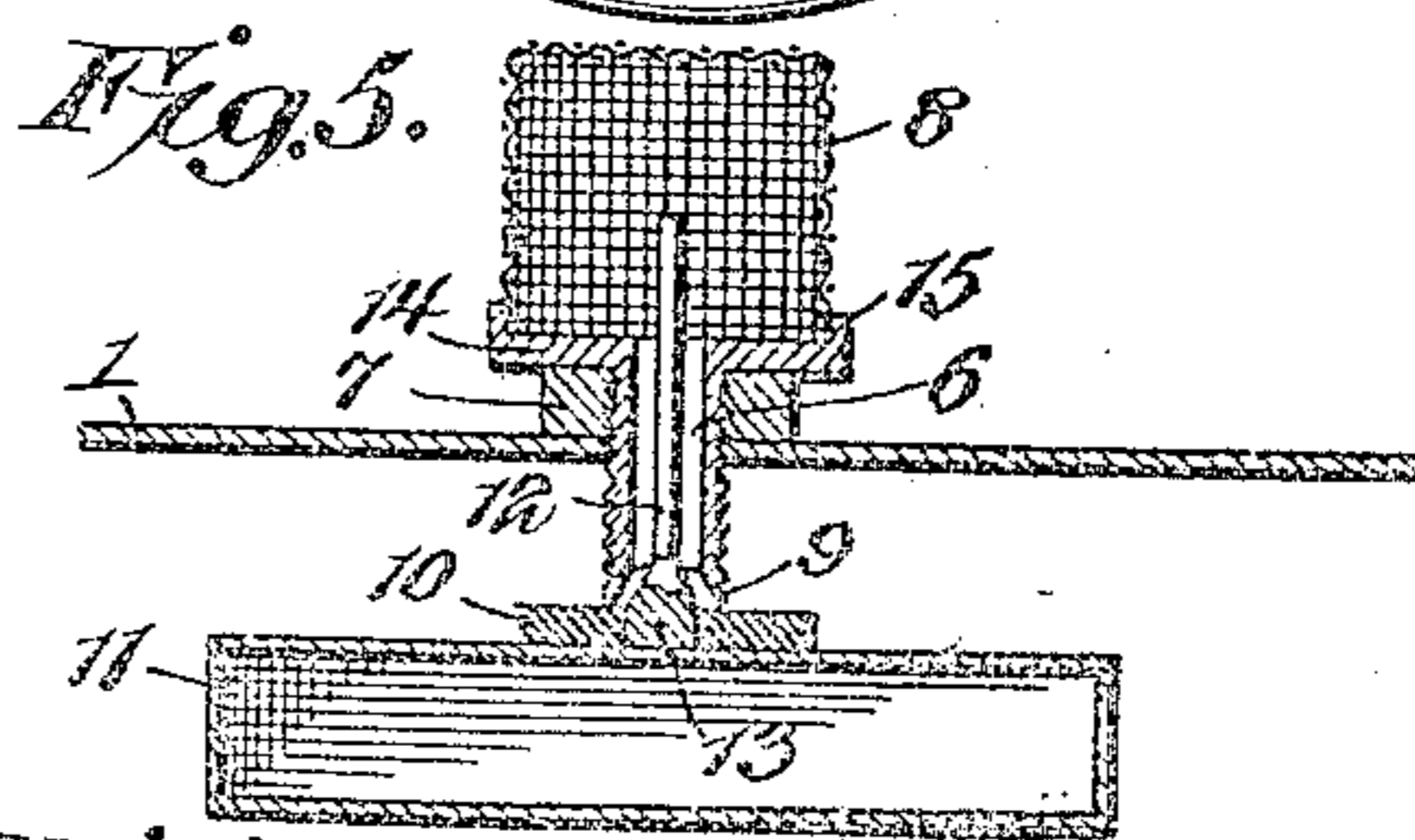
