No. 750,932. PATENTED FEB. 2, 1904.

J. P. BAIRD.

OVERHEAD VEHICLE WASHER.

APPLICATION FILED MAY 23, 1903.

NO MODEL.

Fig. 1.

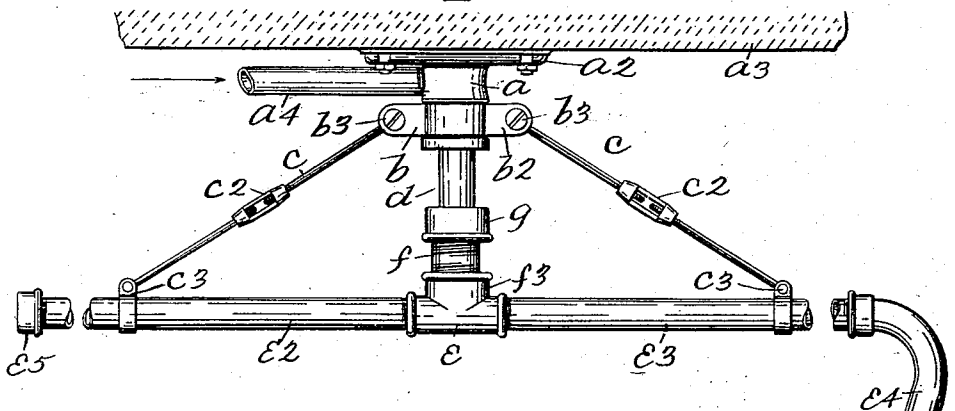
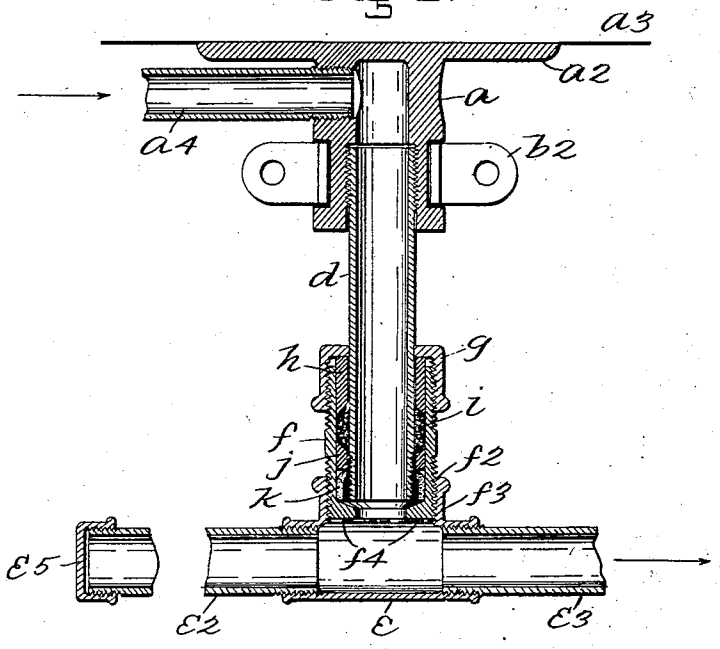


Fig. 2.



WITNESSES

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No. 750,932. Patented February 2, 1904.

UNITED STATES PATENT OFFICE.

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OVERHEAD VEHICLE-WASHER.

SPECIFICATION forming part of Letters Patent No. 750,932, dated February 2, 1904.

Application filed May 23, 1903. Serial No. 158,407. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. BAIRD, a citizen of the United States, residing at Whitestone, in the county of Queens and State of New York, have invented certain new and useful Improvements in Overhead Vehicle-Washers, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved coupling for overhead vehicle-washers of the class shown and described in United States Letters Patent No. 624,423, granted to me May 2, 1899, a further object being to provide a coupling for vehicle-washers of this class which shall be water-tight at all times, while permitting the distributing-pipe to freely swing or turn in a horizontal plane; and with these and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a side elevation of an overhead carriage-washing device provided with my improvement, and Fig. 2 a central vertical section thereof.

In the practice of my invention I provide a tube a, which is closed at its upper end and provided with a plate a^2, whereby it may be connected with a ceiling or other overhead support a^3, and one side of which is provided with a branch tube a^4, through which water is supplied. Revolubly mounted on the lower end of the tube a is a clamp or holder b, composed of two parts b^2, connected at the ends by plugs or screws b^3, with which are connected rods c, composed of two parts connected by turnbuckles c^2 and provided with rings, bands, or other supports c^3.

