

M. F. GALE.
CARRIAGE WASHING APPARATUS.

Patented July 23, 1895.

Fig:1.

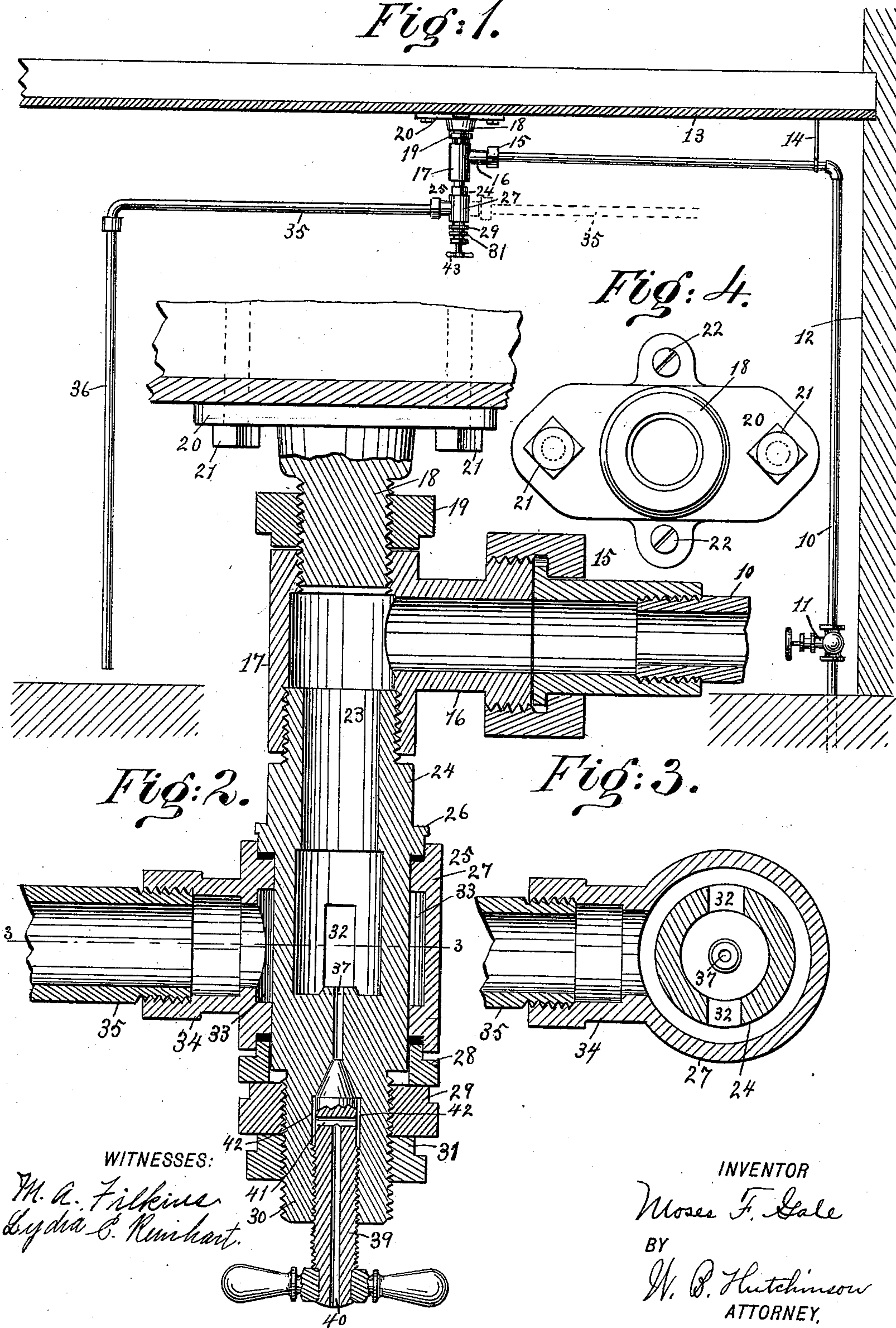


Fig: 4.

Fig: 3.

WITNESSES:

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MOSES F. GALE, OF BROOKLYN, NEW YORK.

CARRIAGE-WASHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 543,008, dated July 23, 1895.

Application filed February 16, 1895. Serial No. 538,733. (No model.)

To all whom it may concern:

Be it known that I, MOSES F. GALE, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Carriage-Washing Apparatus, of which the following is a full, clear, and exact description.

My invention relates to improvements in carriage-washing devices; and the object of my invention is to produce a simple and inexpensive apparatus which may be connected to any ordinary water-supply pipe and supported from any suitable overhead support, and when thus arranged is adapted to deliver water to any part of the carriage, or, rather, to deliver it on either side of the carriage, to the end that the carriage may be very quickly and nicely washed.

