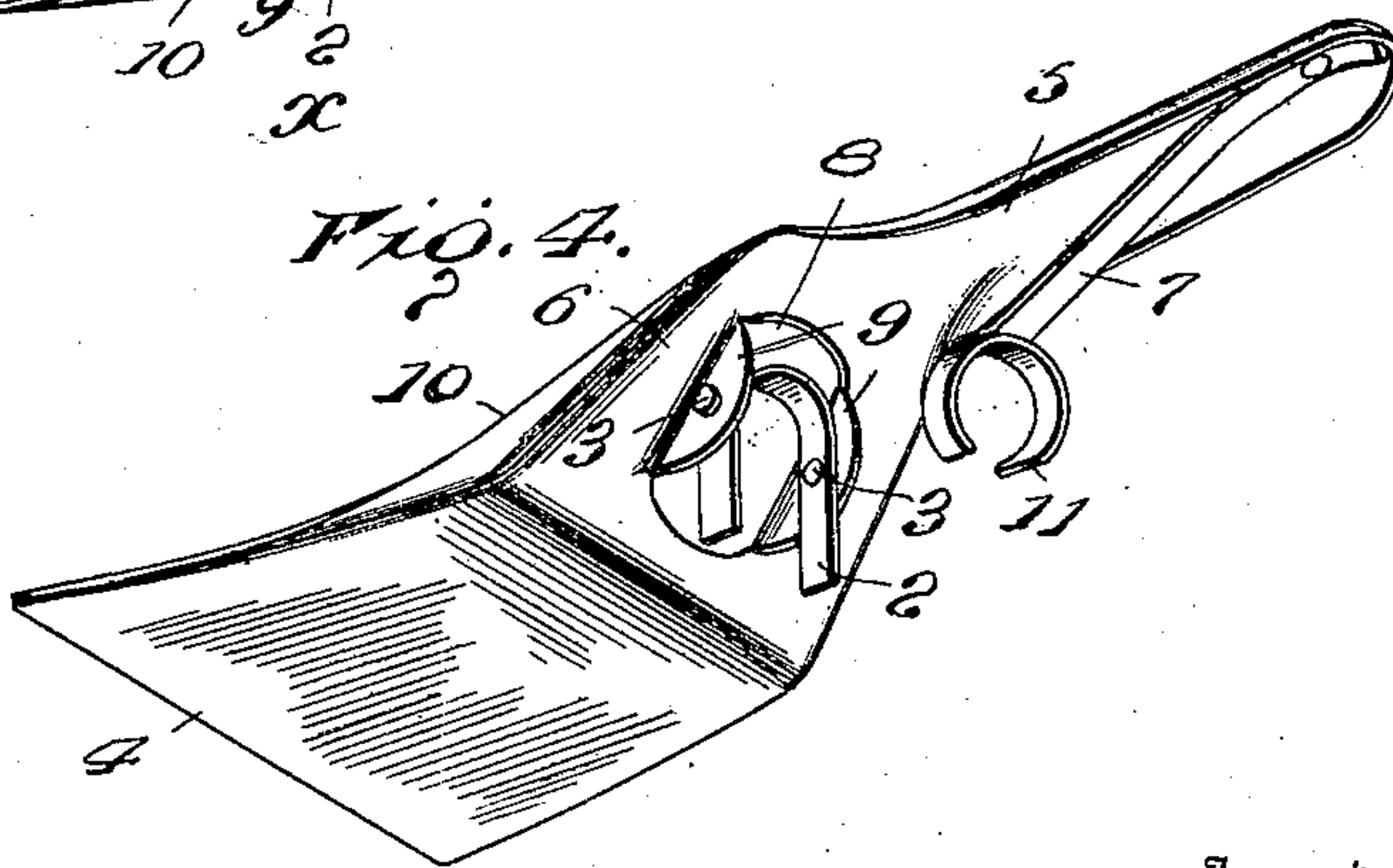