Connected with the lower end of the tube a, and preferably screw-threaded thereinto, is a pipe d, on the lower end of which is a coupling e, with which are connected tubes e^2 and e^3, which are supported by the rings or bands c^3, and in the form of construction shown one of these tubes, preferably the tube e^3, is provided with a flexible water-supply tube e^4, the other tube e^2 being closed by a cap e^5.

The connection of the coupling e with the tube d constitutes the chief feature of this invention and is made in the following manner: A sleeve f, screw-threaded at both ends, is provided, and this sleeve is screwed into the coupling e, as shown at f^2, said coupling being provided with a screw-threaded neck f^3 for this purpose. The upper end of the sleeve f is also provided with a cap g, through which the tube d passes, and in the upper end of the sleeve f and held therein by the cap g is placed a metal band h, below which is a suitable packing i, preferably of fibrous material, and below this packing a collar j is screwed onto the lower end of the tube d and the packing i is compressed between the collar j and band h, and the adjacent ends of said collar and said bands are reamed out, as shown in Fig. 2. The lower end of the sleeve f is provided with an inwardly-directed flange or rim f^4, and placed on the lower end of the tube d below the collar j is a flexible and elastic packing-ring k, the upper portion of which is contracted, so as to closely fit the tube d, while the lower end thereof is enlarged, so as to closely fit the sleeve j. As thus constructed it will be seen that the coupling e with the pipes e^2 and e^3, the sleeve f and the cap g are all free to turn on the parts h, i, j, and k, while the said latter parts closely fit the interior of the sleeve f and the tube d, while the collar j is secured to said tube. This makes a coupling which is perfectly water-tight at all times, and the tubes e^2 and e^3 may be swung in a horizontal open position or turned entirely around without in any way interfering with the coupling or disarranging the parts thereof.

In the form of construction shown the tube e^2 forms an air-pressure chamber in which back pressure occasioned by the manipulation of the washer-tube is exhausted or taken up,

and this also serves to prevent leakage through the coupling in the rotation thereof and in the operation of the washer, the air-cushion serving to relieve the pressure on the coupling which would otherwise be occasioned.

It will be understood that an ordinary spray or washer is connected with the pipe e^4, and the water being supplied through the pipe a^4 the operation of this device will be apparent and will be the same as other devices of this class and similar to that of the invention described and claimed in the patent hereinbefore referred to. It will also be understood that the separate parts of the device may be covered with any suitable material to prevent water from condensing thereon and dripping therefrom, and the entire device or apparatus may be incased, if desired, for this and other purposes.

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

1. In an apparatus of the class described a depending pipe, a sleeve mounted thereon and threaded at both ends, a pipe-coupling connected with the lower end of said sleeve, a cap connected with the upper end of said sleeve, a band placed in the upper end of said sleeve, a collar placed in said sleeve below said band, packing material placed between said band and said sleeve and an annular flexible packing placed below said collar and within said sleeve and enlarged outwardly and downwardly and the upper portion of which fits said pipe, said sleeve being also provided at its lower end with an inwardly-directed annular flange or rim, substantially as shown and described.

2. In an apparatus of the class described a depending pipe, a sleeve mounted thereon and threaded at both ends, a pipe-coupling connected with the lower end of said sleeve, a cap connected with the upper end of said sleeve, a band placed in the upper end of said sleeve, a collar placed in said sleeve below said band, packing material placed between said band and said sleeve and an annular flexible packing placed below said collar and within said sleeve and enlarged outwardly and downwardly and the upper portion which fits said pipe, said sleeve being also provided at its lower end with an inwardly-directed annular flange or rim, said collar being connected with said pipe, substantially as shown and described.

3. In an apparatus of the class described a depending pipe, a sleeve mounted thereon and threaded at both ends, a pipe-coupling connected with the lower end of said sleeve, a cap connected with the upper end of said sleeve, a band placed in the upper end of said sleeve, a collar placed in said sleeve below said band, packing material placed between said band and said sleeve and an annular flexible packing placed below said collar and within said sleeve and enlarged outwardly and downwardly and the upper portion which fits said pipe, said sleeve being also provided at its lower end with an inwardly-directed annular flange or rim, said collar being connected with said pipe, and said coupling being provided at one end with a closed pipe and at the opposite end with another pipe and a valve-tube connected therewith, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 7th day of March, 1903.

JOHN P. BAIRD.

Witnesses:
F. A. STEWART,
C. E. MULREANY.