

A. C. CLARK.  
 FOUNTAIN SPITTOON.  
 APPLICATION FILED AUG. 21, 1905.

923,946.

Patented June 8, 1909.

2 SHEETS—SHEET 1.

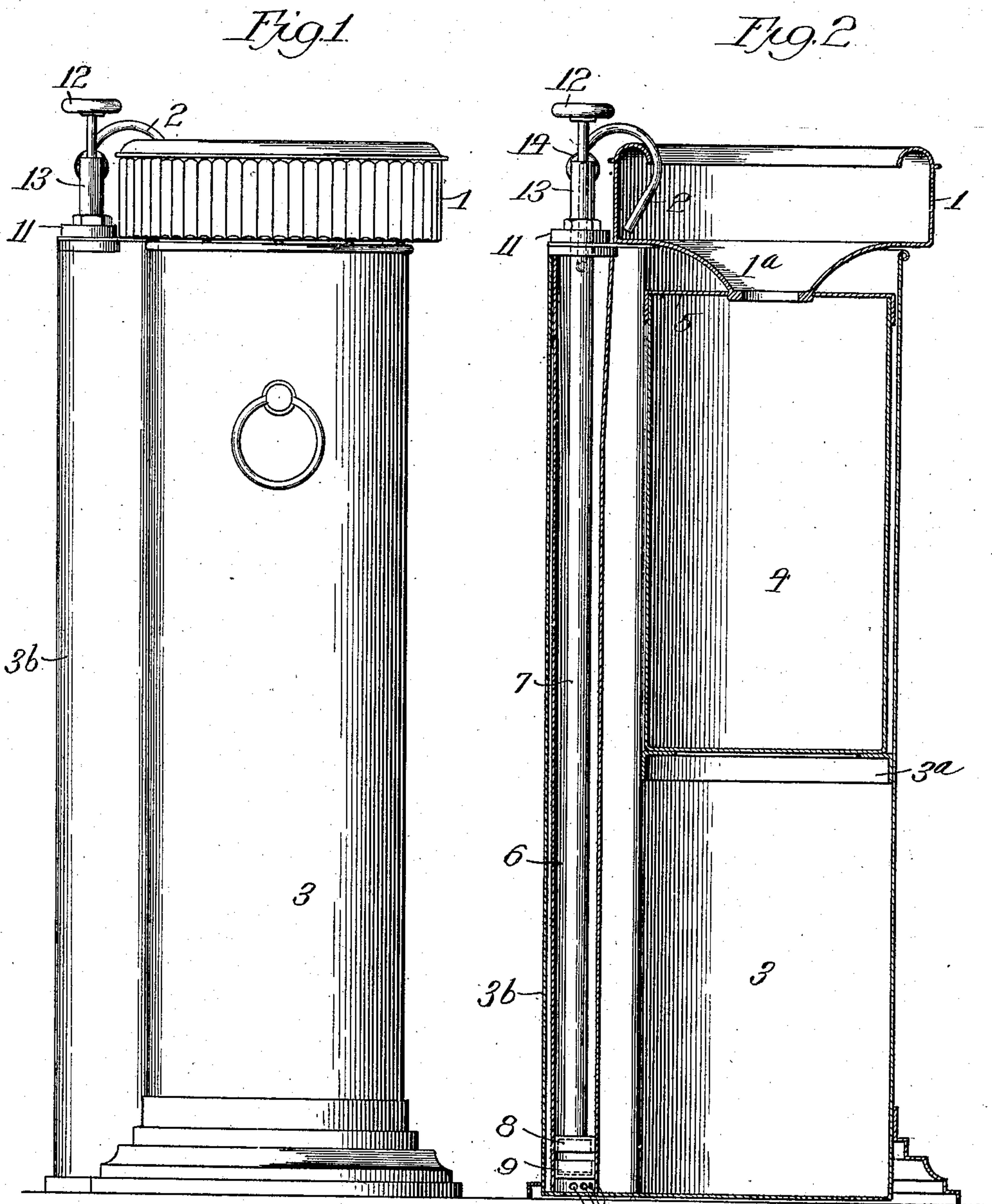
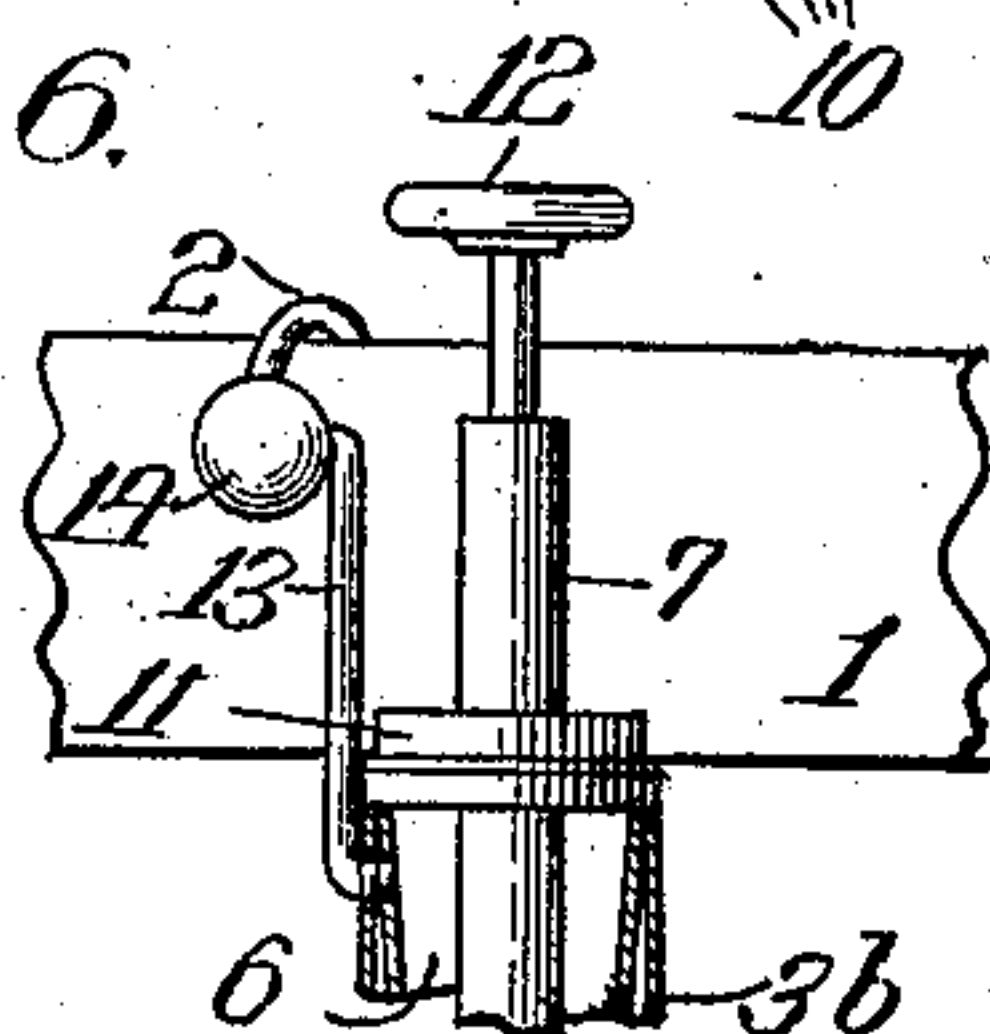


