

(No Model.)

J. P. BAIRD
DEVICE FOR WASHING VEHICLES.

No. 570,890.

Patented Nov. 3, 1896.

Fig. 1.

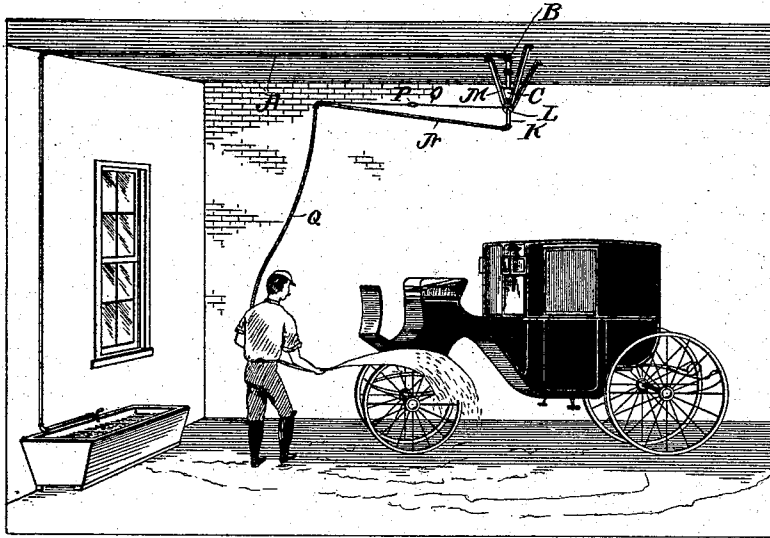
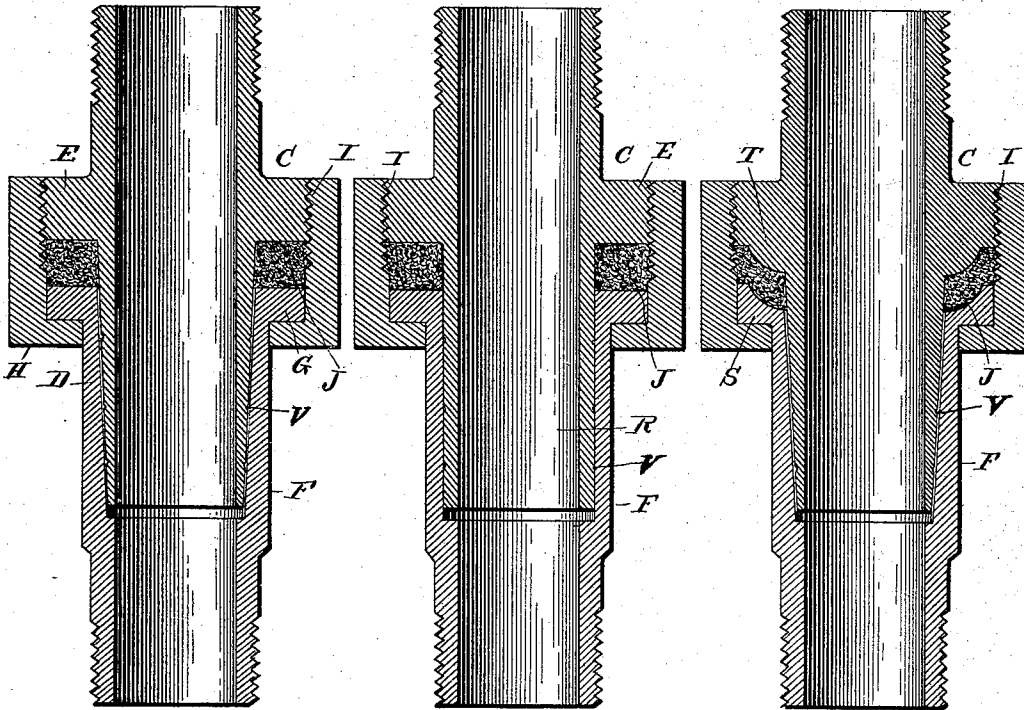


Fig. 2.

Fig. 3.

Fig. 4.



Witnesses
E. Wurdeman
A. Williamson

Inventor
John P. Baird
by *Geo. H. Ablegate*
Attorney

UNITED STATES PATENT OFFICE.

JOHN P. BAIRD, OF LOCKPORT, NEW YORK, ASSIGNOR OF ONE-THIRD TO
JONAS STETLER, OF PHILADELPHIA, PENNSYLVANIA.

DEVICE FOR WASHING VEHICLES.

SPECIFICATION forming part of Letters Patent No. 570,890, dated November 3, 1896.

