

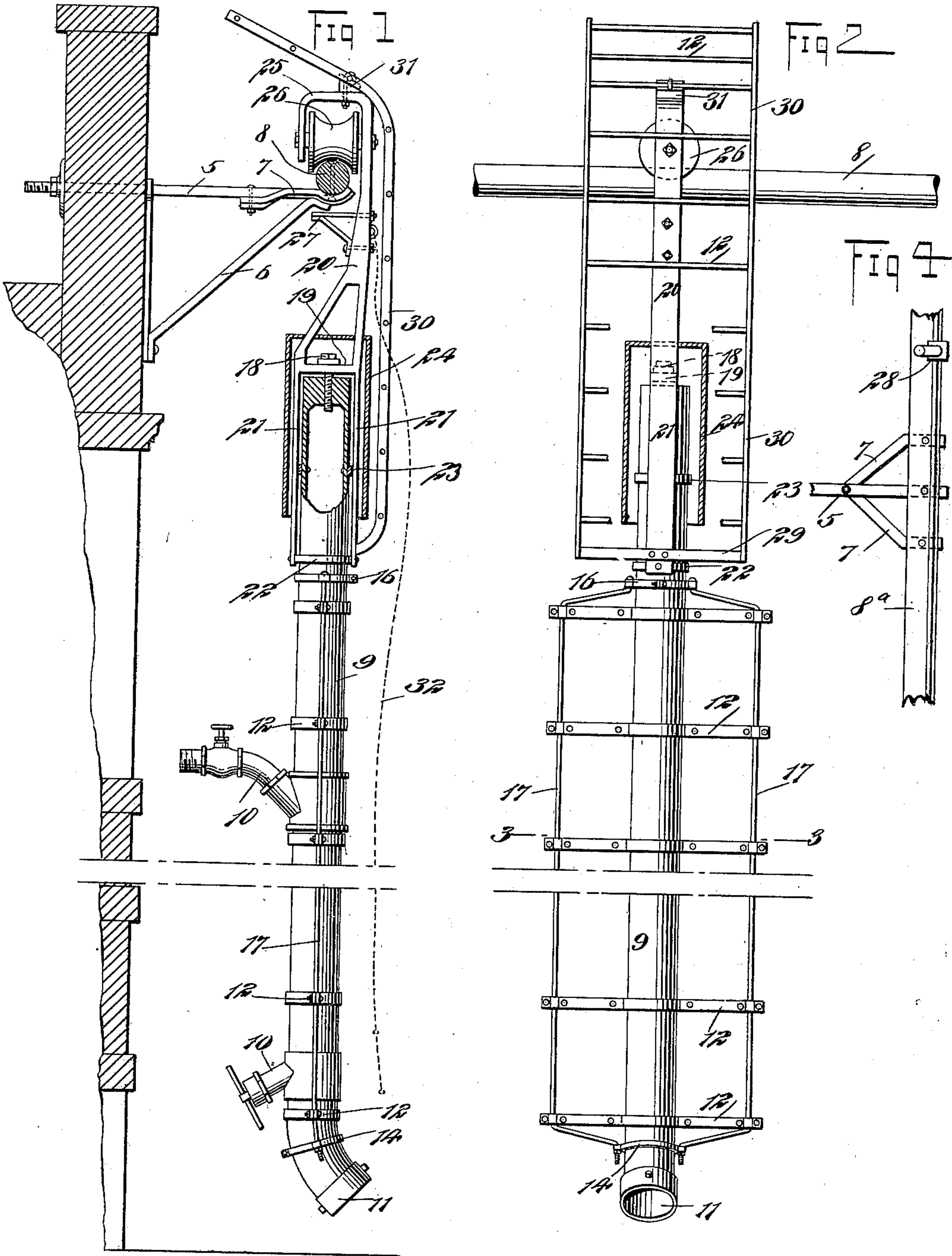
No. 628,872.

Patented July 11, 1899.

H. VIEREGG.
COMBINED STAND PIPE AND FIRE ESCAPE.

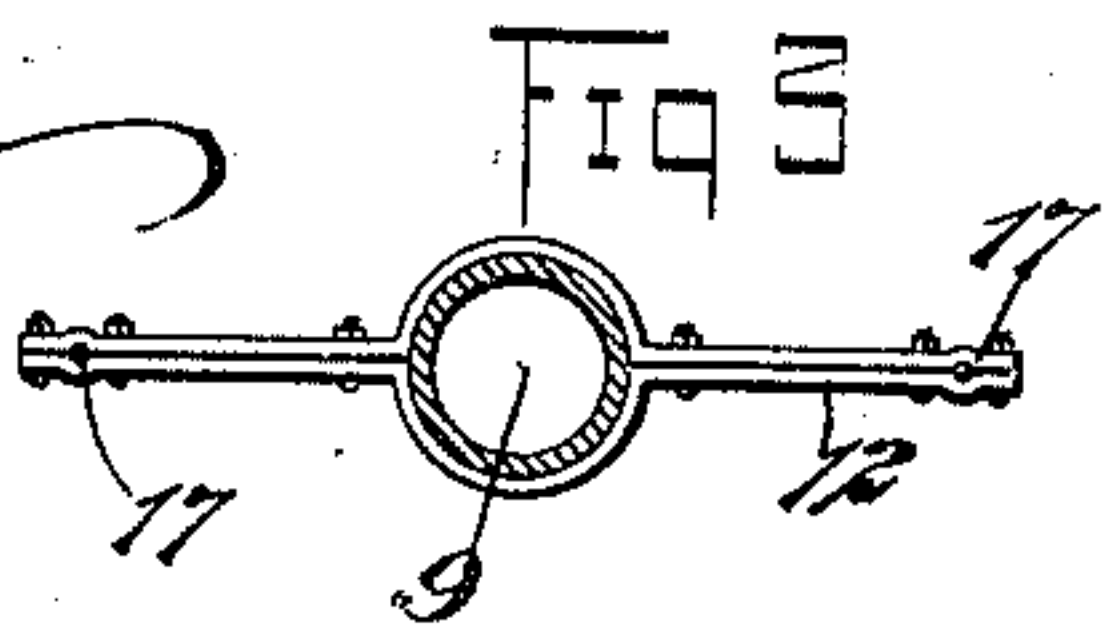
(Application filed Dec. 10, 1898.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY VIEREGG, OF GRAND ISLAND, NEBRASKA.