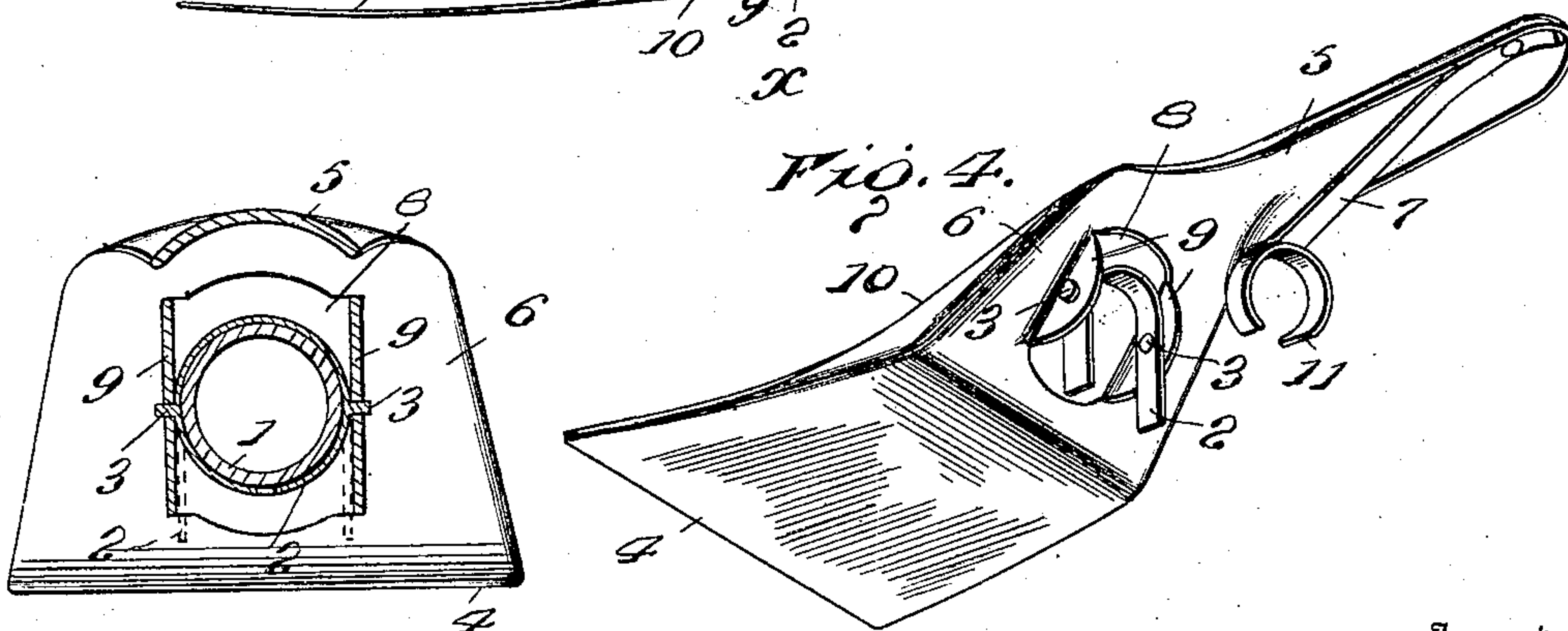
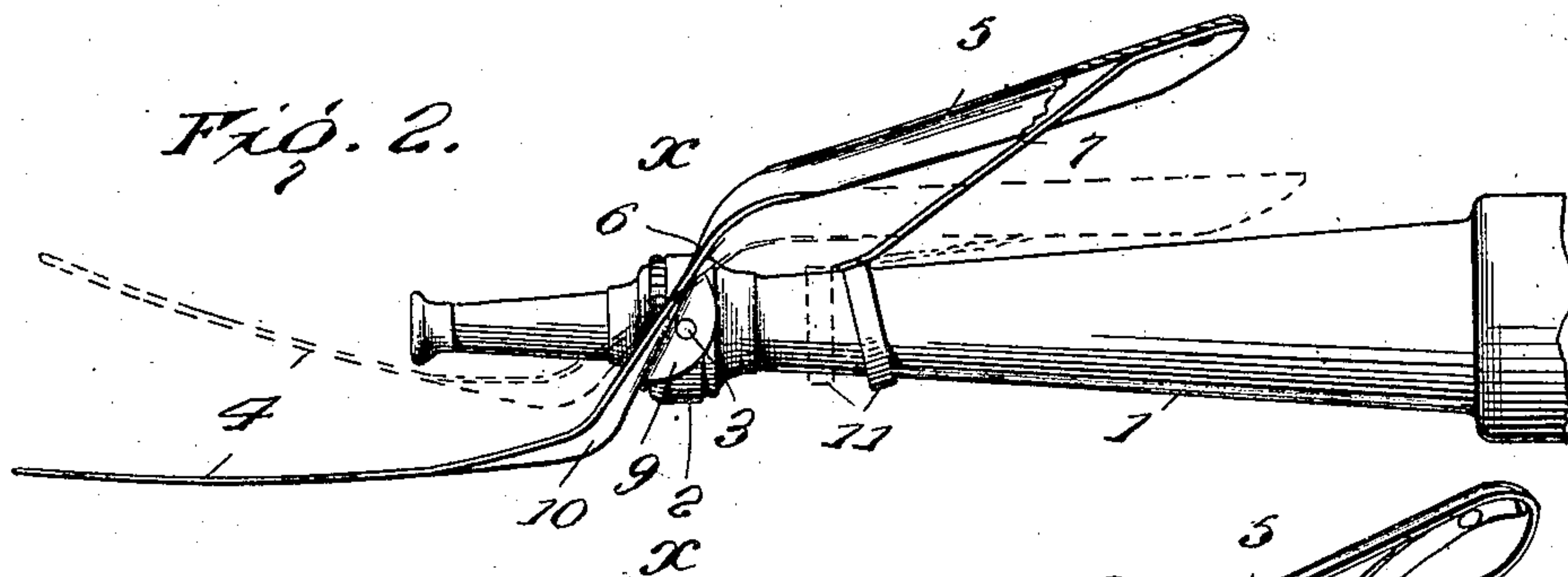
