

(No Model.)

J. E. TABER.
HOSE WASHER.

No. 491,821.

Patented Feb. 14, 1893.

Fig. 1.

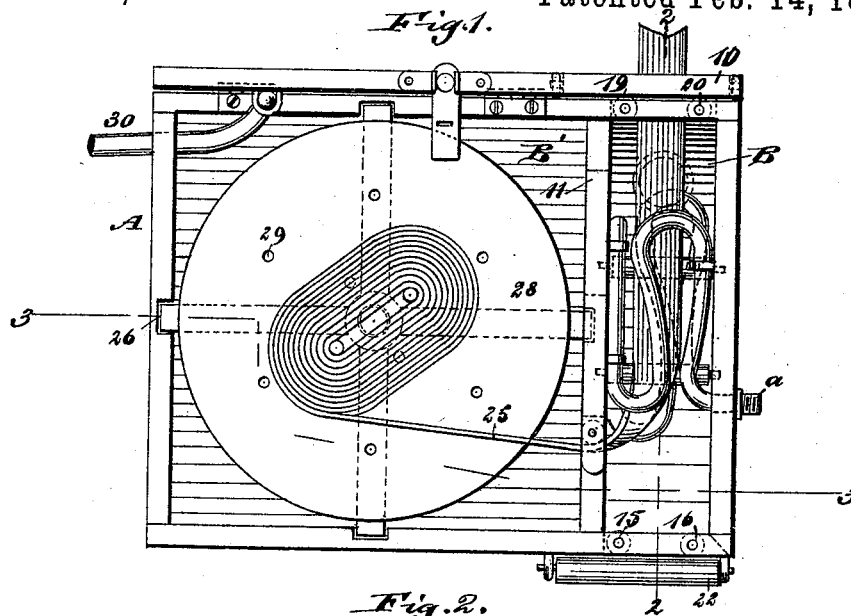


Fig. 2.

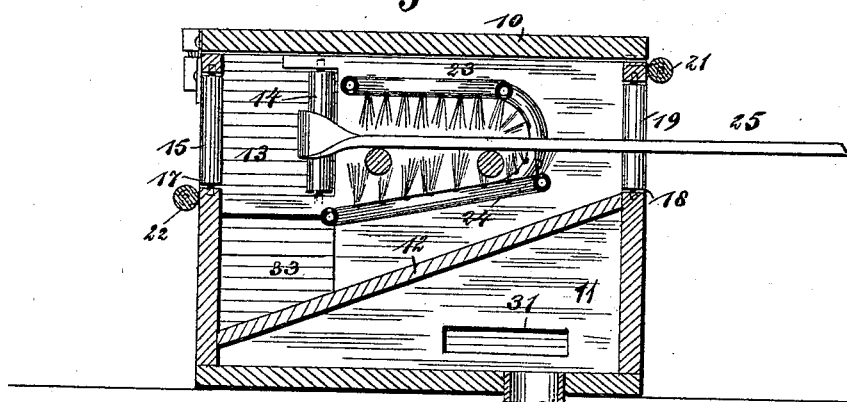
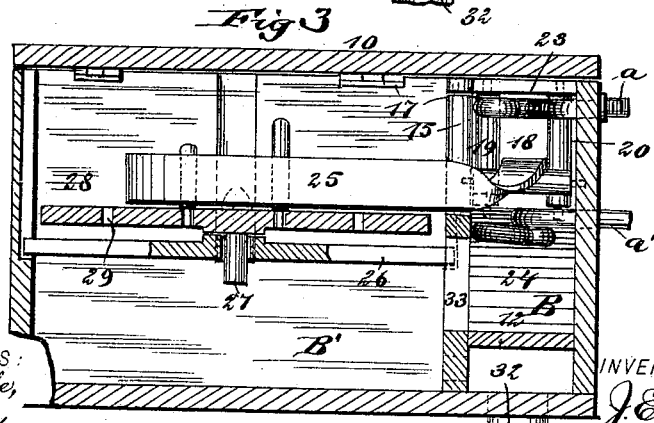


Fig. 3.



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JOHN E. TABER, OF FALL RIVER, MASSACHUSETTS.

