

M. M. MOORE.

STAND PIPE.

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1,038,179.

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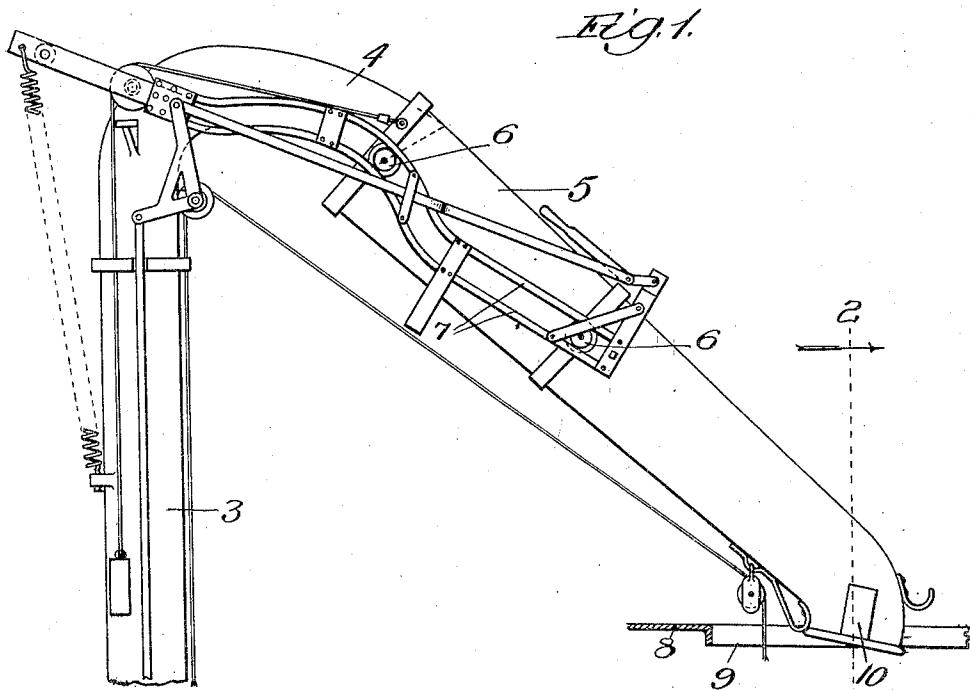
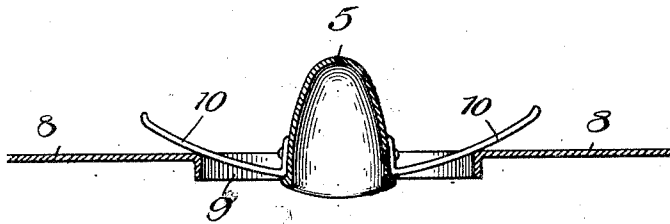


Fig. 2.



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UNITED STATES PATENT OFFICE.

MOSES M. MOORE, OF CHICAGO, ILLINOIS, ASSIGNOR TO T. W. SNOW CONSTRUCTION COMPANY, A CORPORATION OF ILLINOIS.

STAND-PIPE.

1,038,179.

Specification of Letters Patent.

Patented Sept. 10, 1912.

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To all whom it may concern:

Be it known that I, MOSES M. MOORE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Stand-Pipes, of which the following is a specification.

My invention relates to improvements in stand-pipes used at the side of railroad tracks for supplying water to the tenders of locomotives, and especially to stand-pipes of the character employing a spout-section movable up and down for insertion into the water-inlet of the tender to be filled. Stand-pipes of this character as hitherto commonly provided are objectionable, as movement of the tender along the track, after the outlet-section of the stand-pipe has been inserted into the water-inlet of the tender, often results either in tearing said spout-section from the supporting column of the stand-pipe, or throwing the entire stand-pipe to the ground.

My object is to avoid danger of impairment of the stand-pipe from this cause by the provision of suitable means for this purpose which shall be simple of construction and economical of manufacture.

