

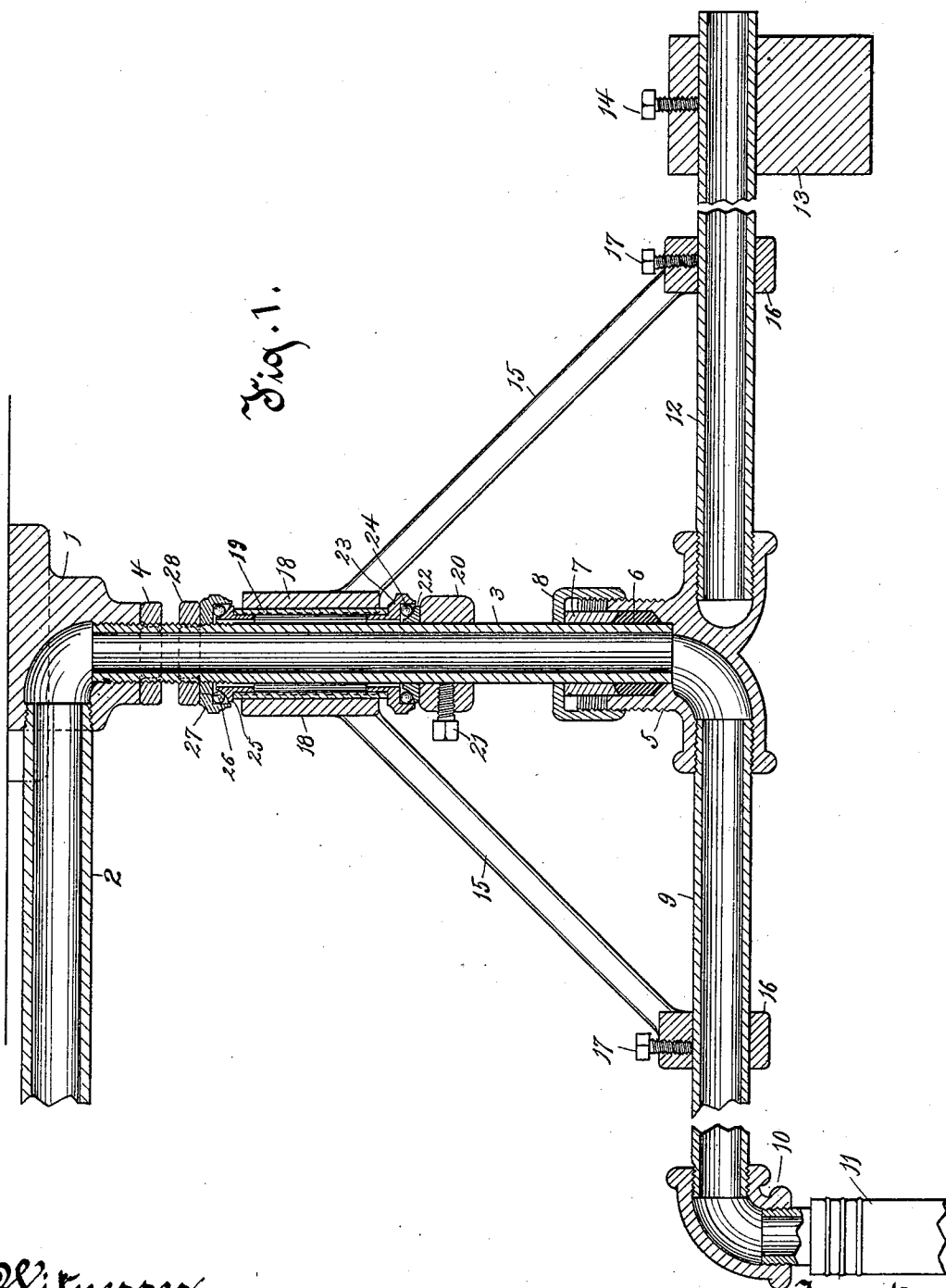
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Patented May 29, 1900.

P. H. RYAN, T. J. LONG & F. E. WRIGHT.
APPARATUS FOR WASHING VEHICLES.

(Application filed June 30, 1899.)

(No Model.)



Witnesses.

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR WASHING VEHICLES.

SPECIFICATION forming part of Letters Patent No. 650,483, dated May 29, 1900.

Application filed June 30, 1899. Serial No. 722,370. (No model.)

To all whom it may concern:

Be it known that we, PATRICK H. RYAN, THOMAS J. LONG, and FRANK E. WRIGHT, of Appleton, in the county of Outagamie and State of Wisconsin, have invented a new and useful Improvement in Apparatus for Washing Vehicles, of which the following is a description, reference being had to the accompanying drawing, which is a part of this specification.

Where water is supplied under pressure through service-pipes, it is convenient to throw water through a hose from a nozzle onto carriages or other vehicles for washing them; and our invention has for its object to provide an apparatus for so supporting the hose in connection with a water-supply pipe as to render the work of washing vehicles by means of a service-supply of water through a hose an easy task, the apparatus being adapted to support the hose and its nozzle in such manner that they can be carried around the vehicle from one side to the other with the minimum of labor.

