

(No Model.)

E. D. KELLERMAN.
ATTACHMENT FOR HOSE NOZZLES.

No. 597,648.

Patented Jan. 18, 1898.

FIG. 1.

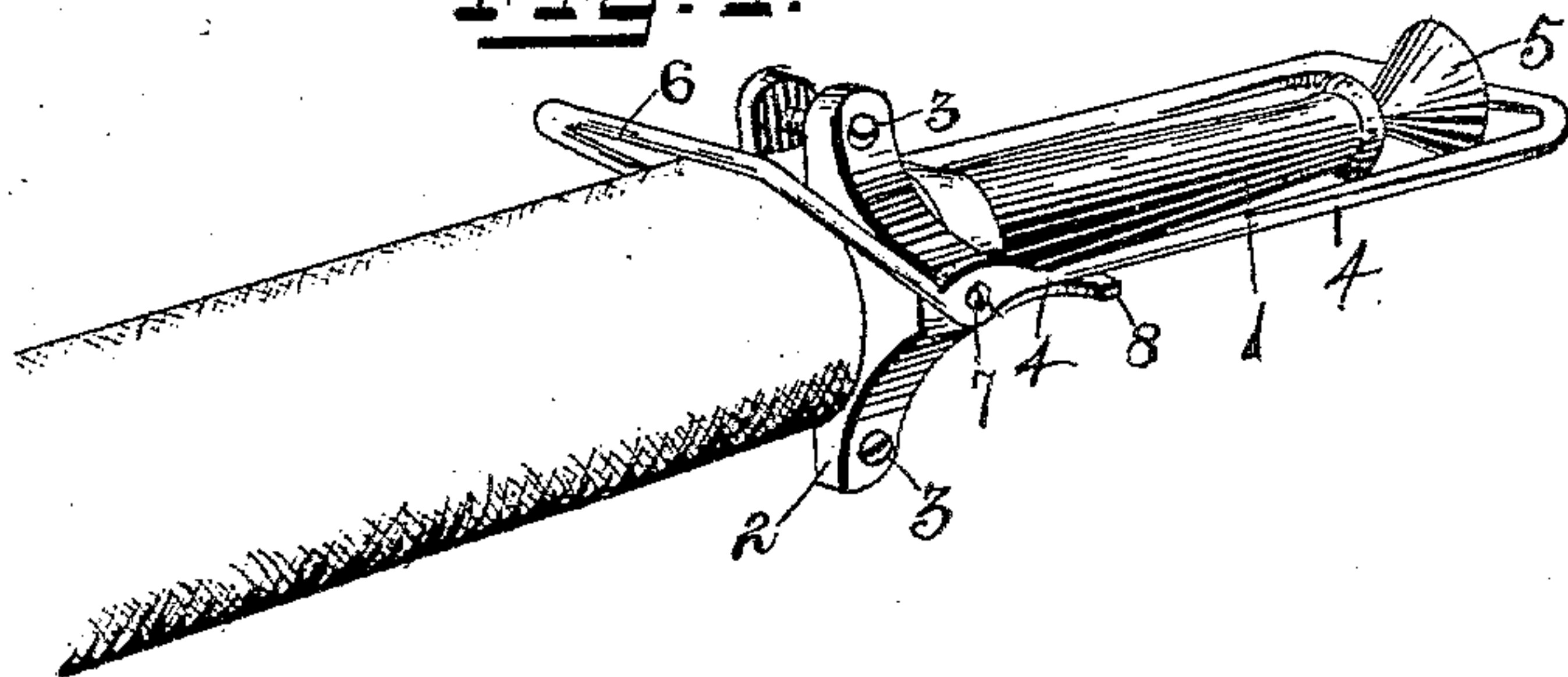


FIG. 2.

