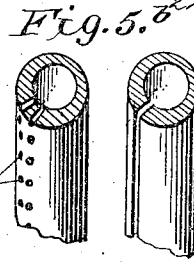
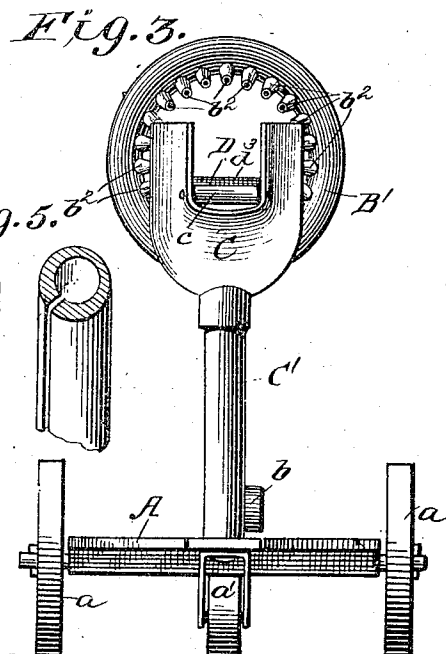
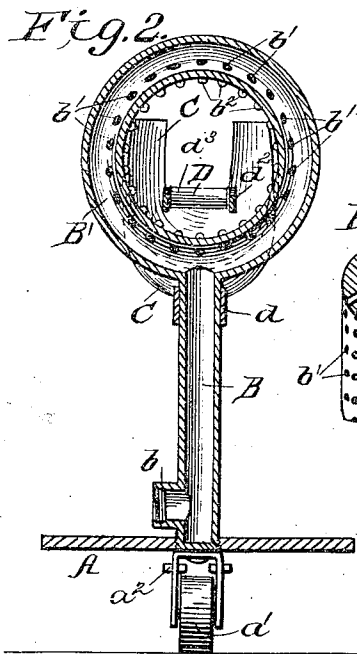
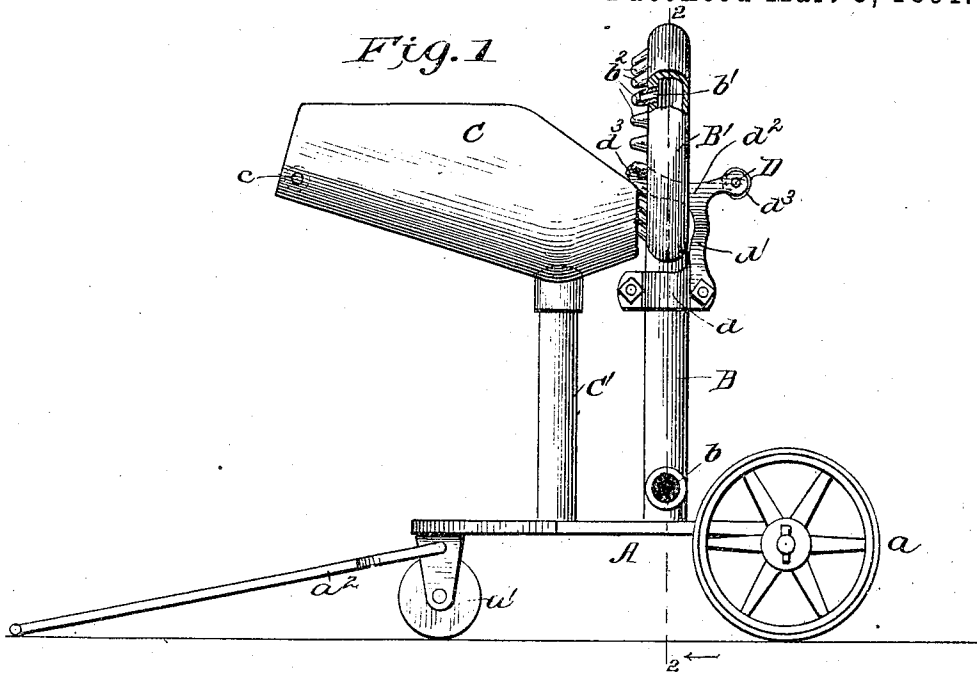


(No Model.)

A. B. COSBY.
HOSE WASHING MACHINE.

No. 447,634.

Patented Mar. 3, 1891.



WITNESSES:
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ANDERSON B. COSBY, OF RICHMOND, VIRGINIA

HOSE-WASHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 447,634, dated March 3, 1891.

Application filed July 3, 1890. Serial No. 357,698. (No model.)

To all whom it may concern:

Be it known that I, ANDERSON B. COSBY, of Richmond, in the county of Henrico and State of Virginia, have invented a new and useful Improvement in Hose-Washing Machines, of which the following is a specification.

