

No. 748,507.

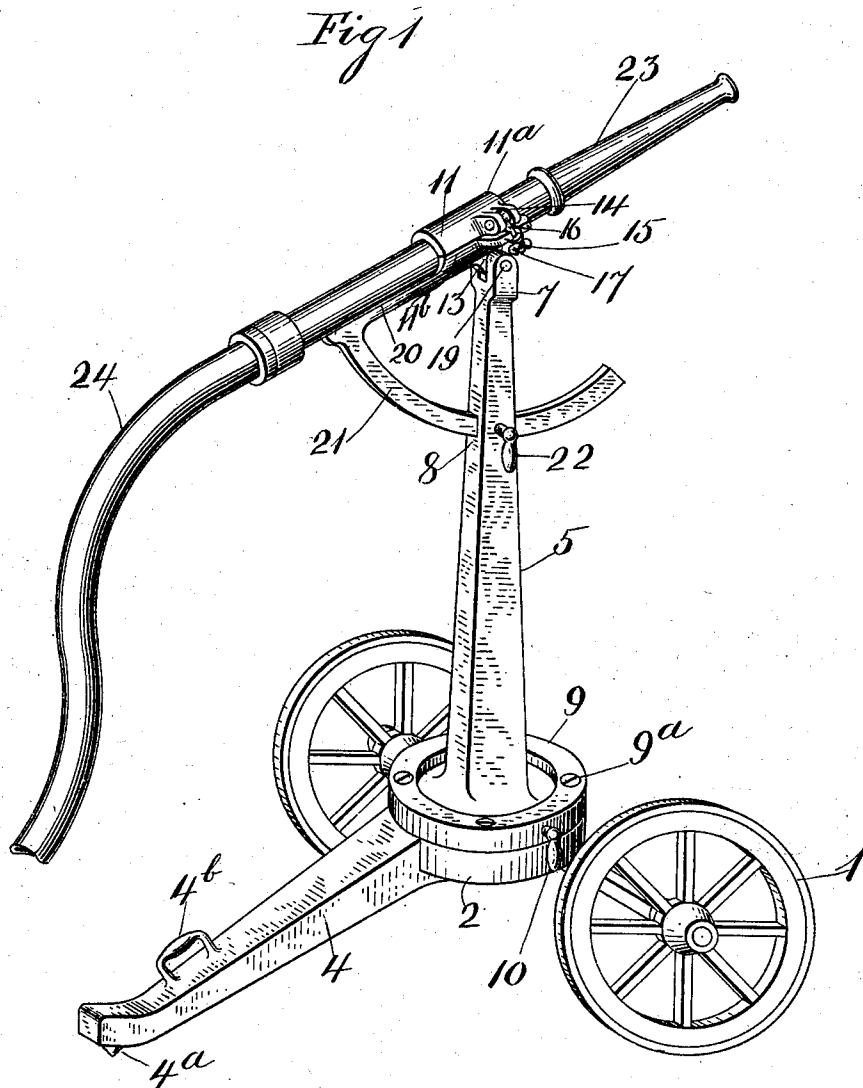
PATENTED DEC. 29, 1903.

W. R. JOYNER.
HOSE NOZZLE SUPPORTING AND GUIDING DEVICE.

APPLICATION FILED FEB. 25, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses.

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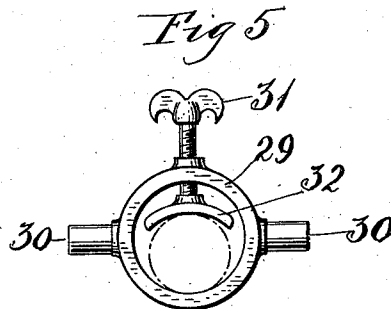
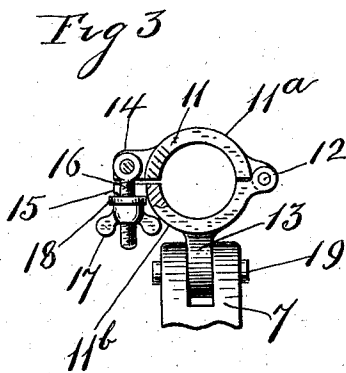
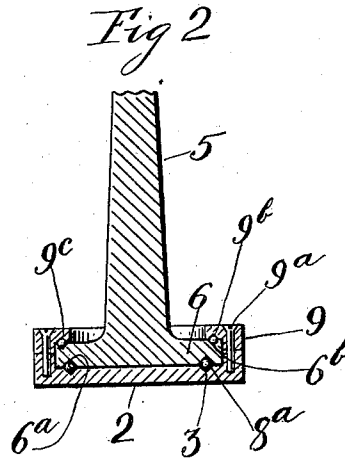
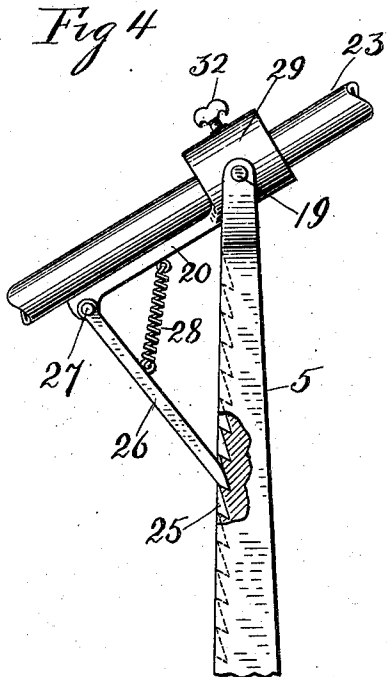
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2 SHEETS—SHEET 2.

