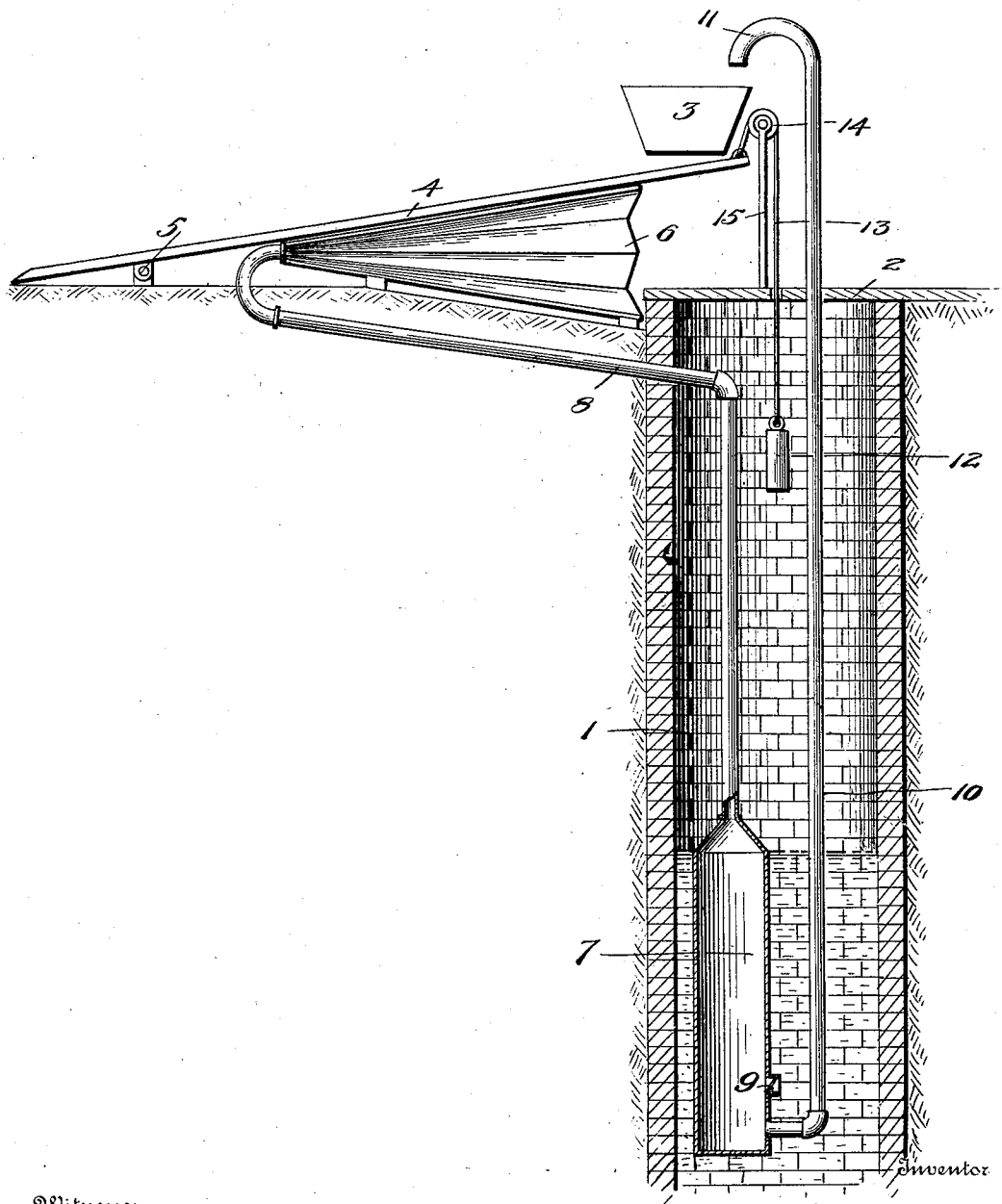
No. 637,242. Patented Nov. 21, 1899.

G. W. EHRMAN.

WATERING TROUGH.

(Application filed Aug. 4, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. EHRMAN, OF MALTBY, WASHINGTON.

WATERING-TROUGH.

SPECIFICATION forming part of Letters Patent No. 637,242, dated November 21, 1899.

Application filed August 4, 1899, Serial No. 726,072. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. EHRMAN, a citizen of the United States, residing at Maltby, in the county of Snohomish and State of Washington, have invented certain new and useful Improvements in Watering-Troughs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention has relation to watering-troughs for animals, and more particularly to that class in which the animal in the act of approaching the trough automatically pumps the supply of water thereto.

The object of the invention is to provide a device of this character which shall be simple of construction, durable in use, and comparatively inexpensive of production and in which compressed air is used as the medium for elevating the water.

With this object in view the invention consists in certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawing I have illustrated my invention in section.

1 denotes the well or other source of water-supply, 2 the cover for the well, and 3 the watering-trough supported above the well.

4 denotes a platform one end of which is pivoted to a standard 5 and is supported upon a bellows 6.

7 denotes the pump-barrel, and 8 a pipe establishing communication between the pump-barrel and the bellows.

9 denotes an inwardly-opening check-valve secured in the side of the barrel 7 to permit water to enter thereto.

10 denotes the outlet-pipe, which is secured to the barrel below the valve 9 and has its upper end projecting through the well-cover and is provided with a spout 11, which discharges the water into the trough.

12 denotes a weight connected to one end of a cord 13, that passes around a pulley 14, journaled in a support 15. The other end of the cord is attached to the upper end of the platform 4. This weight serves to distend or inflate the bellows.

In use animals to reach the watering-trough must walk upon the platform 4. In doing this the bellows is compressed, thus compressing the air within the barrel 7 and forcing the water up through the pipe 10 out into the trough 3. When the weight of the animal is removed from the platform, the bellows will be distended or inflated by the weight 12, thus removing the pressure upon the water within the barrel 7 and permitting any water that may be in the pipe 10 to descend and escape into the barrel, as well as allowing water from the well to enter the barrel through the valve 9. By draining the pipe 10 there will be nothing to freeze and prevent the operation of the device.

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

In a device of the character described, the combination with the trough, of a pivoted platform, a pump-barrel having a valved inlet, an air-compressor located under and adapted to be actuated by the platform, a pipe establishing communication between the compressor and the barrel, an outlet-pipe communicating with the barrel and discharging into the trough, and means for elevating the platform to distend or inflate the bellows, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEO. W. EHRMAN.

Witnesses:
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