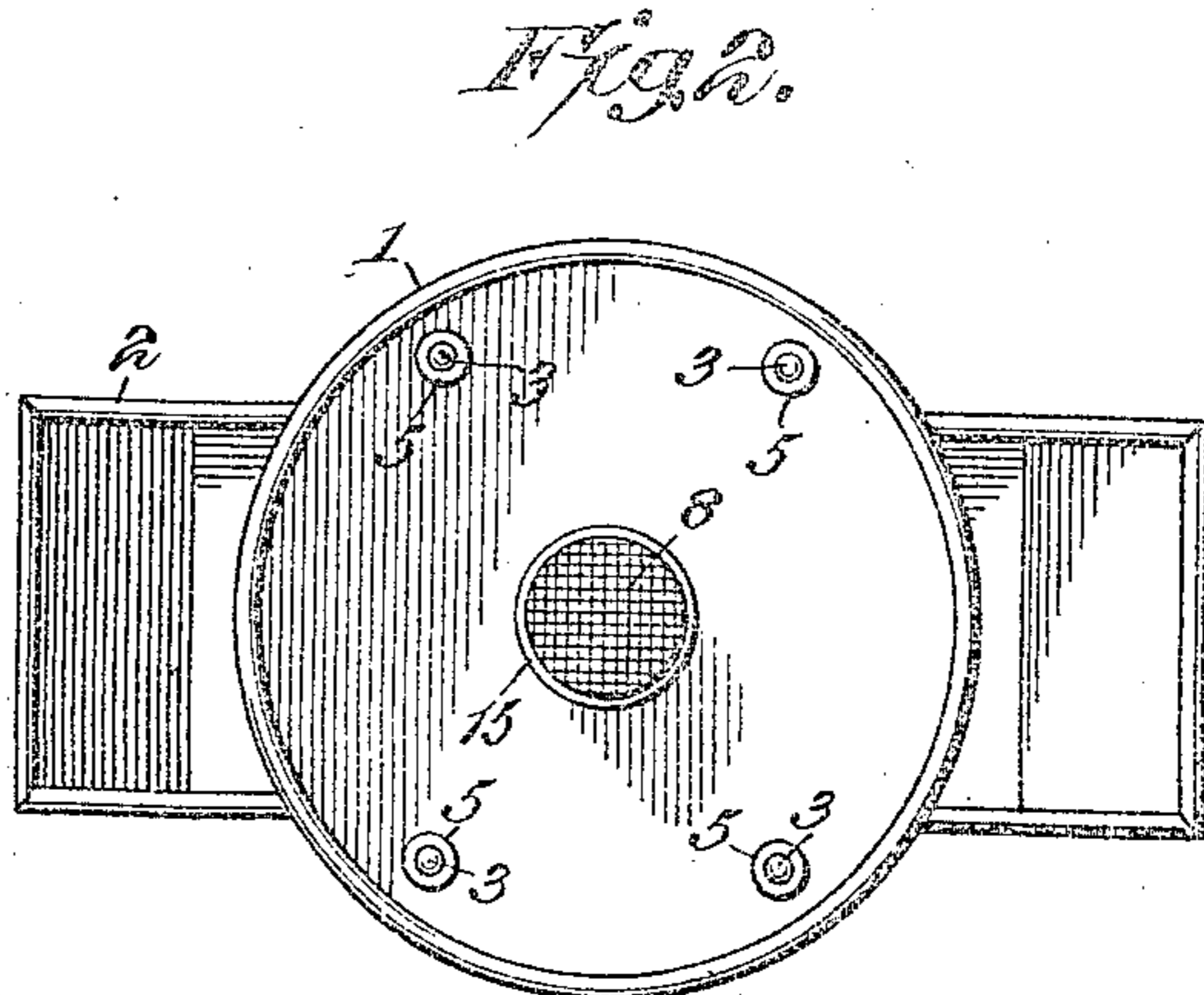
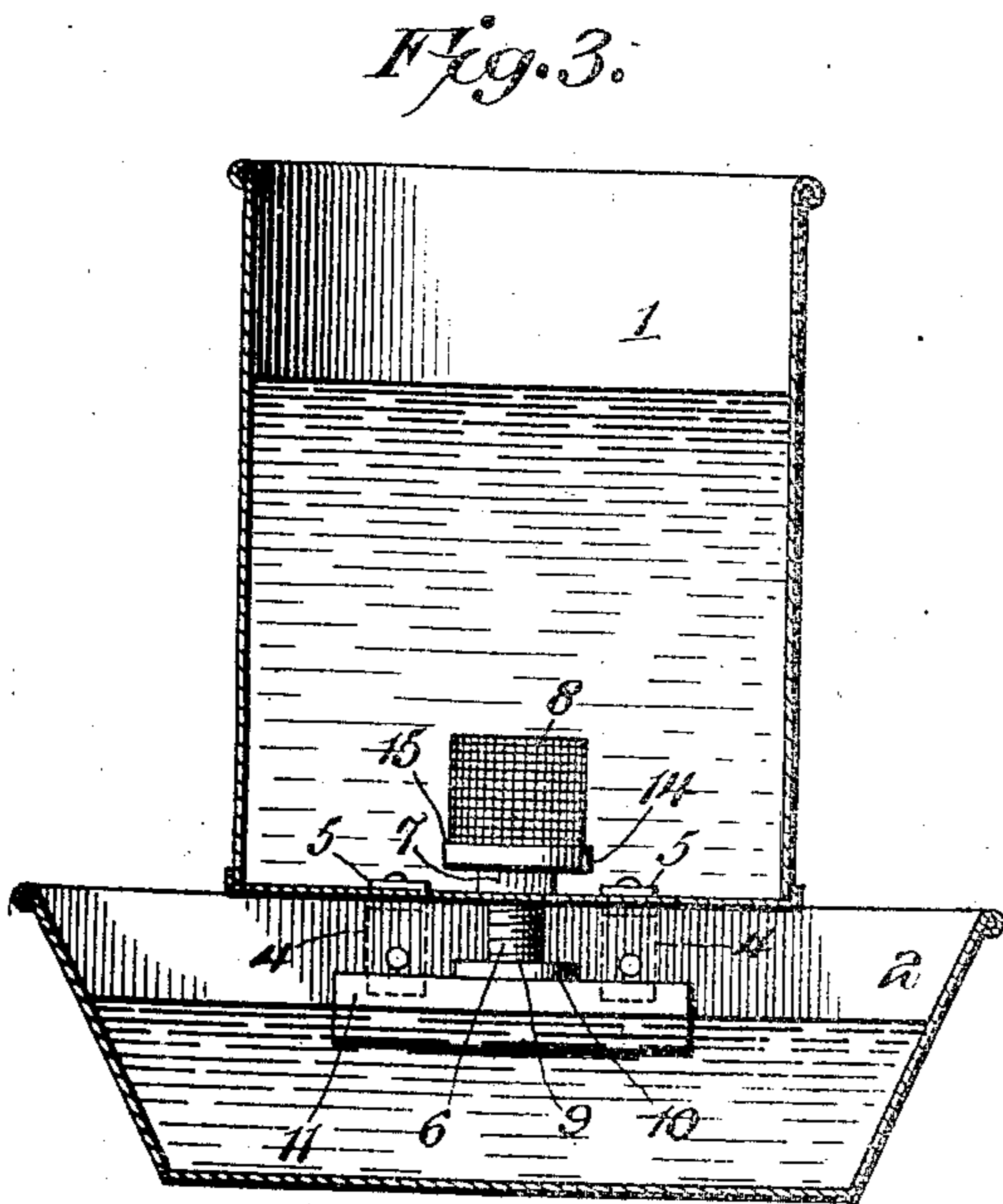