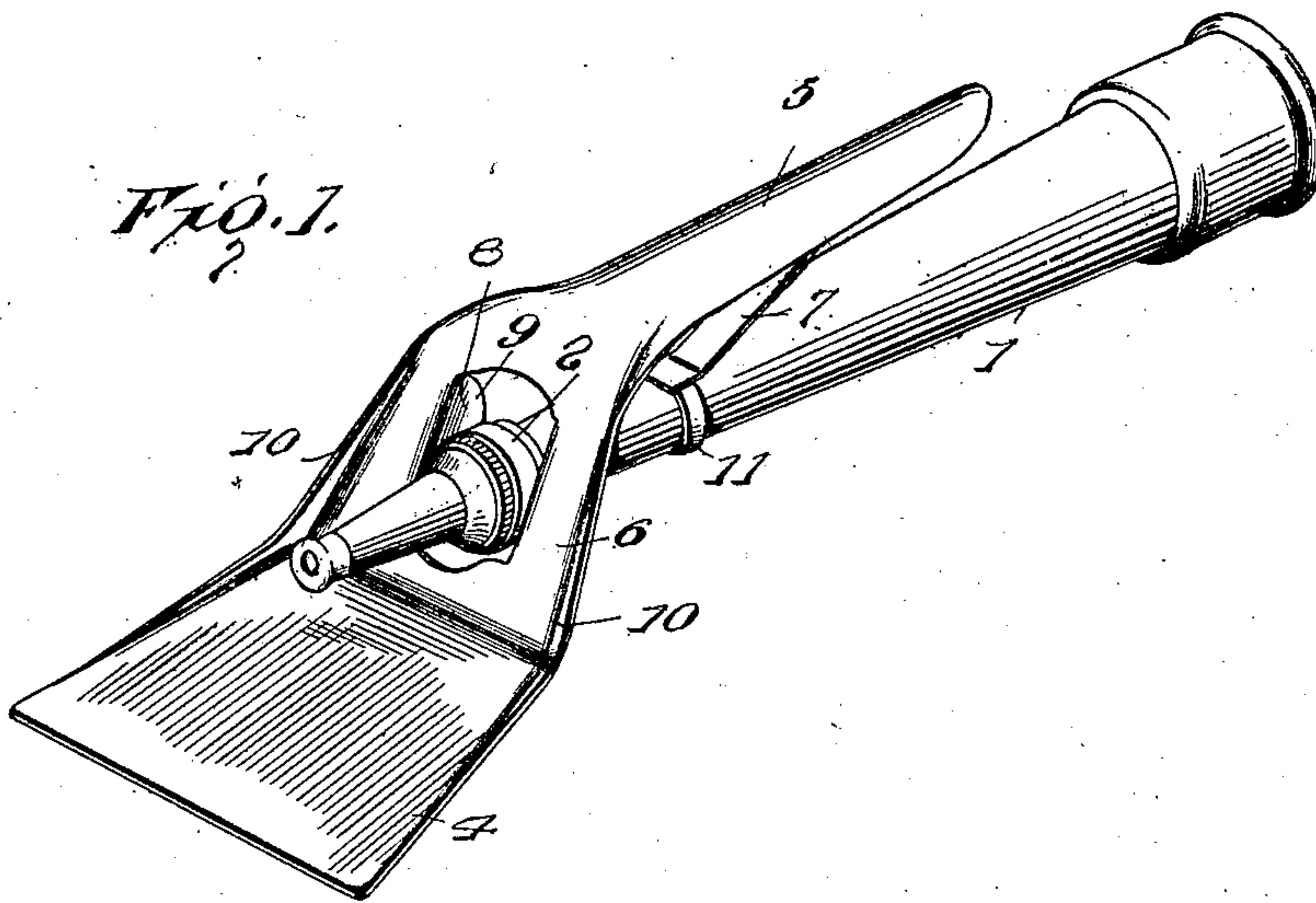