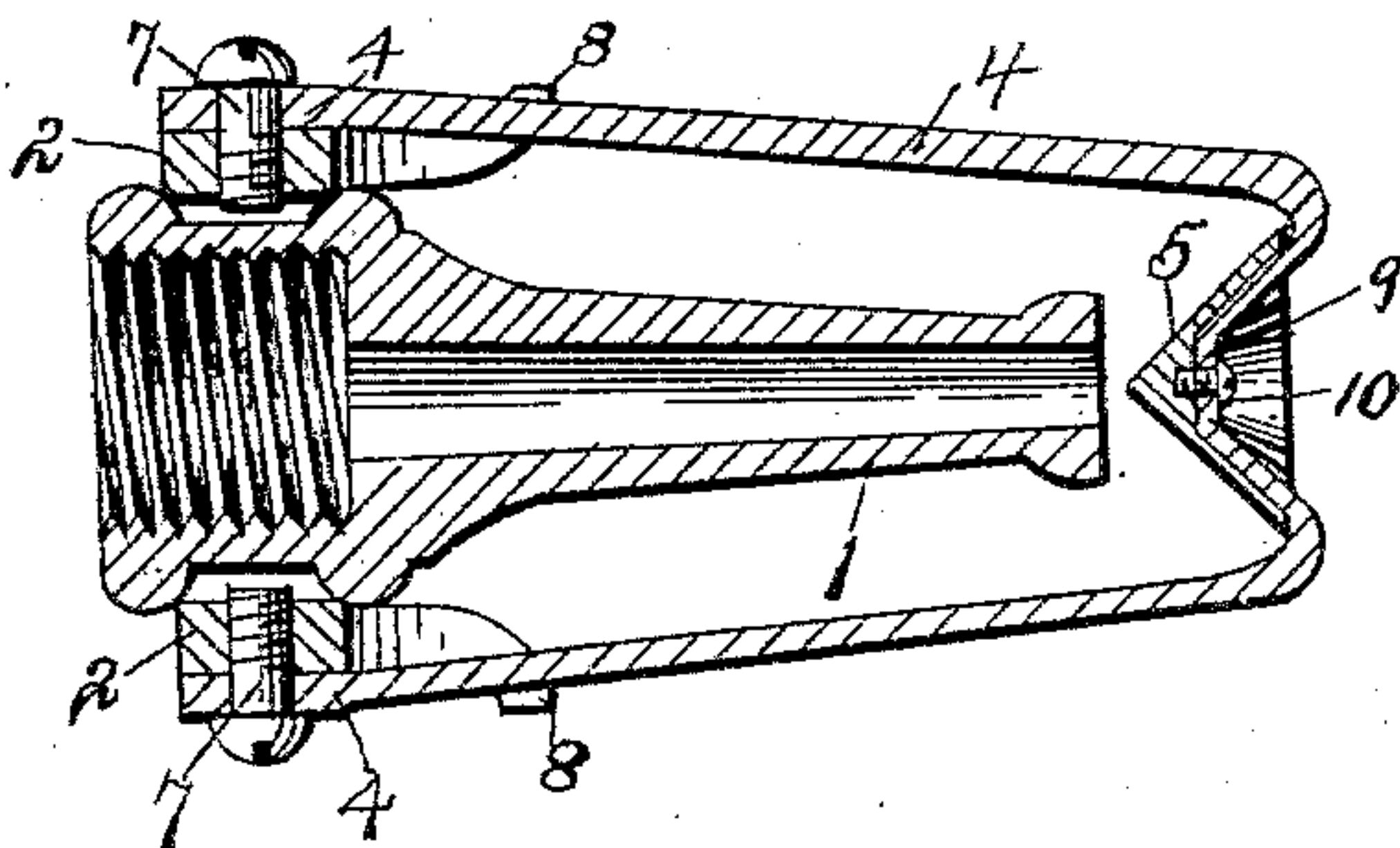


FIG. 3.