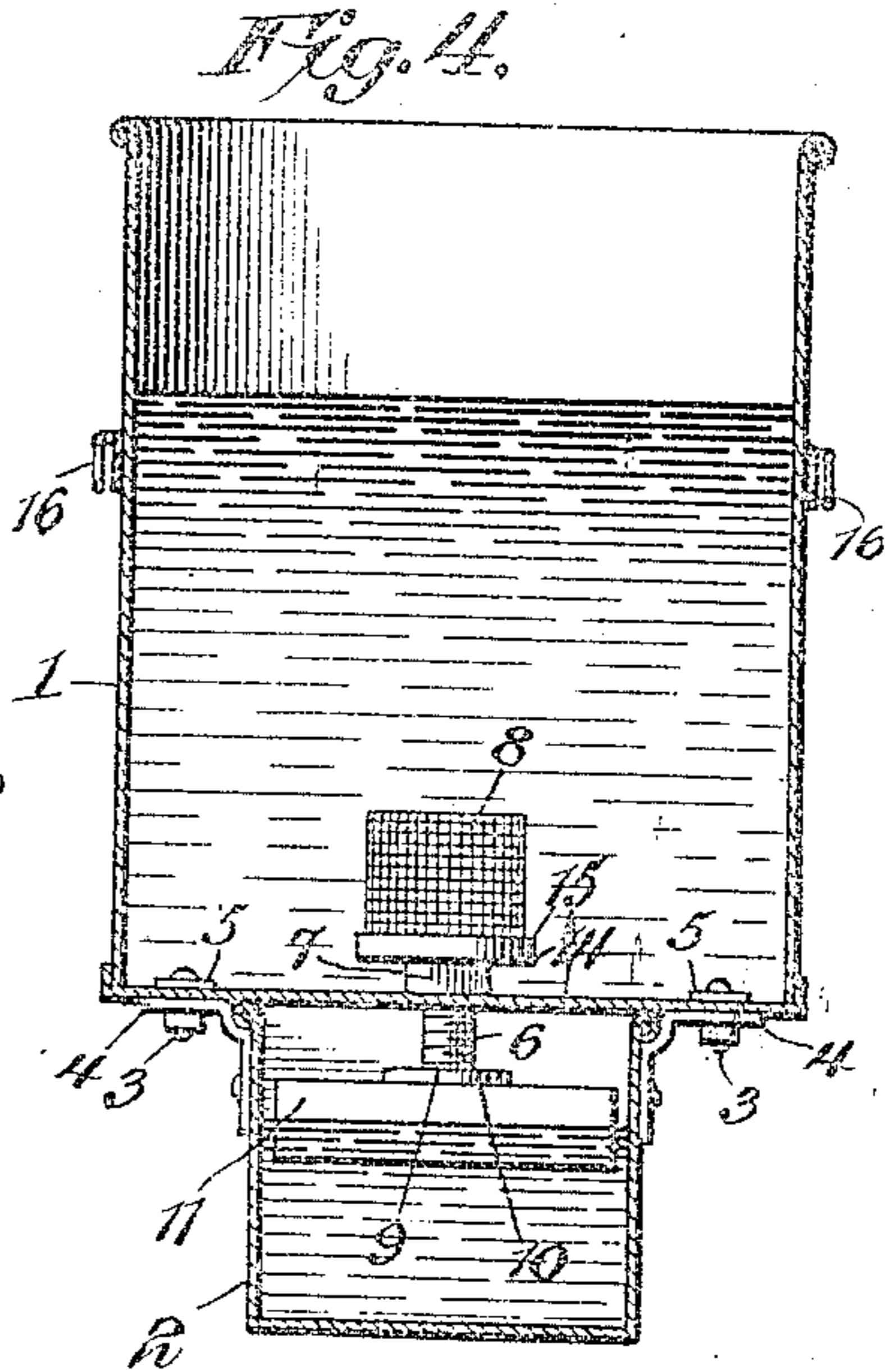