Application filed June 2, 1896. Serial No. 594,037. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. BAIRD, a citizen of the United States, residing at Lockport, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Devices for Washing Vehicles and the Like, of which the following is a specification.

My invention relates to a new and useful improvement in devices for washing carriages and the like, and has for its object to so construct such a device as to permit the free swinging movement of a flexible hose within such a radius as to enable a person to gain access to all sides of a vehicle or other object for the purpose of directing a stream of water thereagainst by the use of a suitable nozzle.

With these ends in view my invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction and operation in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an interior view of a room, showing my improvement applied to the ceiling thereof and illustrating the method of using the same in connection with a carriage; Fig. 2, a central section of the swinging joint, by means of which the reach-pipe is permitted to turn; Fig. 3, a similar view of a slightly-modified form of said joint, and Fig. 4 a further modification thereof.

In carrying out my invention I lead a line of pipe A along the ceiling of the room in which the carriages are to be washed, such as a stable, and provide a right-angle section B, to which is coupled the swing-joint C, the latter being composed of a tapering nipple D and a threaded flange E, formed with the stationary portion of the joint, the swinging section of said joint consisting of the pipe F, having the interior of its upper end flared to receive the tapering nipple, and a flange G, formed upon its upper end. These two sections of the joint are secured together by union-coupling II, which is adapted to pass

through the section F until coming in contact with the flange G, said coupling also being provided with threads for engagement with the threads I, formed upon the flange E. As will be seen, this coupling will draw the section F into firm contact with the tapered surface of the nipple D, and yet permit said section F to revolve about said nipple while excluding the passage of water therebetween.

A suitable packing J may be placed within the coupling between the flanges E and G, so that when said flanges are drawn toward each other this packing will be compressed, thereby further insuring the retention of the water within the joint. The section F has coupled thereto in any suitable manner an extension K, upon which is secured a collar L, adapted to turn therewith, and this portion of my improvement is supported by a bracket M, secured to and depending from the ceiling, the collar L being arranged immediately below said bracket.

A reach-pipe N is coupled by a right-angle joint to the extension K, and is held in proper relative position to said extension by a tension wire or rod O, said rod being provided with a turnbuckle P for bringing the proper amount of strain upon the outer end of the reach-pipe.

From the end of the reach-pipe leads a flexible hose Q, which may terminate in a suitable nozzle, by means of which a stream of water may be directed upon the object to be washed. From this description it will be obvious that a carriage standing beneath the bracket M may be thoroughly cleansed by the application of a stream of water directed thereon from all sides and directions, since the reach-pipe will follow the person holding the nozzle in a circle or radius of which will be the length of said reach-pipe, and as the hose Q is flexible the person will be in no wise encumbered in the manipulation of the nozzle.

In practice the hose is preferably of a length which will not permit the nozzle to reach the ground or floor when suspended from said hose, and this will obviate the necessity of the hose being stored when out of use, and yet will give the person using the nozzle free use thereof.

It will of course be understood that a suit-

able valve is to be arranged within easy access of the person using the hose, so that the water may be turned off or on as occasion may require. The modification shown in Fig. 3 is similar in all respects to the construction described in connection with Fig. 2, with the exception that the nipple R is made in straight, not tapering, sections and the swinging member of the joint is provided with a correspondingly-straight hole for the reception of said nipple.

In Fig. 4 I have shown slightly-modified forms of flanges S and T, the former being a concaved annular recess and the latter a convexed annular shoulder, so as to force the packing U more tightly against the walls of the nipple.

A series of grooves V may be formed upon the nipple to facilitate the lubrication thereof.

Having thus fully described my invention, what I claim as new and useful is—

1. In combination with a device for washing carriages and the like, a stationary section having a flange formed thereon said flange being threaded, a convexed shoulder also formed upon said flange, a tapering nip-

ple, a revolving section adapted to fit over said nipple, a flange formed with the revolving section having a concaved recess and a coupling adapted to engage the last-named flange and be threaded upon the first-named flange, substantially as shown and described.

2. In combination with a coupling consisting of a stationary section having a threaded flange, a convexed shoulder formed upon said flange, a tapering nipple, a revolving section adapted to fit over said nipple, a flange formed with the revolving section, having a concaved recess a coupling adapted to engage the last-named flange and be threaded upon the first-named flange, a reach-pipe connected with the joint, a bracket for suspending the same and a flexible hose attached to the reach-pipe, substantially as described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

JOHN P. BAIRD.

Witnesses:

S. S. WILLIAMSON,
MARK BUFORD.