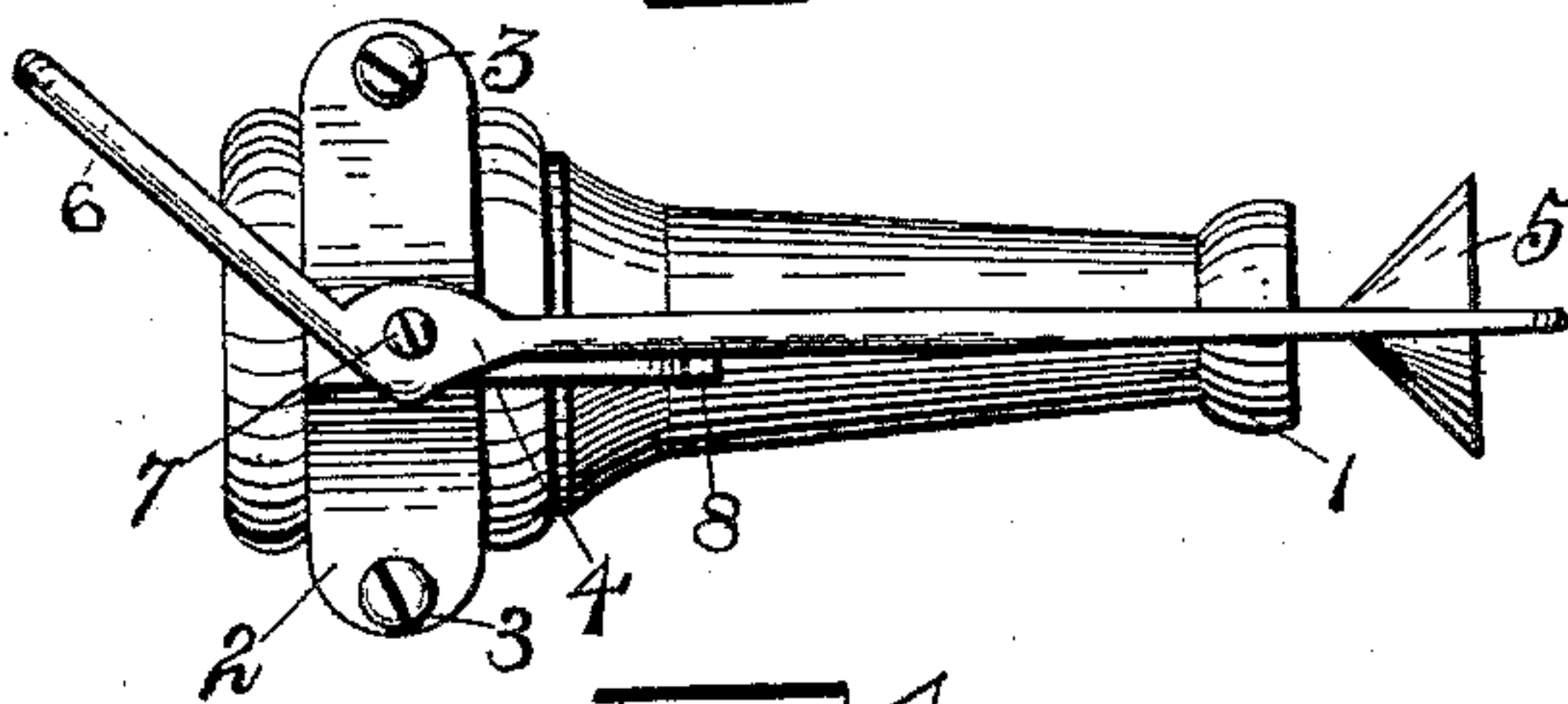
