

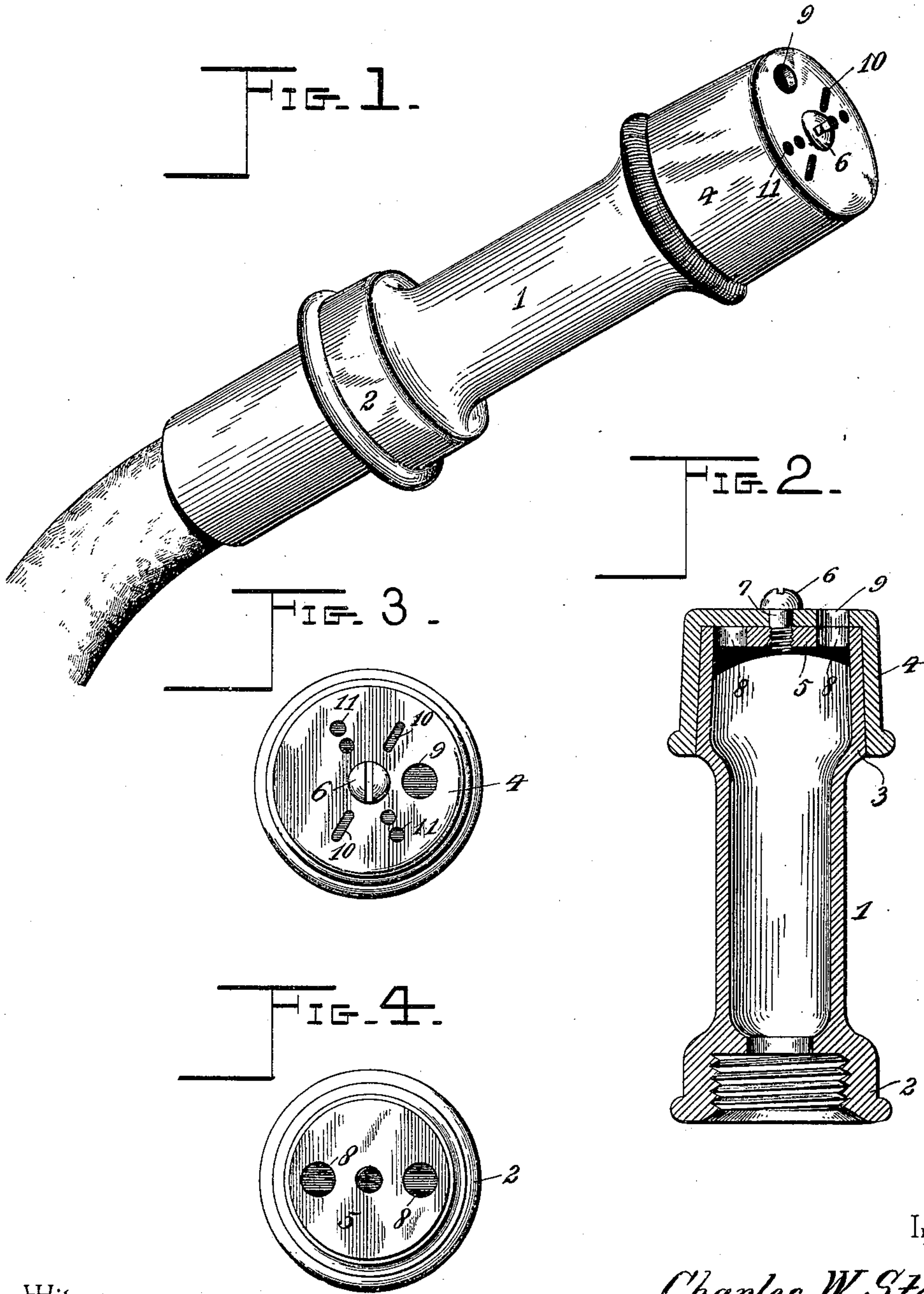
No. 659,714.

Patented Oct. 16, 1900.

C. W. STORM.  
HOSE NOZZLE.

(Application filed Aug. 9, 1897. Renewed Feb. 24, 1900.)

(No Model.)



Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

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## HOSE-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 659,714, dated October 16, 1900.

Application filed August 9, 1897. Renewed February 24, 1900. Serial No. 6,413. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES WILLIAM STORM, a citizen of the United States, residing at Elgin, in the county of Kane and State of Illinois, have invented a new and useful Hose-  
5 Nozzle, of which the following is a specification.

The invention relates to improvements in hose-nozzles.

10 The object of the present invention is to improve the construction of hose-nozzles and to provide a simple and efficient one adapted to form an efficient lawn and garden sprinkler and capable of ready adjustment to vary the  
15 size of the discharge orifice or orifices to produce a stream of the desired size and character.

The invention consists in the construction and novel combination and arrangement of  
20 parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a hose-nozzle constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is  
25 an end elevation. Fig. 4 is an end elevation of the nozzle, the rotary cap being removed.

Like numerals of reference designate corresponding parts in the several figures of the  
30 drawings.

1 designates a nozzle interiorly threaded at its inner end 2 to screw on a hose and provided at its outer end with a head 3, exteriorly tapering outwardly and receiving an interiorly-tapered cap 4, which is centrally secured to the end 5 of the head of the nozzle by a screw 6. The end of the nozzle is provided with a central threaded perforation to  
40 receive the screw 6, which is provided with a smooth portion 7, arranged adjacent to its head and passing through a smooth perforation of the rotary cap. The screw detachably secures the rotary cap to the nozzle and  
45 enables the former to be drawn tightly on the latter, the tapering portions forming a tight joint and obviating the necessity of employing a washer.

The end 5 of the nozzle is provided with opposite circular discharge-orifices 8, and the rotary cap is provided with discharge-openings 9, 10, and 11, which are adapted to be brought  
50 into register with the openings of the nozzle to vary the size and character of the stream in order that the latter may be scattered for

sprinkling or concentrated to a greater or less extent for other purposes. The opening 9 is circular and is of the same diameter as the openings 8 of the end of the nozzle. The openings 10 are oblong or in the nature of slots to  
60 provide a flat stream, and the openings 11 consist of perforations. Other forms of openings may of course be provided, if desired, to cause the nozzle to throw a stream of any kind.

The invention has the following advantages: The hose-nozzle is simple and comparatively inexpensive in construction, and it is capable of ready adjustment to bring any of the openings of the rotary cap in register with the discharge-orifices of the end of the  
70 nozzle. The cap may be readily removed, and the screw which provides such detachable connection also serves to draw the tapering parts sufficiently close together to provide a tight joint, so that a washer may be dispensed  
75 with. Besides securing the cap to the nozzle the screw also serves as a pivot, and the cap is adapted to be adjusted without manipulating the screw.

Changes in the form, proportion, and minor  
80 details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

The combination of a nozzle provided with  
85 an exteriorly-tapered head and having a discharge-orifice at the end thereof, said head being provided with a centrally-arranged threaded perforation, an interiorly-tapered rotary cap arranged on the head and provided  
90 with discharge-openings adapted to be brought into register with the discharge-orifice of the head of the nozzle, and a single screw passing centrally through the cap and engaging the threaded perforation of the  
95 head, and serving both as the securing means for the cap and the pivot for the same, whereby the cap is detachably secured to the head and is held sufficiently tight to form an effective  
100 joint, said cap being capable of adjustment without adjusting the screw, substantially as described.

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

CHARLES WILLIAM STORM.

Witnesses:

GEO. H. McDONALD,  
E. R. BOLLES.