(No Model.) 2 Sheets—Sheet 1.

G. VILLENEUVE.

MACHINE FOR WASHING FIRE HOSE.

No. 391,393. Patented Oct. 16, 1888.

Fig. 1.

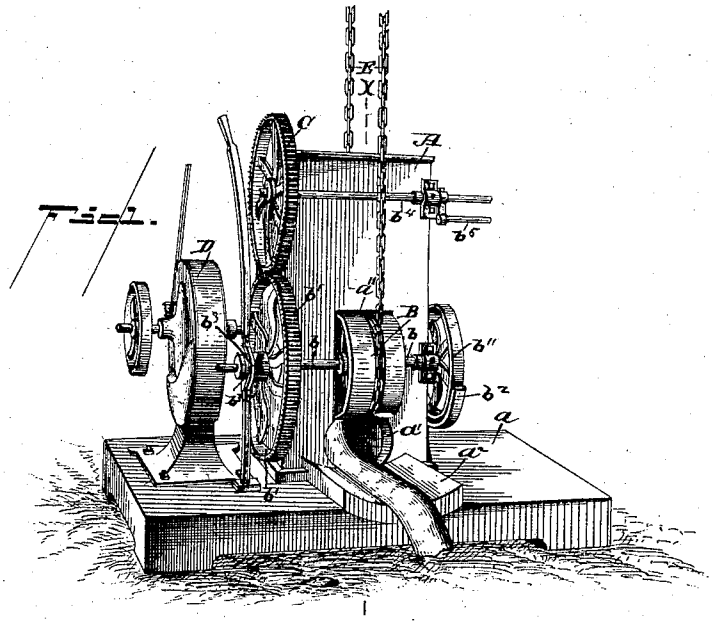
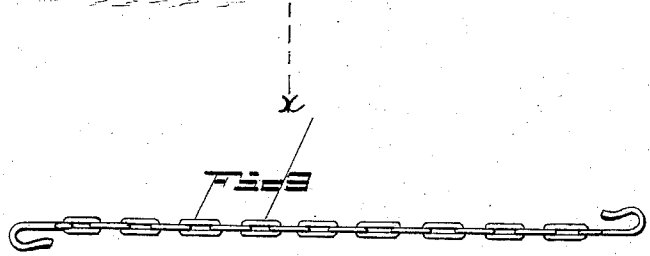


Fig. 3.



WITNESSES.

Edwin. L. Yewell.

John Montgomery.

George Villeneuve
INVENTOR.

By Patrick O'Farrell
Attorney.

N. PETERS. Photo-Lithographer, Washington, D. C.

(No Model.) 2 Sheets—Sheet 2.

G. VILLENEUVE.

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Fig. 2.

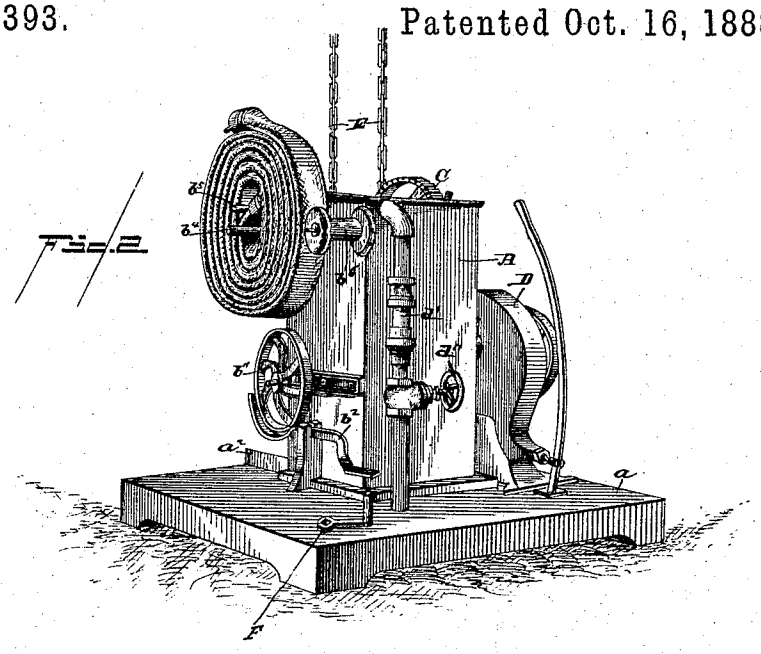
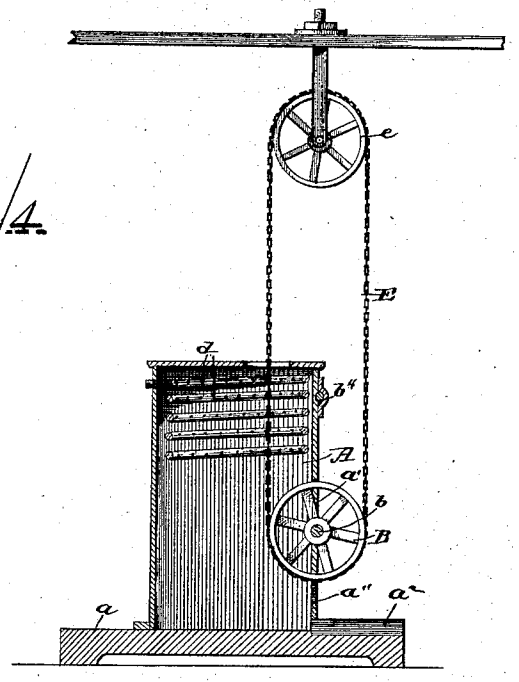


Fig. 4.