For the purposes of illustration I have chosen to show my invention as embodied in a stand-pipe of a certain type thereof, the stand-pipe illustrated as to its general features being like that disclosed in U. S. Letters Patent No. 1,000,104, granted to me on August 8, 1911 for stand-pipes, though it is not my intention that I be understood as intending to limit my invention to its use in connection with this particular construction, or type, of stand-pipe.

Referring to the accompanying drawing, Figure 1 is a view in elevation of the stand-pipe disclosed in said Letters Patent, equipped with my improvement, this view showing the spout in position for discharging water into a tender the top of which latter, containing the water-inlet for the tender and into which the discharge-end of the spout extends, being illustrated in broken vertical sectional elevation; and Fig. 2, an enlarged section taken at the line 2 on Fig. 1 and viewed in the direction of the arrow.

As the stand-pipe illustrated is disclosed in said Letters Patent, it will be sufficient

to describe, in general, only those parts thereof which have a bearing on the use of my improvements.

The upright water-conducting column of the stand-pipe is represented at 3 and terminates in a laterally extending pipe-section 4. Coöperating with the section 4 is a counterweighted spout 5 which telescopes with the section 4 and is supported on the column 3 by means of rollers 6 which are confined in guides 7 pivoted on the column and of a shape causing the spout 5 to be given a downwardly-dipping movement at its outlet-end in the operation of drawing the spout down and away from the column 3 for positioning the spout 5 in the opening of a tender to be filled with water from the stand-pipe, as for example, the tender of which a portion of the top is represented at 8 and contains the water-inlet 9.

In carrying out my invention in the preferred manner I provide on the discharge end of the spout 5, close to its lower edge, laterally-extending diametrically-opposed arms 10 which are rigidly secured to the spout 5 and are of sufficient length to extend beyond the opening 9 regardless of the position of the spout in said opening. The arms 10 incline upwardly and the spout 5, when it is drawn down to the position illustrated for discharging water into the tender, rests at these arms upon the surrounding wall of the opening, as illustrated. Should the tender, after the spout 5 is positioned in the opening 9, as described, move in either direction on the track, the spout 5 will be lifted out of the opening 9 as the wall of said opening which is moved toward the spout 5 will travel against the arm 10 resting thereon, thereby raising said arm and with it the spout 5. Thus instead of the spout interlocking with the wall of the opening 9, in the event of movement of the tender on the track, and tearing the spout 5 from the column 3 or dragging down the entire stand-pipe structure, the spout will, by rising as stated, be moved into a position in which it will not interlock with the wall of the opening 9, and thus impairment thereto is avoided.

While I have illustrated a specific embodiment of my invention, I do not wish to be understood as intending to limit it to such

embodiment, as it may be embodied in many other forms, as will be manifest to those skilled in the art.

What I claim as new and desire to secure by Letters Patent is:

1. The combination with a tender, of a stand-pipe formed with a vertically-adjustable outlet-section for insertion into the inlet-opening of the tender, and means operating automatically to lift said section when the tender moves, for the purpose set forth.

2. In a stand-pipe formed with a vertically-adjustable outlet-section for insertion into the inlet-opening of a tender, means on said outlet-section cooperating with the tender for lifting said section when the tender moves, for the purpose set forth.

3. In a stand-pipe formed with a vertically-adjustable outlet-section for insertion into the inlet-opening of a tender, oppositely-extending members on said section cooperating with the tender for lifting said section when the tender moves, for the purpose set forth.

4. In a stand-pipe formed with a vertically-adjustable outlet-section for insertion into the inlet-opening of a tender, oppositely-extending arms on said section at which the stand-pipe rests on the tender, operating to lift said section when the tender moves, for the purpose set forth.

5. In a stand-pipe formed with a vertically-adjustable outlet-section for insertion into the inlet-opening of a tender, an upwardly inclined arm positioned on said section to engage with a wall of said opening for lifting said section when the tender moves.

6. In a stand-pipe formed with a vertically-adjustable outlet-section for insertion into the inlet-opening of a tender, oppositely-extending upwardly-inclined arms positioned on said section to engage with the wall of said opening for lifting said section when the tender moves.

MOSES M. MOORE.

In presence of—

NELLIE B. DEARBORN,
OTTILIE C. AVISUS.