Fig. 6.



Witnesses  
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2 SHEETS—SHEET 2.

Fig. 3.

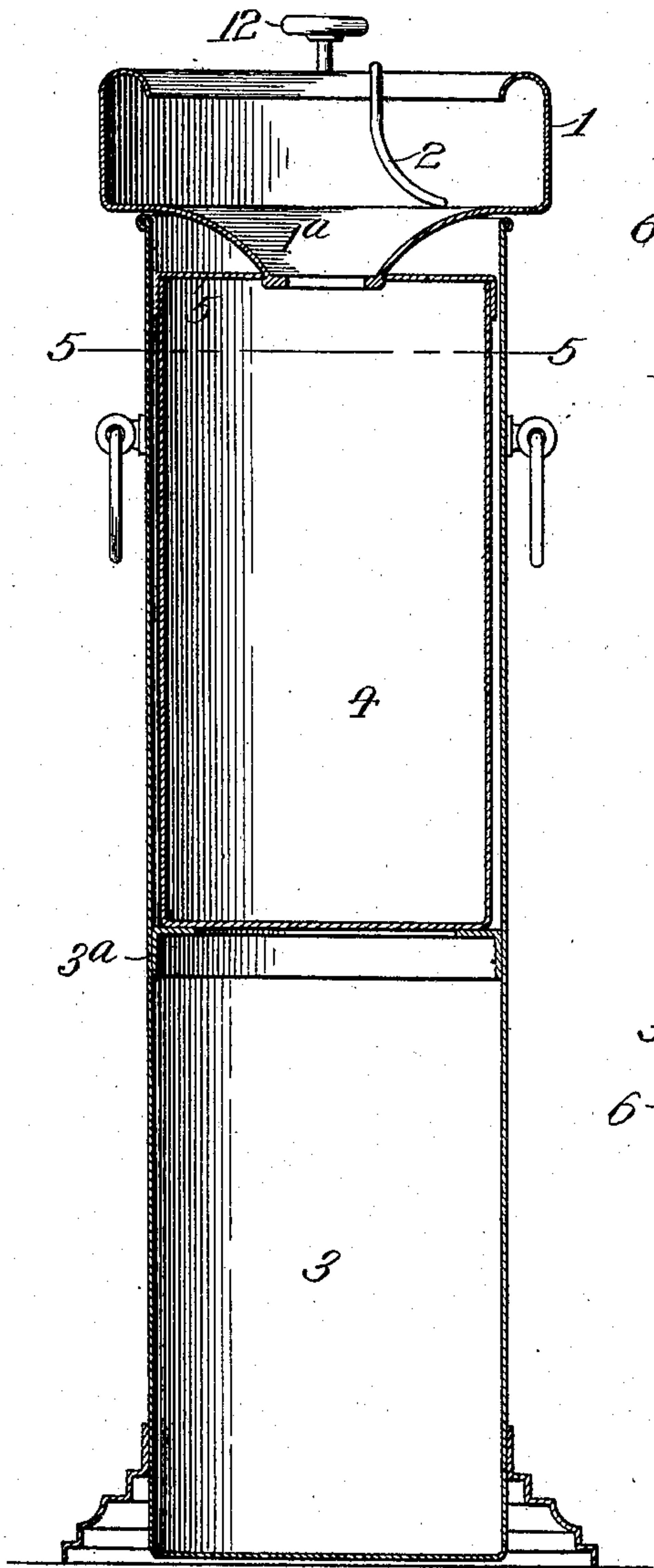


Fig. 4.