No. 855.444.

PATENTED JUNE 4, 1907.

J. A. CARLSON.  
SPRAYER FOR HOSE NOZZLES.  
APPLICATION FILED SEPT. 15, 1906.



Witnesses

J. M. M.  
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Attorney



# UNITED STATES PATENT OFFICE.

JOHN ALFRED CARLSON, OF CHICAGO, ILLINOIS.

## SPRAYER FOR HOSE-NOZZLES.

No. 855,444.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed September 15, 1906. Serial No. 334,760.

*To all whom it may concern:*

Be it known that I, JOHN ALFRED CARLSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sprayers for Hose-  
Nozzles, of which the following is a specification.

The purpose of the invention is to devise a novel form of attachment for hose nozzles which may be readily fitted to the nozzle and is at all times under control of the operator so that water may be permitted to flow either in a solid stream or be sprayed according as may be required, the sprayer attachment being preferably constructed of sheet material such as metal and provided with means admitting of its ready adjustment to the hose nozzle or removal therefrom as may be desired.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which:

Figure 1 is a perspective view of a sprayer embodying the invention showing the same fitted to a hose nozzle; Fig. 2 is a side view of the parts shown in Fig. 1, a portion of the sprayer being broken away and the dotted lines indicating the sprayer when moved to bring the blade or deflector in the path of the stream to effect spreading or spraying of the latter; Fig. 3 is a transverse section on the line  $x-x$  of Fig. 2, the dotted lines showing the position of the end portions of the retaining band preliminary to bending the same to encircle the nozzle; and, Fig. 4 is a perspective view of the sprayer detached from the nozzle.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The nozzle 1 is of ordinary construction and outline such as commonly provided for garden hose, the tip being detachable in the