A further object of my invention is to produce a very simple and effective coupling, which may be suspended from the ceiling or support, which is adapted to connect with the discharge-pipe, so as to permit the latter to rotate around a carriage and deliver water to any desired point, and which has a very convenient drain-cock adapted to let off all the surplus water in the coupling, so that there is no danger of the water in the coupling freezing and so bursting the coupling.

Still another object of my invention is to construct and arrange the coupling and its support in such a manner that the latter may be very easily and firmly fastened to a ceiling or other support.

To these ends my invention consists of certain features of construction and combination of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, in which similar figures of reference refer to corresponding parts throughout the several views.

Figure 1 is a side elevation of my improved apparatus. Fig. 2 is an enlarged detail sectional view of the main coupling and its hanger or support. Fig. 3 is a detail sectional plan on the line 3 3, Fig. 2. Fig. 4 is an inverted plan view of the hanger which carries the main coupling and the pipes therewith connected.

I have shown my invention in connection with an ordinary water-supply pipe 10, which

is controlled by a valve 11, and extends vertically along the wall 12 and thence horizontally along the ceiling 13, being supported in part by an ordinary hanger 14; but it will be understood that the supply-pipe may be arranged in any convenient manner, as it forms no part of my invention. The pipe 10 connects by means of a union 15 with the externally-threaded stem 16 of a T 17, the head of which is vertically arranged, and one end of the T is screwed to the threaded hanger 18, which has a face-plate 20, adapted to be fastened by lags 21 and screws 22, or other equivalent fastenings, to the ceiling or support 13. The T 17 is held in position on the hanger 18 by means of an ordinary jam-nut 19. The reduced end 23 of the barrel 24 of the coupling 25 is screwed into the lower end of the T 17, although it may be connected therewith in any suitable manner. The barrel 24 is provided near its upper end with a rigid collar 26, against which abuts the upper end of the coupling-sleeve 27, between which and the collar 26 a suitable packing is inserted. The lower end of the sleeve 27 abuts with a packing-ring 28, which is held in place by a nut 29 on the reduced lower end 30 of the barrel 24, and the nut 29 is prevented from being displaced by a check-nut 31. The sleeve 27 is thus held to the barrel 24 so as to turn freely on the barrel, being prevented from vertical displacement by the collar 26 and packing-ring 28.

The barrel 24 is hollow at its upper end and in the center, at which latter point it is provided with ports 32, opening into an annular chamber 33 on the inner side of the sleeve 27, so that when water is flowing into the valve it passes out freely through the ports and into the chamber 33 of the coupling-sleeve 27.

The coupling-sleeve 27 is provided on one side with a nipple 34, which opens from the chamber 33 and which connects with the discharge-pipe 35, which extends outward horizontally and has a vertical pipe 36 connected therewith; but these pipes may be given any desired shape, and I shall refer to them jointly in the claim as a "discharge-pipe."

The barrel 24 has a small longitudinal bore 37, leading from the bottom of its inner chamber, and this bore can be closed by the drain-cock 39, which screws into the lower end of

the barrel 24 and has a tapering upper end, as shown clearly in Fig. 2. The cock 39 has a bore extending from its lower end nearly to the top, where it meets a transverse bore 41, extending through the cock and registering with side bores 42 in the lower end of the barrel. The cock 39 is provided with a handle 43, by which it may be turned, and by turning down the cock the water in the coupling passes down through the bore 37 of the barrel 34, thence into the ports 42, and thence out through the bores 41 and 40.

The coupling 25 is connected with the supply-pipe 10 and the coupling discharge-pipes 35 and 36, and these are arranged in such a way that a carriage may be drawn beneath the coupling and the discharge-pipes rotated around the carriage. A short hose may be connected in any usual manner to the lower end of pipe 36, and when the water is turned on by means of the valve 11 the water passes through the coupling and discharge-pipes, and can be brought to bear effectively on any desired part of the carriage which is being washed. The coupling is constructed in such a way that there is no leakage, and after the operation is completed the valve 11 can be closed and the cup 39 opened, so as to permit all surplus water to drain from the coupling.

I have shown and described the hanger and coupling, which form the essential features of my invention, in connection with a series of pipes adapted for use in washing carriages; but it will be understood that I do not limit my invention to such use, and that the coupling described may be used in connection with any water or liquid supply system employing a swinging or turning discharge-pipe.

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

The combination with the coupling barrel having a longitudinal bore in its lower end, of the sleeve journaled on the barrel and adapted to receive the discharge therefrom, the sleeve having a suitable discharge nipple, the side ports to receive the discharge from the bottom bore of the barrel, and a drain cock screwed into the lower end of the barrel, the cock having a longitudinal bore and a transverse bore connecting with the said longitudinal bore and registering with the ports in the barrel bottom, substantially as described.

MOSES F. GALE.

Witnesses:

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