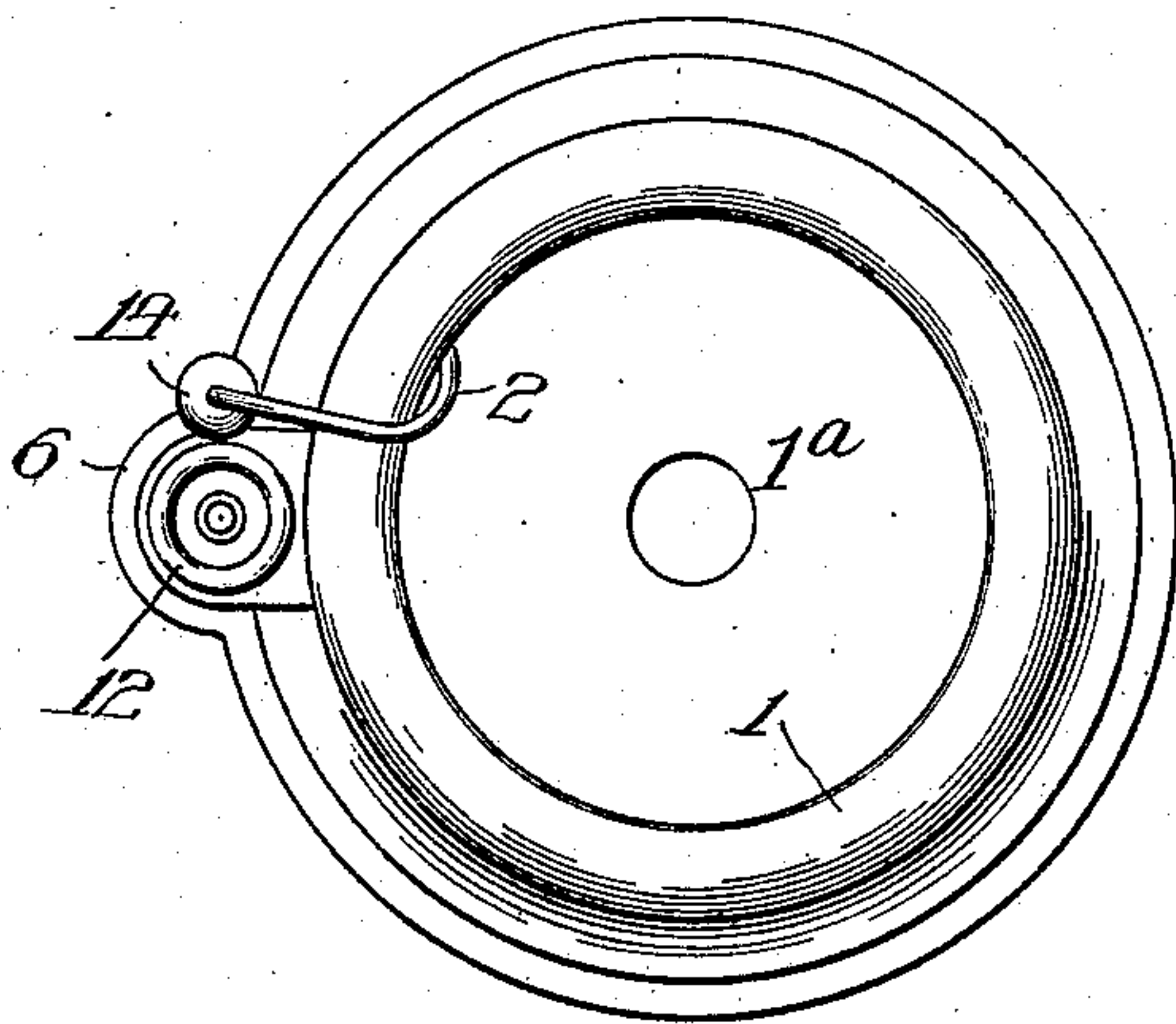


