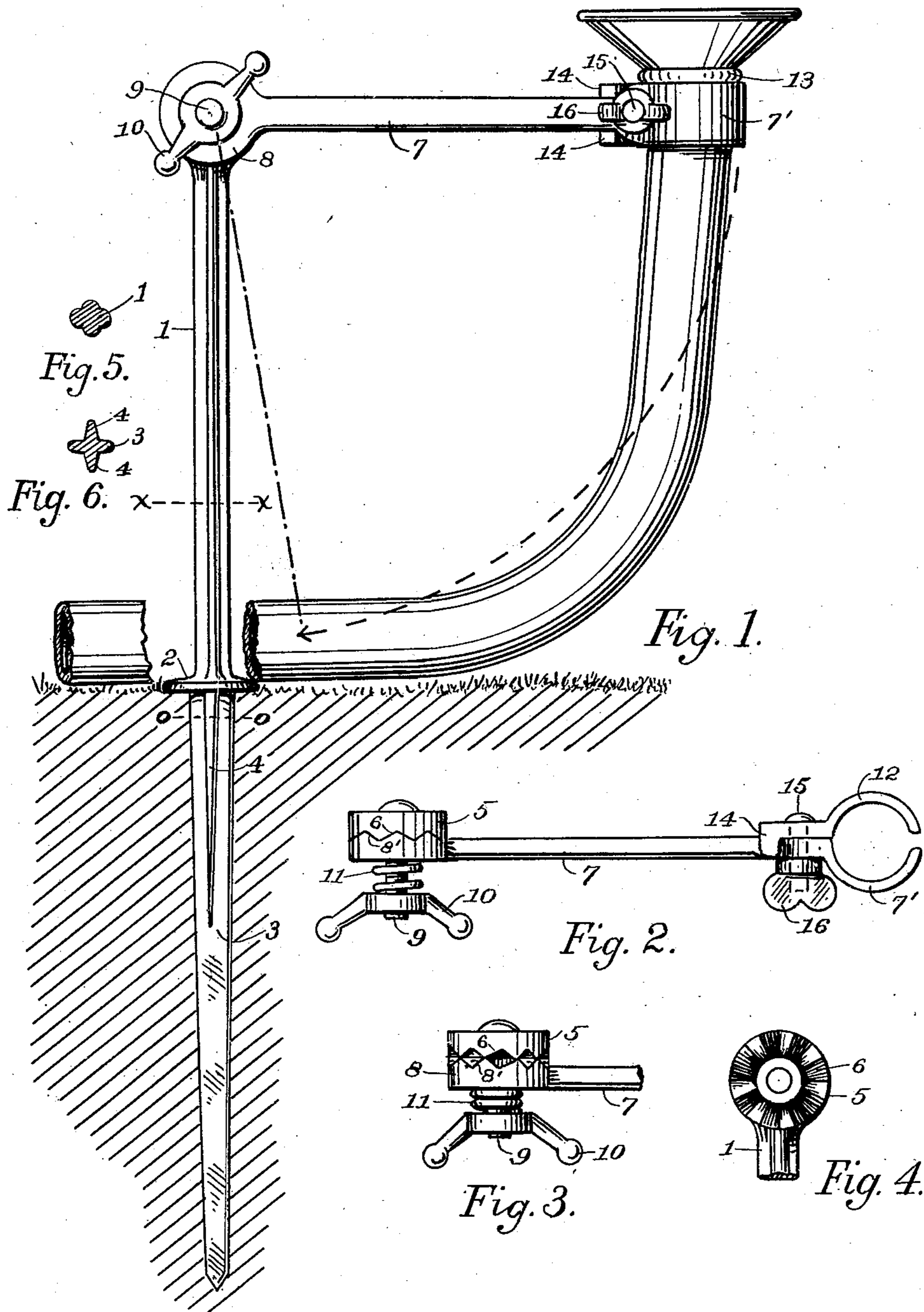


No. 755,995.

PATENTED MAR. 29, 1904.

C. F. BROWN.
HOSE NOZZLE HOLDER.
APPLICATION FILED OCT. 2, 1903.

NO MODEL.



WITNESSES:

Gaston E. Cordeau
William A. Hoschke

INVENTOR
CHARLES FRED. BROWN

BY
E. J. Gammert
ATTORNEY

UNITED STATES PATENT OFFICE.

CHARLES FREDERICK BROWN, OF CHATTANOOGA, TENNESSEE.

HOSE-NOZZLE HOLDER.

SPECIFICATION forming part of Letters Patent No. 755,995, dated March 29, 1904.

Application filed October 2, 1903. Serial No. 175,450. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FREDERICK BROWN, a citizen of the United States, and a resident of the city of Chattanooga, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Hose-Nozzle Holders, of which the following is a specification.

My invention relates to an improvement in nozzle-holders, more particularly those intended for sprinkling lawns and gardens, the objects being to produce a device which is capable of supporting the nozzle near or at a distance from the ground and to give direction at a distance from said holder to the stream ejected by the nozzle and, furthermore, to permit adjustment without unscrewing the holding means.