NO MODEL.



Witnesses.
Otto Greenberg
Emma H. Finlayson.

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Walter R. Joyner
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UNITED STATES PATENT OFFICE.

WALTHALL R. JOYNER, OF ATLANTA, GEORGIA.

HOSE-NOZZLE SUPPORTING AND GUIDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 748,507, dated December 29, 1903.

Application filed February 25, 1903. Serial No. 144,989. (No model.)

To all whom it may concern:

Be it known that I, WALTHALL R. JOYNER, a citizen of the United States of America, and a resident of Atlanta, county of Fulton, State of Georgia, have invented certain new and useful Improvements in Hose-Nozzle Supporting and Guiding Devices, of which the following is a specification.

My invention relates to improvements in hose-nozzle supporting and guiding devices; and its object is to provide a device to firmly hold and guide a hose-nozzle so constructed that the stream end of the nozzle may be easily and quickly elevated or lowered to any degree in a vertical plane and may with facility be revolved to any degree in a horizontal plane.

I am aware that it is not new to provide a hose-nozzle holder adapted to accomplish the general results indicated; but so far as I am aware I am the first to provide a device for such purposes of the specific construction hereinafter described and illustrated, which construction possesses advantages over any other construction for similar purposes of which I am aware. To this end it is my purpose to provide a base adapted to be suitably mounted on a carriage and on said base to mount revoluble a column at the end of which is pivotally secured a sleeve adapted to hold a nozzle, the said sleeve and the nozzle incased therein being elevated or lowered by an arm engaging with the body of the column and locked with a clamp.

My invention therefore consists of the hereinafter briefly-described specific details of construction and other details of construction, which will be hereinafter described, and more particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a perspective view of my invention; Fig. 2, a sectional view of a base and column I employ, with a flanged collar secured to the base and surrounding the column; and Fig. 3 is a detail sectional view of a sleeve adapted to contain a nozzle, the lower end of said sleeve and the upper end of the column wherein it is mounted being shown in elevation. Fig. 4 represents in elevation a modified form of column, sleeve, and engaging arm which I may use, the column being shown partly

broken away. Fig. 5 is a detail view of the modified form of my sleeve.

Like reference-numerals indicate like parts in all of the drawings.

1 is a carriage on which is suitably mounted a base 2, provided with ball-bearing channels 3.

4 is a leg suitably secured either to the carriage 1 or the base 2 for the purpose of bracing the base, and this leg may be either firmly or detachably secured to the carriage or base.

4^a is a spike in the leg to aid in more firmly holding the base, and 4^b is a handle secured to the leg whereby the carriage and the device mounted thereon may be moved.

5 is a column having at its lower end a lateral extension 6 and being bifurcated at its upper end, as at 7, and provided also at a suitable point with a slot 8 through the body of the column. The lateral extension 6 is provided on the bottom thereof with ball-bearing channels 6^a, and I prefer also to provide the top of said lateral extension with ball-bearing channels 6^b. The column 5 is mounted on the base 2 to revolve on ball-bearings 8^a, to accommodate which the ball-bearing channels 3 and 6^a are provided, as above explained.

9 is a flanged collar suitably secured to the base 2 by means of screws 9^a, the said collar being adapted to fit over the lateral extension 6 on the bottom of the column 5, and this collar is preferably provided with ball-bearing channels 9^b, ball-bearings 9^c being accommodated within the ball-bearing channels 6^b and 9^b.

10 is a clamp passing through the flanged collar 9 and engaging with the column 5 to lock the same in any desired position. It will be observed, therefore, that the column 5 may be readily revolved on the base 2 by virtue of the ball-bearings, that the flanged collar 9 holds the column 5 to the base firmly at all points, and that the said column may be locked by means of the clamp 10 at any point to which it may be revolved.