HOSE-WASHER.

SPECIFICATION forming part of Letters Patent No. 491,821, dated February 14, 1893.

Application filed June 28, 1892. Serial No. 438,305. (No model.)

To all whom it may concern:

Be it known that I, JOHN EDWIN TABER, of Fall River, in the county of Bristol and State of Massachusetts, have invented a new and
5 Improved Device for Washing Hose, of which the following is a full, clear, and exact description.

My invention relates to a device for use in washing hose, and is especially adapted for
10 use in a fire department for washing hose after it has been used at a fire, or otherwise, and cleansing the hose from all adhering foreign matter.

Another object of the invention is to provide a hose-washing device which will be simple, durable, compact and economic, and which may be used in any engine house without occupying much room, and whereby the
15 hose may be placed in the device and drawn therefrom in a thoroughly cleansed state.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

25 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the device, the
30 cover thereof being open; Fig. 2 is a transverse section taken through the tunnel of the device practically on the line 2—2 of Fig. 1; and Fig. 3 is a longitudinal section through the device, taken essentially on the line 3—3
35 of Fig. 1.

In carrying out the invention a receptacle A, is employed, which may be of any desired shape in general contour. Preferably however it is ordinarily made rectangular, and is
40 provided with a cover 10, capable of being locked upon the receptacle when necessary. The cover is ordinarily hinged to the receptacle, and the receptacle is divided into two compartments by a partition 11. The compartments may be designated as the tunnel
45 compartment B and the basin compartment B', which latter compartment may be properly designated as a catch basin, as it is adapted to receive and retain the dirt that is washed
50 from the hose, in order that clear water only may pass off into the sewer or offtake pipe connected with the receptacle. The partition

11, is located between the center and one end of the device, whereby the basin compartment B', is much larger than the tunnel compartment B. The tunnel compartment is provided with an inclined bottom 12, as shown in Fig. 2, extending from a point at or near its center at one end, and inclining downward to a point near the bottom at the opposite end. 60 The partition 11, extends from the back to the front of the receptacle, and at its top front portion an opening 13, is produced therein, whereby communication is established between the upper portion of the basin compartment and the tunnel compartment. Near the rear wall of this opening a vertical friction roller 14, is journaled, and two friction rollers 15 and 16, are journaled vertically in the opening 17 which is made in the front of the receptacle near its top, said opening leading into the tunnel compartment; while a like horizontally aligning opening 18, is produced in the rear wall of the receptacle, and in this opening two friction rollers 19 and 20, are
75 journaled, the rollers also occupying vertical positions.

Upon the back of the receptacle at the top of the rear opening 18, a horizontally-located roller 21, is journaled, and a like roller 22, is
80 located at the front of the receptacle near the lower wall of the front opening 17.

In the tunnel compartment above its inclined floor 12, two horizontally-located coils of pipe 23 and 24, are located. These coils
85 are ordinarily made from one pipe, that is, the coils are in communication, and a space is left between them sufficient for the hose 25 to pass. One end of the coil extends outward from the upper portion of the receptacle, as shown at *a* in Figs. 1 and 3, and the other end of the coil extends from the compartment from the same side or end, but lower down, as shown at *a'* in Fig. 3. These coils are perforated, and their connecting pipes are perforated in such a manner that when the water is passed through them a spray will be directed in direction of the center of the space
95 intervening the coils, as shown in Fig. 2.

In the basin compartment B' a spider 26, or
100 the equivalent thereof is located, the spider being removably placed in the compartment, and it is located about mid-way between the top and the bottom thereof, and in this spider

a socket is formed to receive the spindle 27, of a turn-table 28, and this turn-table is provided with a number of apertures 29, sundry of which are arranged near the center and others near the periphery. The turn-table is adapted to receive the coil of hose 25, and when the pins, as shown in Figs. 1 and 3, are placed at each side of the center of the turn-table, they hold the coil of hose through the medium of its coupling in place. The outer series of apertures are adapted to permit the water and dirt to escape into the catch basin, while the pins near the center of the table prevent the possibility of the last coil of hose kinking.