I will premise my description by stating that heretofore it was necessary in order to change the direction of the stream from a vertical to a horizontal one or anywhere between these two extreme points to first shut off the water, then adjust the holder, and again turn on the water. By my improved construction the angle of the supporting-arm can be changed from a distance by grasping the hose and pulling it until the desired angle is reached.

The accompanying drawings, which form part of this specification, show in Figure 1 a side elevation of my improved nozzle-holder, the hose being broken away. Fig. 2 is a plan view, the hose being removed. Fig. 3 shows the pivotal disks with serrated contact-faces at a moment when the arm is "slipping a tooth," so to speak. Fig. 4 is a side elevation of the serrated face of the stand, the face of the arm being similar. Fig. 5 is a cross-section of stand at X X, and Fig. 6 is a cross-section of the ground-piece at O O. Dotted segmental line shows radial movement of arm, and dot-and-dash line shows arm at a different angle from that shown in the outline.

Similar characters of reference refer to similar parts in the several views.

I prefer to make all the several parts of cast metal, so that there will be no machine labor necessary to finish the completed article. For the cheaper grades cast or malleable iron, galvanized, I find very serviceable.

1 is the stand, having a foot 2 and ground-piece 3. The stand may be in the shape of a quatrefoil, as shown in Figs. 1 and 5, and the ground-piece may be flat, but with a wedge-shaped rib 4 on each face to prevent the stand from turning around axially when forced down into the ground. The foot 2 may be round, oval, or of any other desired shape, the object being to afford a foothold whereby the stand can be forced down by the weight of the person positioning the holder and to indicate a limit-mark.

5 is a disk at the upper end of the stand, one of its faces being provided with a series of beveled teeth 6, the inclines and declines being of the same angle.

7 is the adjustable arm, having on one end a disk 8, provided on its inner face with a series of teeth 8', which mesh with and fit the teeth on the stand-disk 5. (Shown in Fig. 2.)

9 is a bolt.

10 is a winged nut.

11 is a spiral spring of few convolutions.

At the free end of the arm 7 is a semicircular band 7', which, with a semicircular clamp-piece 12, holds the hose or nozzle 13.

14 represents two projections or bosses cast on the clamp-piece 12 for the purpose of keeping it in place and alinement on the arm 7.

15 is a short bolt, and 16 is a suitable winged nut.

The two disks, with the bolt and spring, form a frictional ratchet.

It is obvious that the disk of both the stand and arm, as well as the free end of arm and the clamp-piece, are provided with holes for the passage of the two bolts mentioned, the holes being cast in the metal.

Such being the construction, the operation is as follows: The ground-piece is forced down into its place to the limit, if desired. The hose or nozzle is clamped fast at the free end of the adjustable arm and the latter is set horizontally. The winged nut 10 is tightened just sufficiently against the spiral spring so that the pressure of the latter will keep the two disks closely together, as shown in Fig. 2. When the water is turned on, the nozzle will throw a vertical stream. To adjust or change the angle, grasp the hose and pull it in the direc-

tion of its curve and so that the hose rubs against the stand. When the pull strain overcomes the tension of the spiral spring, the arm will move radially one tooth, and this manner
5 of adjustment can be repeated until an almost horizontal stream is had. The water may then be shut off and the stand changed to another section of the lawn and the same operation be repeated, it being necessary, of course, to pull
10 the free end of the adjustable arm upward in order to get a vertical stream.

The holder constructed according to the above description is light in weight, can be cheaply made without any press, no punching
15 or "machining" being required. It can be easily shipped in a knockdown condition, and there is nothing liable to get out of order.

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

1. In a hose-nozzle holder, a stand having a foot, a ground-piece and a disk with beveled teeth on one side of its face all cast integral, in combination with an adjustable arm pro-
25 vided at its free end with means for supporting a hose-nozzle and having a serrated disk at its pivotal end, the teeth of said disk being adapted to slide by the teeth on the disk of the stationary piece, said two disks being held
30 operatively together by means of a bolt and spring, substantially as described.

2. In a hose-nozzle holder, a stand having a foot, a ground-piece, and a disk with beveled teeth on one of its faces, all cast integral, an arm having a disk at one end, said disk being
35 provided with beveled teeth on one of its faces to mesh into the teeth on the disk of said stand, the teeth of one disk sliding by those of the other when in operation, and having on its free end a clamping means for supporting a
40 nozzle, a spiral spring to keep the said two serrated disks together, and means for increasing the pressure on said spring, substantially as described.

3. In a hose-nozzle holder, a stand provided
45 with a foot-piece, said stand having a disk with beveled teeth on one of its faces, an adjustable arm provided on its free end with means for supporting a hose-nozzle and a disk with beveled teeth at its pivotal end, said disk
50 contacting with the disk of said stand and so arranged that the teeth of one disk will slide by those of the other, and means for holding said two disks operatively together.

Signed at Chattanooga, in the county of
55 Hamilton and State of Tennessee, this 29th day of September, A. D. 1903.

CHARLES FREDERICK BROWN

Witnesses:

J. H. McALISTER,
J. SEEMAN.