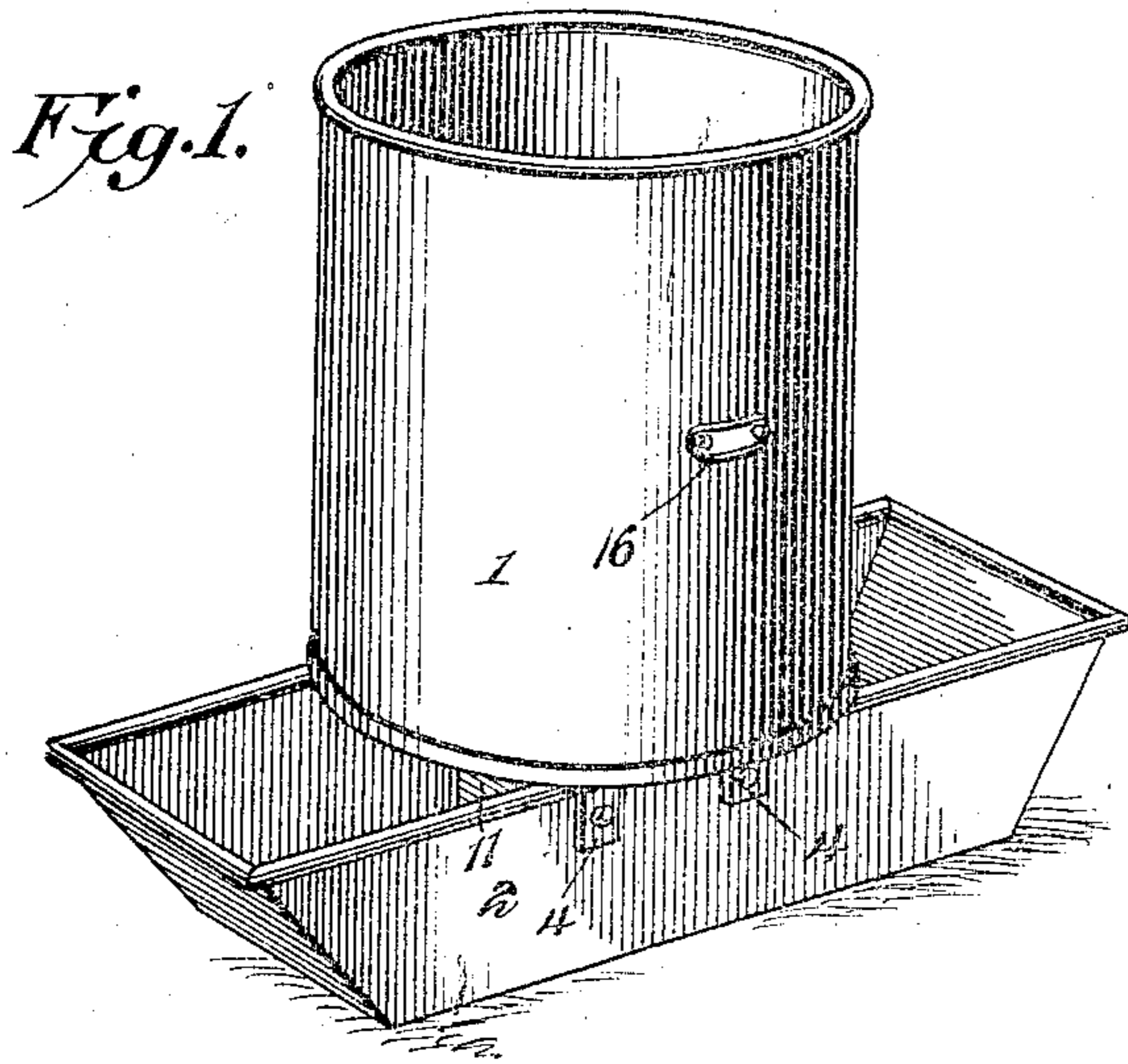