The invention consists of the apparatus, its parts, and combinations of parts, as herein described and claimed, or the equivalents thereof.

In the drawing the figure is a view of our novel apparatus, the principal features of the apparatus being shown in central section for convenience of illustration.

In the drawing, 1 is a block adapted to be secured permanently to the ceiling of a building, as a carriage-house or barn, and from which block the apparatus is suspended. The block is provided with a passage through it from one side and downwardly centrally for the passage of water. A service-supply-pipe 2 is secured to and leads into the block 1, and a depending tube 3, provided at its upper extremity with a screw-thread, turns into the block 1 and depends therefrom, forming a continuous passage, with the block 1, from the service supply-pipe 2. A jam-nut 4 turns on the pipe 3 against the block 1. At the lower end of the depending supply-pipe or hanger 3 there is a swiveling coupling-head 5, having a water-passage through it from its upper end and laterally at one side, the pipe 3 en-

tering the upwardly-extending enlarged portion of the water-passage through the head. Suitable packing 6 to render the joint watertight is placed around the pipe 3 within the chamber of the coupling-head 5, and a packing-ring 7, loose about the pipe 3, bears downwardly against the packing, and a cap 8 about the pipe 3 bears against the upper end of the ring 7 and is screw-threaded and turns thereby on the head 5, being adapted to force the ring 7 down against the packing 6, compressing it in the coupling-head about the pipe 3, so as to render the joint between the pipe and the coupling-head water-tight. A hose supply-pipe 9 is secured to and extends laterally from the swiveling coupling-head 5, so as to form a continuous water-passage therefrom, and terminates at its outer end in a coupling 10, that turns downwardly and is adapted for attaching a flexible hose 11 thereto. An arm 12, conveniently a piece of iron water-pipe, is secured to and projects laterally from the head 5 opposite the pipe 9 and is adapted to carry a counterbalance 13 thereon to cause the apparatus to hang evenly and to be so balanced as to swing about the pipe 3 with the greatest ease. The weight or counterbalance 13 is loose on the arm 12, being thus adjustable thereon, and adapted to be secured in position by the set-screw 14, turning in the counterbalance against the arm.

For supporting the head 5 and the parts secured thereto revolubly on the pipe 3 we provide spreading legs 15 15, which being secured at their lower ends at a distance from the head 5 to the pipe 9 and to the arm 12, conveniently by terminal ring-like ends 16 16 and set-screws 17 17, are provided at their upper extremities with enlarged ends 18 18, that fit against and are secured to a sleeve 19, that surrounds the pipe 3, preferably at a little distance therefrom. Below this sleeve 19 a collar 20 is secured adjustably to the pipe 3 by a set-screw 21, and this collar supports the sleeve 19 and the load, comprising the supply-pipe 9 and the arm 12, suspended therefrom, on the legs 15. To support the sleeve 19 and its load securely and so as to revolve most easily about the tube 3, we provide ball-bearings below and above the sleeve.

Thus between the sleeve 19 and the supporting-collar 20 there are an annular ball-bearing cone 22, a ball-cup 23, and a set of bearing-balls 24, and above the sleeve 19 there are
5 a cone 25, balls 26, and a cup 27. A jam-nut 28 turns on the pipe 3 loosely against the ball-bearing device and holds the sleeve 19 in place on the pipe 3. The block 1 being secured to the ceiling of the building above
10 the place at which vehicles are washed therein the pipe 3 depends therefrom only a short distance and so that the pipe 9 and the arm 12 are above the top of any carriage or vehicle that is to be washed, and the arm 9 extends laterally therefrom to such distance
15 that the hose 11, attached thereto, depends therefrom at such locality as to be at the side or end of the vehicle and so that the hose can be carried around freely from side to side
20 and from end to end of the vehicle to discharge water therefrom freely against the vehicle, thus obviating having to carry the hose around from place to place on the floor when engaged in cleaning a vehicle.
25 It should be understood that the arm 12 and the counterbalance 13 are not an absolute necessity in this apparatus, as the apparatus would work successfully without any counterbalance or counterbalancing-arm; but
30 we prefer to employ a counterbalance of this character as making a better mechanical con-

struction adapted to be operated more easily than if the counterbalance were omitted.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination with an overhead-supported block having a water-duct through it and a water-supply pipe leading to it, and a pipe secured to and depending from the block, of a duct-provided head swiveling
35 loosely on and about the lower extremity of the depending pipe, a laterally-extending pipe secured to the swiveling head, a collar 20 secured adjustably on the depending pipe
40 above the swiveling head, a sleeve 18 loose about the depending pipe above the collar, cone-rings 23, 25 in the extremities of the sleeve about the pipe, a ball-bearing cone 22
45 resting on the collar, a ball-cup 27, bearing-balls 24, 26 between the cone-rings and the ball-bearing cone and ball-cup, a nut 28 turning on the pipe against the ball-cup, and a leg
50 15 secured to the sleeve and to the laterally-extending pipe 9.

In testimony whereof we affix our signatures in presence of two witnesses.

PATRICK H. RYAN.
THOMAS J. LONG.
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Witnesses:

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