The hose is passed from the table through the opening 13 in the partition 11 in engagement with the rollers 14 and 15, and then flatwise between the coils 23 and 24, and out through the rear opening 18 between the friction rollers 19 and 20 in said opening. The hose is generally taken out through the rear opening after it has been washed, and it may be carried upward to an overhead support, which event it will engage with the rear horizontal friction roller 21. The front opening is provided in order that the hose, when it is not coiled, may be passed through it directly through the tunnel; but I desire to be distinctly understood that the arrangement of the coils may be changed or varied without departing from the spirit of the invention, and that any substitute for the turn-table may be employed, as, for instance, a reel of any description may be placed in the basin compartment, and the hose run off therefrom.

In order to facilitate the washing of the hose, a perforated water pipe 30 of a flexible nature may be passed through the upper rear portion of the receptacle, and be led along the under side of the cover to which it may be attached in any suitable or approved manner, the pipe being placed upon the cover in such manner that when the cover is closed the pipe, through apertures produced therein, will spray water upon the coiled hose upon the turn-table. There is an opening 31, which communicates with the space beneath the bottom of the tunnel and the basin compartment B'. This opening is located some little distance from the bottom of the floor of the receptacle A, and is produced in the partition 11; and adjacent to this opening, beneath the floor of the tunnel the sewer or offtake pipe 32, is entered. By this means it will be observed, in operation, that the water together with the material that is washed from the hose, will run down the inclined floor 12 of the tunnel, and will pass from the tunnel through an opening 33 made in the partition 11 at the deeper end of the tunnel, as shown in Fig. 2, into the basin compartment B'; and as the water can only escape through the opening 31 in the basin compartment B', the sand, dirt, or other material washed from the hose will settle in the basin compartment, and

pure water only will pass off through the opening 31 into the sewer or offtake pipe 32, and thus prevent clogging the latter.

This device is not only simple, durable and economic, but it may be utilized in any engine house in an expeditious manner and with but little trouble; furthermore, the device will occupy but little space and will require but little assistance in its use.

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

1. The combination with a casing formed into two communicating compartments, of a perforated piping in one compartment, and a rotary table or reel, for the soiled hose, journaled removably in the other compartment and from which the hose may be unwound and passed through the connecting opening into the washing compartment, substantially as set forth.

2. The combination with a casing formed into two communicating compartments, of a washing piping in one compartment, and a rotary table or reel in other compartment having apertures and removable pins, substantially as set forth.

3. A hose washer comprising a casing having a hinged lid closing its top, and divided into two communicating compartments both closed by said lid, a washing-piping in one compartment and a horizontally turning reel in the other compartment, substantially as set forth.

4. In a device for washing hose, the combination, with a receptacle provided with a partition dividing it into two compartments, a basin and a tunnel compartment, the tunnel compartment being provided with an inclined floor and the partition with openings at the lower portion of the floor, one above the other, communicating with the basin compartment, the upper opening being provided with a friction roller, the partition beneath the floor of the tunnel compartment being provided with an outlet opening located some distance from the floor of the receptacle, and an offtake pipe leading into the receptacle near the outlet, of a reeling device located in the basin compartment, and coils of perforated pipe spaced from each other and located in the tunnel compartment, which tunnel compartment is provided with outlets through which the hose after being washed is passed, as and for the purpose specified.

5. In a device for washing hose, the combination, with a receptacle provided with a partition dividing it into two compartments, a basin and a tunnel compartment, the tunnel compartment being provided with an inclined floor and the partition with openings at the lower portion of the floor, one above the other, communicating with the basin compartment, the upper opening being provided with a friction roller, the partition beneath the floor of the tunnel compartment being provided with an outlet opening located some distance from

the floor of the receptacle, and an offtake
leading into the receptacle near the outlet, of
a reeling device located in the basin com-
partment, coils of perforated pipe spaced from
5 each other and located in the tunnel compart-
ment, which tunnel compartment is provided
with outlets through which the hose after be-
ing washed is passed, a cover adapted to close

the receptacle, and a perforated pipe carried
by the cover and so located as to pass over 10
the reeling device to direct a spray thereon,
as and for the purpose specified.

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Witnesses:

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