COMBINED STAND-PIPE AND FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 628,872, dated July 11, 1899.

Application filed December 10, 1898. Serial No. 698,914. (No model.)

To all whom it may concern:

Be it known that I, HENRY VIEREGG, of Grand Island, in the county of Hall and State of Nebraska, have invented a new and Improved Combined Stand-Pipe and Fire-Escape, of which the following is a full, clear, and exact description.

This invention relates to a combined stand-pipe and fire-escape in which the stand-pipe is mounted on a hanger which is arranged to roll on a track in front of a building, so that the stand-pipe may be placed in any position with regard to the building, and in which the stand-pipe is provided with a number of rungs, forming a ladder on which persons may ascend and descend.

This specification is the disclosure of one form of my invention, while the claim defines the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the invention with parts broken away. Fig. 2 is a front view thereof also with parts broken away. Fig. 3 is a transverse sectional view on the line 3 3 of Fig. 2, and Fig. 4 is a fragmentary plan view of the rail or track whereby the apparatus is supported. Such view shows a modification in the form of the rail.

Attached to the outer wall of a building and at the top thereof are a series of brackets, each of which consists of an outrunning arm 5 with a brace 6. Each arm 5 is provided with two short diagonally-extending auxiliary arms 7, which arms 7, together with the main arm 5, are riveted or otherwise fastened to the rail or track 8, and whereby the rail or track is supported in a horizontal position, as shown. The rail or track may be cylindrical in cross-section, as shown in Figs. 1 and 2, or may be modified. For example, it may have the angular form shown at 8^a in Fig. 4.

The stand-pipe 9 is provided with a series of branches 10, which are located adjacent to the floor of the building and provided with suitable valves. From these branches water may be taken for application to the several floors of the building in case of fire. The lower end of the stand-pipe has one or two couplings 11 for attachment to the pipe lead-

ing from the engine-pumps. The stand-pipe is provided at points throughout its length with a series of equidistant rungs 12, each of which is constructed of two similar sections bolted together and encircling the stand-pipe, so as to be rigidly attached thereto. The lower portion of the stand-pipe has a collar 14 fastened rigidly thereto, and the upper portion has a collar 16 also fastened rigidly thereto. These collars carry bracing-rods or flat strips 17, which are fastened in the respective ends of the rungs 12 and which serve to brace the rungs and stand-pipe. The rods or flat strips 17 are fastened rigidly to the several rungs by passing the rods or flat strips between the sections of the rungs and clamping said sections against the rods or flat strips. If desired, the rods or flat strips 17 may be bolted to the rungs.

The upper end of the stand-pipe is closed and provided with a bolt or pin 18, that is swiveled in the horizontal portion 19 of a hanger 20. The hanger 20 is provided with two downwardly-extending arms 21, located, respectively, on the sides of the stand-pipe and having attached rigidly to their lower ends a collar 22, which loosely embraces the stand-pipe 9. Attached to the stand-pipe at a point above the collar 22 and fitted between the stand-pipe and the arms 21 is a second collar 23, which serves normally to engage the arms 21 and to steady the same in their movement over the stand-pipe. Should the swivel-bolt 18 break, the stand-pipe 9 will drop until the ring or collar 23 engages the collar 22, whereupon the engagement of these two elements will serve to support the stand-pipe and prevent the further falling of the same. The parts 22 and 23 therefore comprise a safety device for the support of the stand-pipe in the event of an expansion. A hood 24 is fastened to the hanger and incloses the arms 21 thereof, as well as the upper end of the stand-pipe, so as to protect these parts.

The upper portion of the hanger has an inward and downward extension 25, which carries a grooved roller 26, mounted, preferably, on ball-bearings, (not shown,) and moves over the rail or track 8. An arm 27 is attached to the hanger and projects beneath the rail 8, so as to engage the same in the event of the upward movement of the hanger, thus

preventing the displacement of the roller 26. Fastened on the rail 8 is an adjustable stop-block 28, which is adapted to be engaged by the roller of the hanger, and thus limit the movement of the hanger and the parts carried thereby. This block 28 may be placed in any desired position. Fastened to the lower extremity of the outer arm 21 by means of a horizontal bar 29 is a ladder 30, which is also fastened to the hanger at the extension 25 thereof by means of a block or clip 31. This ladder 30 projects upwardly and thence inwardly over the top of the hanger, so that by means of the ladder a person may reach the roof of the building on which the apparatus is used. If desired, one or more guy-ropes, such as the guy-rope 32, (indicated by dotted lines in Fig. 1,) may be provided and attached to the hanger, as shown in said figure, by which means the apparatus may be

moved along the rail or track and held stationary when so desired.

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

The combination of a stand-pipe, a hanger pivoted to the stand-pipe at the upper end thereof and having arms extending down along the side of the stand-pipe, a collar rigidly attached to the lower ends of the arms and loosely encircling the stand-pipe, and a second collar fastened to the stand-pipe above the first collar and adapted to engage the first collar, to hold the collar should the pivot thereof break.

HENRY VIEREGG.

Witnesses:

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HENRY A. KOENIG.