WITNESSES,
Edwin L. Yewell.
John Montgomery.

George Villeneuve,
INVENTOR,
By Patrick & Farrell
Attorney.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

GEORGE VILLENEUVE, OF PITTSFIELD, MASSACHUSETTS.

MACHINE FOR WASHING FIRE-HOSE.

SPECIFICATION forming part of Letters Patent No. 391,393, dated October 16, 1888.

Application filed November 19, 1887. Serial No. 255,594. (No model.)

To all whom it may concern:

Be it known that I, GEORGE VILLENEUVE, a citizen of the United States of America, residing at Pittsfield, in the county of Berkshire and State of Massachusetts, have invented certain new and useful Improvements in Machines for Washing Fire-Hose, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in machines for washing and cleansing fire-hose, whereby the hose is freed from all dirt or other substance and is thoroughly cleansed in a short space of time.

To these ends the invention consists in the detail construction, combination, and arrangement of the parts, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figures 1 and 2 are views in perspective of my invention. Fig. 3 is a detail view, and Fig. 4 is a vertical sectional view on the line *x x*, Fig. 1.

Referring to the drawings, A represents a tank or receptacle secured at its lower end to a suitable stand or platform, *a*, as shown, said tank or receptacle being provided in one end wall with a lower approximately-circular opening, *a'*, and an upper rectangular opening, *a''*, which extends from about the center of said end wall to the lower end thereof. At the lower portion of this end of the tank or receptacle is secured or formed therewith an inclined trough, a^2.

B is a grooved wheel or pulley working in the rectangular opening *a''* and rigidly secured upon a horizontal shaft, *b*, which at one end is provided with a large gear-wheel, *b'*, and at the other end with a brake-wheel, *b''*, with which is designed to engage the curved arm of a brake, b^2, fulcrumed upon a short post adjoining the tank or receptacle. With the hub of the large gear-wheel *b'* is connected or designed to engage a suitable clutch, b^3, for moving said gear-wheel on its shaft.

C is a second gear-wheel secured upon one end of a second horizontal shaft, b^4, and designed to engage with said large gear-wheel *b'*, and upon the other projecting end of said shaft is rigidly secured one end of a right-angular arm, b^5, the main portion of which is at right angles to the said shaft. This arrangement constitutes a reel employed in connection with my invention for winding the hose. A short distance in rear of said reel is secured upon a short shaft a grooved pulley, b^6, over which the hose is passed in being wound upon said reel.

D is a motor of any suitable construction, also secured to the stand or platform *a*, and has its driving-shaft gearing with the gear-wheel *b'* for driving the same.

Within the tank or receptacle A is disposed a long coil of apertured pipe, *d*, secured by suitable means within said tank or receptacle. The upper end of said coil of pipe is passed through an aperture in the upper end of the rear end wall of the tank or receptacle and has connected thereto one end of a water-supply pipe, *d*, provided with a suitable valve or cock, *d''*, to regulate the inflow of water.

A long endless chain belt, E, is passed around the grooved wheel or pulley B up through the coil of apertured pipe and over a second grooved pulley, *e*, suspended from the ceiling, as shown.

In practice when it is desired to wash or cleanse a section of hose the same is effected by connecting to the end thereof one end of a chain about two feet long, the other end of which is hooked or otherwise connected to the endless chain belt E, and upon causing the motor to start motion will be transmitted through the gear-wheel *b'* to the shaft *b* and pulley B, thus causing the movement of the endless chain belt, which will carry the hose-section with it up through the coil or apertured pipe in the tank or receptacle, and the water previously turned on will be ejected through the apertures of said coil, thus effectively cleansing the hose in its upward passage therethrough, which water will run out from the tank or receptacle on the inclined trough *a'*. The hose-section will be thus carried up over the pulley *e* and be brought down with the endless chain belt, when the chain secured to its end can be removed, and the remaining portion of the hose will be likewise cleansed. After this is accomplished the hose is wound or reeled by passing one end over the grooved pulley b^6 and securing it to the right-angular arm b^5 of the reel, which in its revolution will

wind said hose, as stated which can be tied before being removed. By means of the brake-wheel the movement of the parts is regulated, as may be desired.

If desired, the motor can be dispensed with and a crank, F, employed for imparting motion to the mechanism, said crank being secured on the end of the shaft *b*.

By means of my invention the thorough cleansing or washing of fire-hose is readily and thoroughly effected in a short space of time.

I claim as my invention—

1. The combination, with the tank having the apertured end wall, of the grooved wheel or pulley B, the coil of apertured pipe, the endless chain belt, and the grooved pulley *e*, substantially as shown and described.

2. The combination, with the tank, of the grooved wheel or pulley, the gear-wheel secured upon its shaft, the apertured pipe, the endless chain belt, the grooved pulley *e*, and the motor, substantially as shown and described.

3. The tank or receptacle having the opening in its end wall, the inclined trough projecting from said tank or receptacle, the apertured pipe, and the water-supply pipe, substantially as shown and described.

4. The combination, with the tank or receptacle, of the grooved pulley, its shaft, the large gear-wheel, the motor gearing therewith, the endless chain belt, and the upper grooved pulley, substantially as shown and described.

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

GEORGE VILLENEUVE.

Witnesses:
JOHN C. CROSBY,
GEORGE A. BAGG.