11 is a split sleeve adapted to contain a hose-nozzle and pivotally mounted within the bifurcated end 7 of the column 5, as at 12, as will be hereinafter more fully explained. The

split sleeve 11 consists of an upper part 11^a and a lower part 11^b, hinged, as at 12, so that the two parts may be swung apart for the purpose of fitting therein or removing therefrom a nozzle of any suitable diameter. The lower part 11^b is provided with a lug 13, adapted to fit within the bifurcated end 7 of the column 5 and to be pivotally mounted within said bifurcated end on the shaft 19.

14 14 are extensions from the upper part 11^a of the sleeve 11, and 15 15 are extensions from the lower part 11^b of said sleeve. 16 is a bolt pivotally mounted within the extensions 14 14 and adapted to depend and swing within the extensions 15 15 on the lower part 11^b of the sleeve. 17 is a nut engaging with the bolt 16 for the purpose of locking the said bolt within the extensions 15 15 and therefore locking the two parts of the sleeve above described. 18 is a washer preferably interposed between the nut 17 and the extensions 15 15. It will be noted, therefore, that by this construction I can easily open the sleeve for the purpose of fitting therein a nozzle and then lock the nozzle therein by means of the bolt 16 and the nut 17 and that the said construction enables the sleeve to accommodate a nozzle of any suitable diameter.

19 is a shaft passing through the bifurcated ends 7 of the column 5 and the lug 13 of the sleeve 11, on which the said sleeve is pivotally mounted, as previously stated.

20 is a longitudinal extension of the lower part of the sleeve 11, and 21 is a segment secured to said extension and adapted to pass through the slot 8 in the body of the column 5.

22 is a clamp passing through the body of the column and adapted to engage with the segment 21 for the purpose of locking said segment in said slot, whereby the sleeve 11 and a nozzle 23, contained therein, may be locked at any desired elevation.

24 represents a line of hose attached to the nozzle.

It will be observed that although I have illustrated the segment 21 as being a part of the sleeve 11, which is a preferable construction, yet since its purpose is to lock a nozzle contained within the sleeve at any desired elevation I may secure the segment directly to the nozzle in any other suitable manner.

It is apparent from this description that in the operation of my device I may revolve the nozzle 23 and the column 5, on which it is mounted, so as to direct a stream of water at any point within a horizontal plane and maintain the nozzle at this point by locking the column 5 by means of the clamp 10, and that I may elevate or lower the end of the nozzle and maintain the same at any desired point

in a vertical plane by moving the segment 21 and locking the same to the column 5 by virtue of the clamp 22. This construction enables the foregoing operations to be easily and quickly performed, which is of the utmost importance in a device of this kind, provided, primarily, for the purpose of fighting fires, and the advantages of my invention over the other devices in the art are many and apparent.

It will be observed that the carriage 1 is not a necessary part of the device and need not be employed.

In Figs. 4 and 5 I have illustrated a modified form of my invention, in which the column 5 is provided with a series of notches 25, 26, being an arm pivoted at its upper end to the extension 20 of the sleeve, as at 27, and whose lower end being preferably pointed is adapted to engage with the notches 25, 28 being a coil-spring secured to the extension 20 and the arm 26 for the purpose of maintaining the said arm in its proper position. The function and purpose of this construction is obvious.

29 represents a modified form of sleeve provided laterally with the pivot-posts 30 30 and adapted to be mounted thereon within the bifurcated end 7 of the column.

31 is a clamp-screw passing through the sleeve 29, and 32 is a segment loosely secured to the end of the clamp-screw 31, whereby when the said clamp-screw is screwed down a nozzle within the sleeve 29 may be locked therein.

What I claim is—

In a hose-nozzle supporting and guiding device, a base comprising a movable carriage having a bracing-leg, said leg being adapted to serve as a handle for moving the device, a socket formed integral with the base, ball-bearing channels formed in the socket-walls, a supporting-column having an enlarged lower end to coöperate with balls arranged in said ball-bearing channels, said column being bifurcated at its upper end, a split nozzle-receiving sleeve pivotally mounted within the bifurcated end of the column, a clamp for locking the parts of the split sleeve, a segment-arm depending from the splitsleeve, said column being formed with an opening to receive said segment-arm, and a clamp for locking said arm in adjusted positions relative to the column.

Signed by me, at the city of New York, State of New York, this 19th day of February, 1903.

WALTHALL R. JOYNER.

Witnesses:

JACOB I. BERGEN,
EMMA W. FINLAYSON.