accustomed manner. A contracted portion is provided a short distance from the outer end of the nozzle and receives the retaining band 2 by means of which the sprayer attachment is held in place when fitted to the nozzle. The retaining band 2 may be of any formation and the preferred construction consists of a strip of metal adapted to be bent into circular form so as to embrace the contracted portion of the nozzle. Trunnions 3 project from opposite sides of the retaining band at diametrically opposite points and pivotally support the sprayer, said trunnions being firmly connected with the band in any substantial manner. The retaining band is doubled upon itself into an approximately U-form, as indicated by the full and dotted lines in Fig. 3 and when fitted to the nozzle, the end portions shown by dotted lines in Fig. 3 are bent so as to encircle the nozzle as illustrated by the full lines in Fig. 3, thereby retaining the sprayer in position upon the nozzle. This form of retaining band enables the attachment to be readily fitted to different sizes of hose nozzles as well as providing for quick application of the attachment thereto or ready removal therefrom.

In general appearance, the sprayer approximates the form of a shovel or scoop and consists of a blade or deflector 4, a handle 5 and an intermediate inclined portion 6. The blade or deflector 4 is flat and outwardly flared. The handle 5 is straight and transversely curved, being hollow upon the side facing the nozzle so as to conform thereto and snugly house the spring 7 by means of which the sprayer is normally held out of the path of the solid stream issuing from the hose nozzle when the water is turned on. The inclined portion 6 is formed with an opening 8 through which the end of the hose nozzle projects. Wings 9 are provided at opposite sides of the opening 8 and extend rearwardly from the part 6 of which they form an integral portion, the same being formed by partly cutting the blank from which the sprayer is constructed and bending the partly separated portions so as to form the wings 9, the latter having openings in transverse alinement to receive the trunnions 3. The outer edges of the sprayer are upturned or flanged, as indicated at 10 to stiffen and strengthen the same, and these flanges 10, in connection with the wings 9 serve to stiffen and brace the intermediate



portion 6, thereby enabling the sprayer to be constructed of comparatively thin sheet metal.

The spring 7 is flat and is made fast at one end to the handle 5 and is provided at its opposite end with a band or ring 11 which is split and which is a trifle larger than the part of the nozzle encircled thereby so as to have a limited movement thereon to admit of oscillating the sprayer to project the blade or deflector into or out of the path of the stream issuing from the nozzle. By having the band or ring 11 split, it may be bent either to encircle or clear the nozzle, according as it may be required to place the sprayer attachment in position or remove it from the nozzle. The band or ring constitutes a stop to limit the movement of the rear end of the handle 5 when pressed away from the nozzle by means of the spring 7, thereby preventing flopping about of the sprayer and insuring the same being held in a position for ready operation and yet not interfering with the ordinary use of the hose nozzle when it may be required to throw a solid stream.

Having thus described the invention, what is claimed as new is:

1. A sprayer attachment for hose nozzles comprising a blade a handle, and an intermediate portion having an opening to receive the end of the nozzle, a retaining band

having pivotal connection with said inclined portion of the sprayer and adapted to support the attachment when in position upon the nozzle, a flat spring secured at one end to the handle of the attachment and a retaining band at the opposite end of said spring loosely encircling the nozzle and having a limited movement thereon, and forming a stop to hold the sprayer in a given position.

2. The herein described sprayer attachment for hose nozzles, the same consisting of a blade, a handle, an inclined portion between the blade and handle and formed with an opening and having integral wings at the sides of the opening, the outer edges of the blade and inclined portion being upwardly flanged, a split retaining band provided with trunnions passing through openings in the aforesaid wings and a spring secured at one end to the handle and having a split retaining band at its opposite end to encircle the nozzle and to hold the attachment in a given position when in place upon the hose nozzle.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN ALFRED CARLSON. [L.s.]

Witnesses:

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