My invention relates to a portable machine for cleaning fire-engine and garden hose, the object being to more thoroughly cleanse the same than can be done by the usual method of spreading the hose out and washing and brushing the same. The operation is also performed much more rapidly and easily when my machine is employed.

With this object in view my invention consists of a portable frame or carriage, an annular spraying-pipe through which the hose is passed, a supply-pipe connected with the frame and supporting said pipe, a trough in which the hose is washed as it passes through, being supported by a discharge-pipe.

My invention consists, further, in certain details of construction and combination of parts, such as shown in the accompanying drawings, and more fully explained herein-after.

In the drawings, Figure 1 is a side view, certain parts being broken away. Fig. 2 is a transverse vertical section on the line 2 2; Fig. 1. Fig. 3 is a front view of my machine. Fig. 4 is a detail view of a section of the ring, and Fig. 5 shows modified forms of the same.

In the embodiment of my invention I employ a main frame or carriage A, which is supported upon the traction-wheels *a* and the caster-wheel *a'*. A draft-pole *a''* is pivoted to the caster-housing, whereby the carriage is transported from place to place, as desired.

A main supply-pipe B is secured to the frame near its central part, said pipe being closed at the bottom and provided at its side with a coupling-joint *b*, to which is coupled the hose or other water-conductor which furnishes the water-supply. An annular pipe B' is secured to the upper end of the supply-pipe, and on its forward face is provided with a series of perforations *b'*, through which the water is forced in the shape of a ring.

The hose is passed through the annular pipe B', and in so passing the water will strike upon all sides and thoroughly wash the hose.

The hose as it passes through the annular pipe is supported by the anti-friction hose-supporter D, said supporter consisting of the lower horizontal or clamping-arms *d*, which are clamped around the supply-pipe near the spray-pipe B', the vertical arms *d'*, extending upward from the clamping-arms, and the upper horizontal arms *d''*, between the ends of which the anti-friction rollers *d'''* are journaled, the said arms being so constructed that the rollers rest upon opposite sides of the annular pipe, as shown.

A water-trough C is arranged directly forward of the annular pipe, said trough being adapted to catch the water sprayed upon the hose and aid in cleansing the hose passing through the water in the trough. The water in the trough is carried off by means of the discharge-pipe C', which also serves as a support for the said trough. An anti-friction roller *c* is journaled in the forward end of the trough, over which the hose passes when being drawn through the trough. The openings in the annular pipe may be provided with the forwardly-converging nozzles *b''*, if desired, but the most convenient method would be to thicken the said pipe at its forward side and drill the holes with the desired inclination. It is obvious that any desired number of hose may be passed through the annular pipe at one time. It will of course be understood that the hose is first passed through the trough, which softens the dirt upon it, and the spray from the annular pipe entirely removes all dirt and grit. If desired, the pipe may have more than one row of perforations *b'*, said perforations being arranged at different angles. If desired, the forward side of the annular pipe may be split, in order to form a solid sheet of water.

Having thus described my invention, what I claim is—

1. In a portable hose-washing machine, the combination, with a portable frame or carriage, of a supply-pipe arranged thereon and a vertical annular pipe supported upon the supply-pipe and in communication therewith, said pipe having a series of perforations, substantially as and for the purpose described.

2. In a hose-washing machine, the combination of an annular pipe having a series of apertures formed in one side of the same, said

apertures being arranged obliquely and converging to a common central point without the plane of the annular ring, substantially as described.

5 •3. In a hose-washing machine, the combination of an annular ring which is made thicker on one side, said thickened side being provided with a series of apertures, said apertures being bored obliquely and converging
10 toward a common central point without the plane of the annular ring, substantially as shown and described.

4. In a hose-washing machine, the combination, with a frame, of a water-supply pipe, a
15 washing-pipe over which the hose passes, supported upon the supply-pipe, a trough, and discharge-pipe for supporting the same, substantially as shown and described.

5. In a hose-washing machine, the combination, with a supply-pipe, of an annular pipe
20 supported thereon and a hose-supporter secured to the supply-pipe and adapted to support the hose as it passes through the said annular pipe, substantially as shown and de-
25 scribed.

6. In a hose-washing machine, the combination, with a washer, of a trough and a discharge-pipe leading from said trough, said pipe being the sole support for said trough, substantially as shown and described. 30

7. In a hose-washing machine, the combination, with a water-supply pipe, of an annular pipe supported thereon and an anti-friction hose-supporter constructed as described, and secured to the main supply-pipe, and having
35 the supporting anti-friction rollers arranged upon opposite sides of the annular pipe, substantially as shown and described.

8. A machine for washing hose, comprising a portable carriage, a vertical supply-pipe se-
40 cured thereon, a vertical annular pipe mounted upon the supply-pipe after supporter, anti-friction hose-supporter, water-trough, and discharge-pipe supporting the water-trough, all arranged and adapted to operate substantially
45 as shown and described.

ANDERSON B. COSBY.

Witnesses:

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