898,716.

Patented Sept. 15, 1908.



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# UNITED STATES PATENT OFFICE.

PHILIP BERNARD, OF JEFFERSON, SOUTH DAKOTA.

## HOG-WATERER.

No. 898,716.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed May 26, 1906. Serial No. 318,920.

*To all whom it may concern:*

Be it known that I, PHILIP BERNARD, a citizen of the United States, residing at Jefferson, in the county of Union and State of South Dakota, have invented a new and useful Hog-Waterer, of which the following is a specification.

The invention relates to improvements in automatic watering troughs.

10 The object of the present invention is to improve the construction of automatic watering troughs, and to provide a simple, inexpensive and efficient one of great strength and durability designed particularly for use  
15 as a hog waterer, and adapted to maintain the water in the trough at a predetermined level, and capable of automatically feeding water to the trough as rapidly as it is consumed.

20 A further object of the invention is to provide a device of this character, having adjustable means for controlling the flow of water, and also the depth of the same within the trough.

25 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claim hereto  
30 appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claim, may be resorted to without departing from the spirit or sacrificing  
35 any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a hog waterer constructed in accordance with this invention. Fig. 2 is a plan view. Fig. 3 is a longitudinal sectional view.  
40 Fig. 4 is a transverse sectional view. Fig. 5 is an enlarged sectional view illustrating the construction of the means for controlling the flow of water from the tank to the trough.

