

(No Model.)

M. O. KUPFERLE..

HOSE NOZZLE.

No. 381,500.

Patented Apr. 17, 1888.

Fig. I

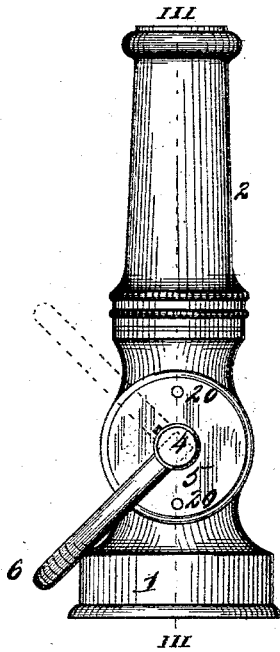


Fig. II

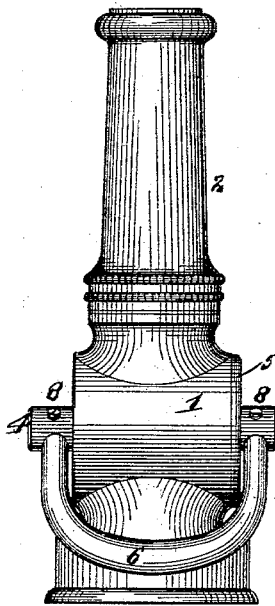


Fig. III

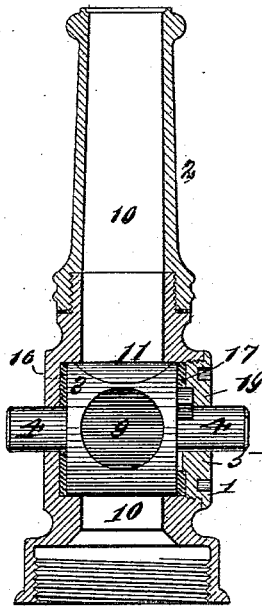


Fig. IV

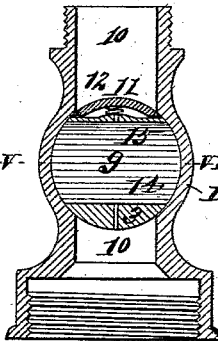


Fig. V

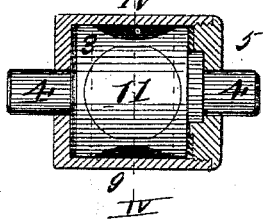


Fig. VI

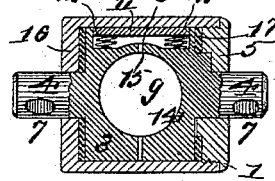


Fig. VII

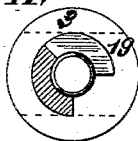
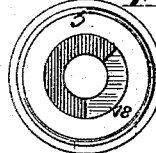


Fig. VIII



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UNITED STATES PATENT OFFICE.

MARCELLUS O. KUPFERLE, OF ST. LOUIS, MISSOURI.

HOSE-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 381,500, dated April 17, 1888.

Application filed June 11, 1887. Serial No. 241,010. (No model.)

To all whom it may concern:

Be it known that I, MARCELLUS O. KUPFERLE, of the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Hose-Nozzles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a side view of my improved nozzle. Fig. II is a like view, the line of sight in this view being at right angles to that in Fig. I. Fig. III is a longitudinal section taken on line III III, Fig. I, showing the plug in elevation. Fig. IV is a transverse section taken on line IV IV, Fig. V. Figs. V and VI are cross sections taken on line V VI, Fig. IV, the former showing the plug in elevation and the latter showing the plug in section. Fig. VII is an end view of the plug. Fig. VIII is an inside view of the screw-threaded cap.

My invention relates to certain improvements in hose-nozzles; and it consists in features of novelty, hereinafter fully described, and pointed out in the claims.

Referring to the drawings, 1 represents the body or casing of the nozzle, which forms the housing of the plug and valve, and 2 the point which is screwed onto the body.

3 is the plug, which fits tightly in the casing, and 4 are spindles on the plug and which extend through the casing and a screw-cap, 5.

6 is a U-shaped handle, which fits in holes 7 of the spindle on each side of the nozzle, and which is held in place by screws 8. The plug has an opening, 9, through its center which corresponds with the opening 10 in the casing. On one side of the plug is a valve, 11, slightly larger than the opening 10 in the casing, and which fits or seats tight up against the casing and is held in this position by springs 12, which are set in a recess, 13, of the plug, and which, as the parts become worn, will expand, and thus insure a tight connection at all times.

14 and 15 are small openings through the plug, which are at right angles to the opening 9. The water being forced into the opening 15 and coming against the under or concave side of the valve 11 will serve to assist the springs 12 to hold the valve out against its

seat. These openings also serve the purpose of a drain when the nozzle is closed, and thus prevent freezing and bursting in cold weather.

16 and 17 are washers, which are placed between the ends of the plug and casing to make the plug fit snugly.

The screw-cap 5 has a shoulder, 18, which comes in contact with a shoulder, 19, on the end of the plug as the cap is being screwed into position, so, as will readily be seen, the plug will have to be turned with the cap in order to get the cap screwed up tight. Then when the handle 6 is attached it will be impossible for the cap to become loosened or removed without first removing the handle, as to take the cap off the plug would have to be turned a complete revolution or a number of revolutions, and this cannot be done while the handle is on. The shoulders are not so large but what they will permit the plug to be operated by the handle without unscrewing the cap. 20 are holes on the outside of the cap, in which a tool may be inserted to unscrew it or for screwing it into position.

By taking the cap off the plug can be removed and replaced. By turning the plug to bring the hole 9 in line with the opening 10 the water is allowed to pass through, and by turning the plug back the water is cut off, the valve 11 fitting over the opening 10 on one side of the plug.

I claim as my invention—

1. In a hose nozzle, in combination with the body 10, the plug 3, seated therein, having the way or opening 9, spindles 4, and shoulder 19, cap 5, having shoulder 18, and handle 6, the whole being so constructed and combined that the handle will retain the plug from making a complete revolution, and the plug will in turn retain the cap.

2. In a hose-nozzle, the combination of body 10, plug 3, seated therein, having way or opening 9, spindles 4, and shoulder 9, cap 5, having shoulder 18, and U-shaped handle 6, adapted to operate in connection with said shouldered plug and cap, substantially as set forth.

MARCELLUS O. KUPFERLE.

In presence of—

GEO. H. KNIGHT,
JAS. E. KNIGHT.