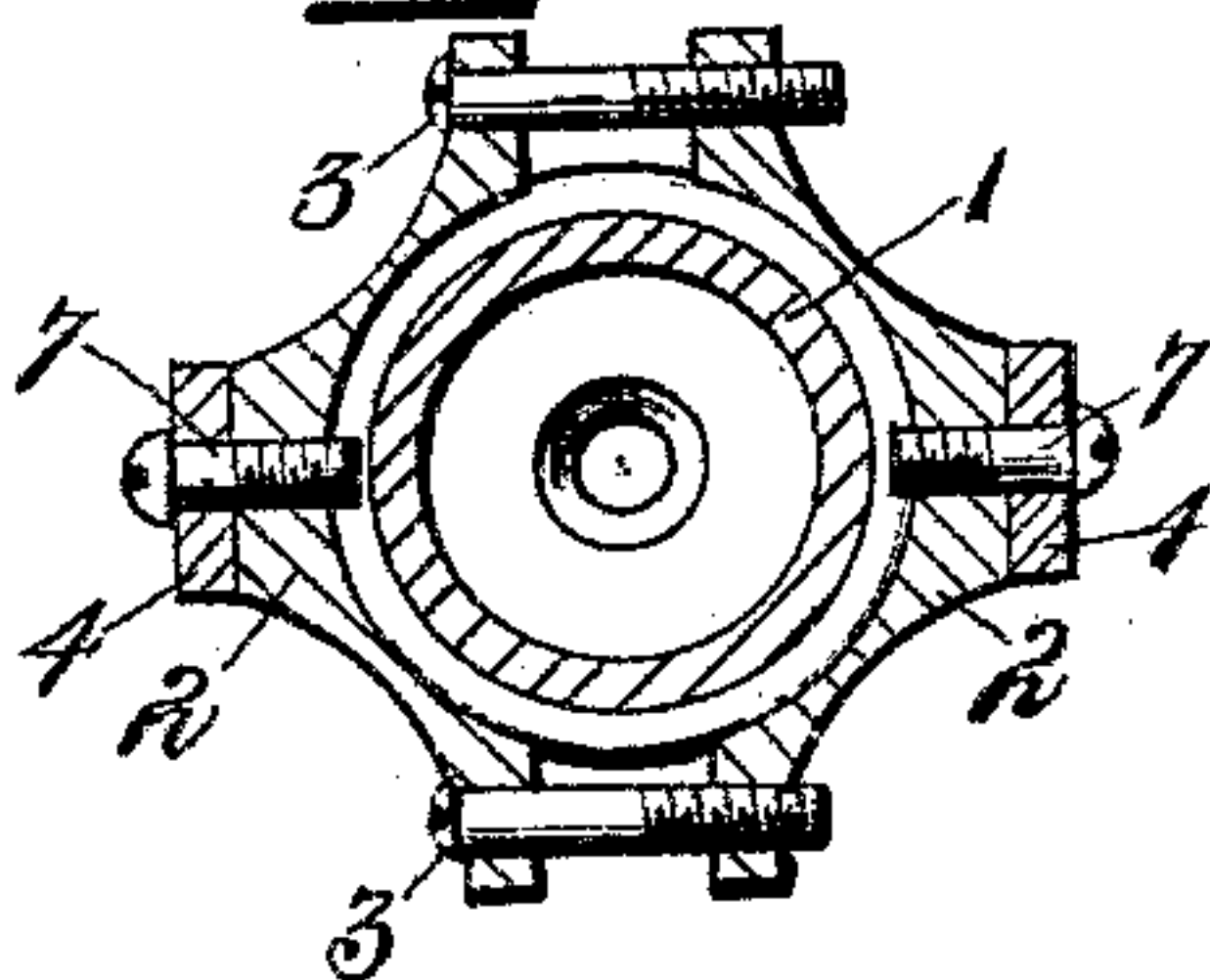