45 Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a superimposed cylindrical tank, mounted upon a substantially oblong trough 2, and secured to the same by means  
50 of bolts 3, or other suitable fastening devices, which pierce the bottom of the tank and extend through lugs 4, that project laterally from opposite sides of the trough. The tank and trough are constructed of galvanized  
55 sheet metal, or other material, and the laterally extending lugs 4, which are rigid with

the sides of the trough, are preferably formed by L-shaped pieces, riveted or otherwise secured to the trough at the upper edge thereof, as clearly illustrated in Fig. 4 of the drawing. 60 The bottom of the tank is horizontal, and gaskets 5 of rubber, or other suitable material, are provided for preventing the bottom from leaking at the bolt openings. The lugs 4 may be of any desired number, and any  
65 other suitable means may be provided for securing the tank to the laterally extending lugs of the trough. The bolts permit the trough and the tank to be readily separated, when desired. 70

The trough is provided with a flat bottom, and it has inclined ends, and it extends diametrically from opposite sides of the tank to permit hogs to obtain access to its contents. The water from the tank flows into the  
75 trough through an outlet, consisting of an adjustable nipple 6, piercing the bottom of the tank at the center thereof, and engaging the threaded opening of a nut 7, which is soldered or otherwise secured to the upper face  
80 of the bottom of the tank. The nipple, which extends above and below the bottom of the tank, supports a strainer 8, and its lower edge 9 is interiorly beveled, and is engaged by a gasket 10 of a float 11, which is  
85 arranged within the trough, and which is adapted to automatically shut off the flow of water. The float, which is hollow, is preferably constructed of sheet metal, and the gasket 10, which may be made of rubber or any  
90 other suitable material, presents a yieldable surface to the lower beveled end of the nipple, which is partially embedded in such surface, when the valve, formed by the float and the gasket, is closed. When the water  
95 within the trough is consumed by the hog, the float drops and opens the valve and thereby permits the water to flow from the tank into the trough. As soon as the water within the trough rises sufficiently to carry the  
100 yieldable gasket of the float into engagement with the lower end of the nipple, the flow of water will be shut off. The depth of the water within the trough is controlled by the nipple, which may be adjusted to cause it to  
105 depend from the bottom of the tank a greater or less distance, as desired, and the nipple may be constructed of any desired length to afford the necessary adjustment. The float is provided with a vertical stem or pin 12,  
110 which extends through the nipple or tube, and which maintains the float in proper oper-

ative relation with the depending nipple. The lower end 13 of the pin or stem is enlarged to form a head, which is soldered or otherwise secured to the top of the float.

5 The head is tapered upwardly from the upper face of the gasket 10, and is adapted to center the float with relation to the depending nipple. The strainer 8, which is carried by the nipple or tube, is preferably cylindrical, but it may be of any other desired configuration, and it is adapted to prevent moss, or other accumulation, from passing through the nipple and collecting between the lower end of the same and the float, and thereby

15 causing a leakage of water from the tank to the trough. The bottom 14 of the strainer is preferably formed integral with the upper end of the nipple, and it consists of a horizontal disk or flange provided with an upwardly

20 projecting annular rim 15, which embraces the lower edges of the walls of the strainer. The walls and top of the strainer are preferably constructed of wire gauze, as shown, but they may be made of any other suitable

25 material, as will be readily apparent.

The hog waterer is portable, and the tank is provided at opposite sides with suitable

handles 16 for enabling it to be readily carried from one place to another.

Having thus fully described my invention, 30 what I claim as new and desire to secure by Letters Patent, is:—

The combination of a trough, a tank supported by the trough, a nut fixed to the bottom of the tank, a threaded tube extending 35 through and engaging the threads of the nut, whereby the tube is adjustably and rigidly connected with the bottom of the tank and is held against upward and downward movement, a float, an elastic gasket seated on the 40 float and arranged to engage the lower end of the tube to cut off the flow of water from the tank to the trough, and a stem mounted on the float and piercing the elastic gasket to retain the latter in place and extending into 45 the tube for guiding the float.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

PHILIP BERNARD.

Witnesses:

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F. MELVIN.