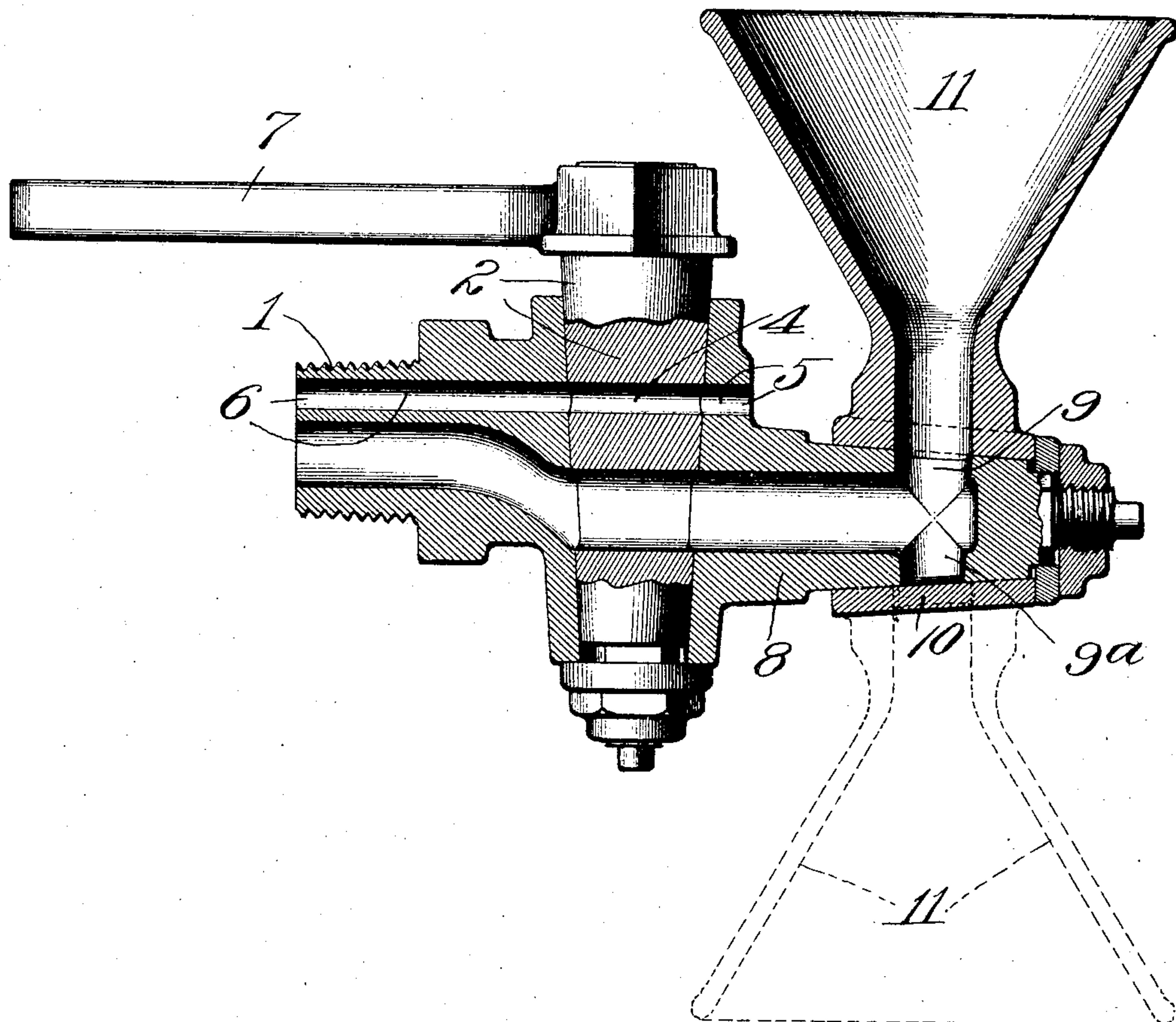


No. 779,946.