FIG. 4.



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ATTACHMENT FOR HOSE-NOZZLES.

SPECIFICATION forming part of Letters Patent No. 597,648, dated January 18, 1898.

Application filed April 10, 1897. Serial No. 631,526. (No model.)

To all whom it may concern:

Be it known that I, ELLSWORTH D. KELLERMAN, a citizen of the United States, residing at Montesano, in the county of Chehalis and State of Washington, have invented certain new and useful Improvements in Attachments for Hose-Nozzles; 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.

The object of this invention is to provide a hose-nozzle with means for changing the discharge from a solid stream to a spray, and vice versa, with ease and rapidity, the attachment attaining this end without reducing the size of the outlet-opening of the nozzle. In the ordinary ball-valve or cut-off for nozzles the character of the outlet-opening is changed to form a spray, and by the usual manner of making this change the discharge or outlet opening is considerably reduced. Another objection to the ordinary hose-nozzle attachment is the time required in the manipulation of the same.

My improved attachment contemplates a construction by which a conical deflector is swung into and away from the mouth of the nozzle, the said deflector acting to divide the water to form a spray.

In the following specification I have entered into a detailed description of the several parts which constitute my invention, reference being had to the accompanying drawings and to numerals thereon which designate the different parts, and what I consider to be the novel features are specifically recited in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view showing the application of my invention. Fig. 2 is a sectional view; Fig. 3, a side elevation, and Fig. 4 a transverse sectional view.

Referring to the drawings by numerals, 1 designates an ordinary hose-nozzle which may be of any construction, the nozzle illustrated herein being merely to show the application of my invention or attachment.

2 designates a clip which forms the manner of connecting my attachment to the hose-nozzle, the clip shown in the drawings consisting of two sections having circular recesses and

projecting ends, the latter being pierced to receive screws 3, by which the said sections are clamped upon the nozzle. This clip forms a support for the frame, consisting of the side members 4 4, which are turned inwardly at one end and secured to a conical section or deflector 5, the opposite ends of the member being brought together to form a cross-bar 6, that provides an operating-handle. This frame is in swinging engagement with the clip by means of the pivot-pins 7, and swinging movement is limited in one direction by the projections or stops 8, the opposite movement being limited by the cross-bar striking the nozzle. The frame which carries the conical deflector is preferably constructed of wire, the intermediate portion being bent to present the cross-bar, and the ends which are attached to the deflector are preferably flattened, as shown, to offer the least obstruction to the flow of the water. The side members of the frame are bent at the pivot-point to locate the part carrying the cross-bar at an angle with the other part of the frame, and when the said frame is constructed as hereinbefore mentioned the bends in the side members are flattened to form the bearing. Instead of connecting the ends of the frame rigidly to the conical deflector the deflector may be removably attached to the device in order that it may be changed for one of a different size. To this end the outer end of the frame is bent into an angular portion 9, having a central aperture therein, and the conical deflector is enlarged centrally and provided with a threaded aperture to receive the screw 10, that engages therewith and with the aperture in the angular portion.

By providing a hose with the attachment herein shown and described the frame can be swung out of line with the nozzle and a solid stream will be given, and when a spray is desired it is only necessary to swing the frame so that the deflector will be on a line with the discharge-opening of the nozzle and divide the flow. This operation of changing the stream is quickly accomplished, and it will be noted that the deflector does not interfere with the discharge-opening, but simply acts to divide the water. The stops which limit the swinging movement of the frame are located with respect thereto as to position, the

point of the conical deflector on a line with the center of the discharge-opening, so that the stream will be divided to give a uniform spray. The movement of the frame away
5 from the mouth of the nozzle is limited by the cross-bar, and it will be noted that said cross-bar forms the handle or means by which the frame is swung or operated, the attachment being located so that the thumb of the
10 hand which holds the nozzle can be made to operate the spraying attachment.

It will be understood that the attachment, consisting simply of the frame and deflector carried thereby, could be pivoted directly to
15 the nozzle and the said nozzle provided with the necessary stops for limiting the flow of the water. In other words, the attachment could be made a part of a hose-nozzle instead of being provided as a separate attachment.
20 It will also be understood that instead of providing a conical deflector the configuration of the same could be changed.

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

1. An attachment for hose, consisting of a frame in swinging engagement with the nozzle and having a cross-bar which limits its movement in one direction, a deflector at-
30 tached to the frame, and stops limiting the

opposite throw of the frame, the said stops being so located as to position the deflector immediately in front of the mouth of the nozzle, substantially as shown and for the purpose set forth.

2. An attachment for hose, consisting of a frame in swinging engagement with the nozzle, an angular portion forming the outer part of the frame, a deflector removably attached to the angular portion, and stops for limiting
40 the throw of the frame in one direction, substantially as shown and for the purpose set forth.

3. An attachment for hose, consisting of a clip adapted to be clamped upon the nozzle,
45 a frame in swinging engagement with the clip and having a deflector attached thereto and stops projecting from the clip to limit the throw of the frame and locate the deflector immediately in front of the mouth or exit-
50 opening of the nozzle, substantially as shown and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ELLSWORTH D. KELLERMAN.

Witnesses:

H. B. MARTIN,

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