PATENTED JAN. 10, 1905.

O. LINK.
ROTARY FUNNEL COCK.
APPLICATION FILED OCT. 1, 1903.



Witnesses:

Wm. H. Scott
E. A. Pennington

Inventor:

Oliver Link,
by Bakewell & Cornwall
Attys.

UNITED STATES PATENT OFFICE.

OLIVER LINK, OF ST. CHARLES, MISSOURI, ASSIGNOR TO AMERICAN CAR & FOUNDRY COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF NEW JERSEY.

ROTARY FUNNEL-COCK.

SPECIFICATION forming part of Letters Patent No. 779,946, dated January 10, 1905.

Application filed October 1, 1903. Serial No. 175,278.

To all whom it may concern:

Be it known that I, OLIVER LINK, a citizen of the United States, residing at St. Charles, Missouri, have invented a certain new and useful Improvement in Rotary Funnel-Cocks, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to a new and useful improvement in funnel-cocks for car-heating apparatus, the object being to construct a device of the character described which is simple and cheap in construction and which will protect the system from the entrance of dirt and dust at this point, said funnel-cock being combined with an ordinary cock having a vent which is opened coincidently with the opening of the ordinary cock to admit water into the system.

With these objects in view the invention consists in the construction, arrangement, and combination of the several parts, all as will be hereinafter described and afterward pointed out in the claim.

The cock shown in the drawing is designed to be attached in position to a tank usually arranged on top of the coach, and the casing or shell is provided with a threaded nipple 1 to effect this attachment.

2 is a rotatable plug-cock having a passage 3, which is designed to open and close communication from the funnel-cock to the tank, said plug-cock also having a passage 4, which is designed to register with passages 5 and 6, the former opening to the exterior and the latter to the interior of the tank, whereby when the plug-cock opens communication between the funnel-cock and the interior of the tank the vent-openings 4, 5, and 6 will be in registration for well-understood purposes.

7 is a handle on the plug-cock for operating the same.

8 is a hollow extension or boss having a tapered outer face, through the upper face of which opens a port 9 and through whose

lower face opens a port 9^a. On this tapered projection is mounted the hub 10 of a funnel 11, the same being held in position by a nut secured on the threaded extension of said hollow projection. When the funnel is in an upright position, as shown in full lines, and the plug-cock is rotated to open communication with the interior of the tank and coincidently open the vent-passages, water poured into the funnel will be conducted to the interior of the tank, as will be readily understood.

In practice usually a surplus of water is introduced into the tank, and this is indicated by the water overflowing the vent-opening. When this stage is reached, the funnel is turned from its upright position to its lower position, so that the surplus water in the tank will escape through the port 9^a. When the proper water-level is reached, the plug-cock is turned to close communication between the tank and the exterior, both with respect to the water-passage of the vent-opening.

I am aware that minor changes in the construction, arrangement, and combination of the several parts of my device can be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

In a filler-cock for water-heaters, the combination with a valve-casing, the outer end of which is provided with a conical wall having a threaded projection at one end, said casing having two longitudinally-arranged ports, one of which is provided for the passage of air and water and the other for the passage of water, the first-named port being above the other and extending in a straight line longitudinally through the casing, so that all parts of the port are in alinement with each other, a plug arranged in the casing and intersecting the first-named port and having an opening alining with the opening in the plug below the first-named opening therein, said second-named opening alining with the lower water-port, the casing being provided with a

transverse channel at the end of the lower
port, a conical sleeve fitting over one end of
the casing and having an opening for regis-
tration with oppositely-disposed discharge-
5 ports therein, and a funnel carried by the
sleeve; substantially as described.

In testimony whereof I hereunto affix my

signature, in the presence of two witnesses, this
23d day of September, 1903.

OLIVER LINK.

Witnesses:

THEODORE C. BONÈRE,
LEONARD C. SCHAFER.