Fig. 5.

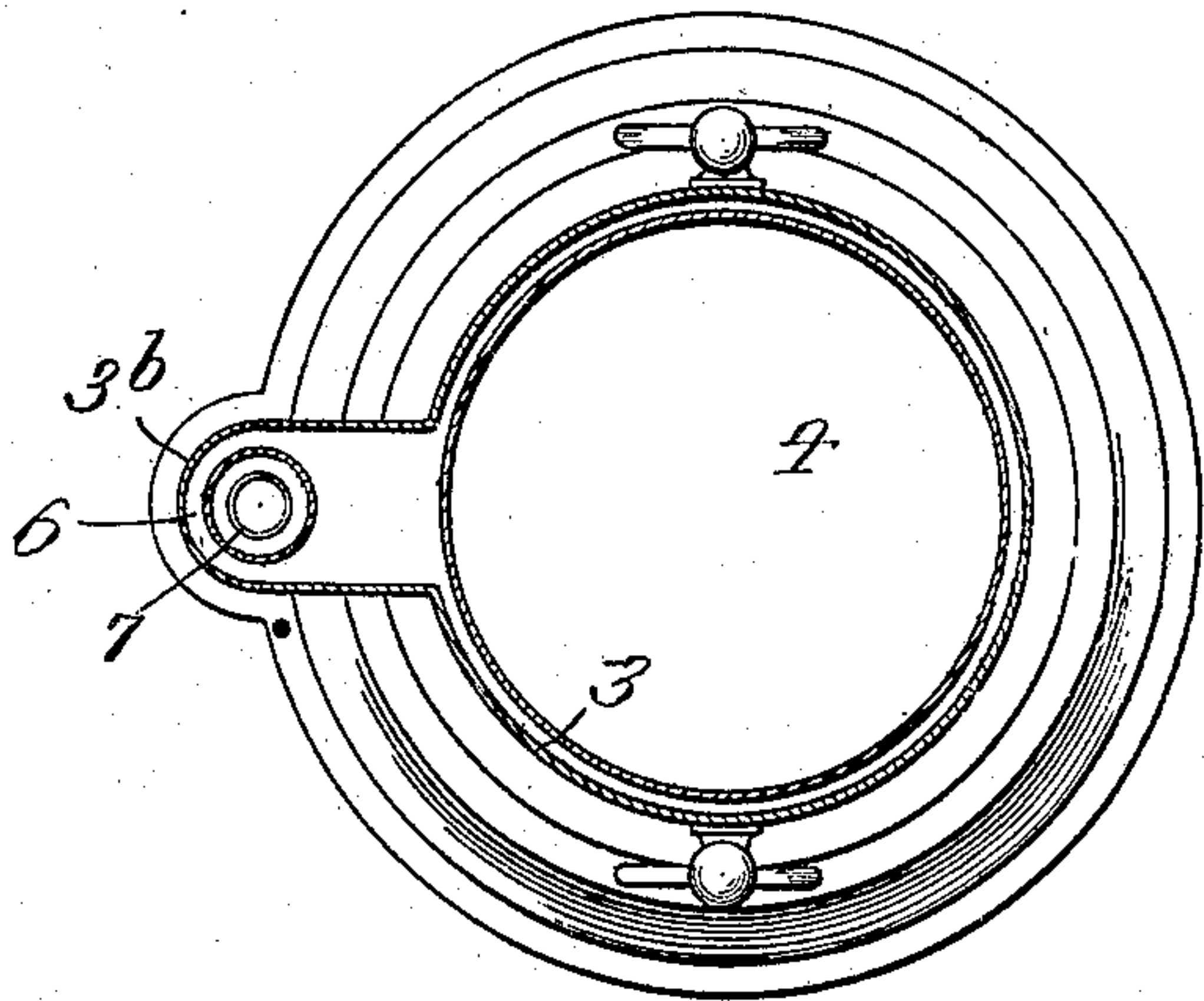
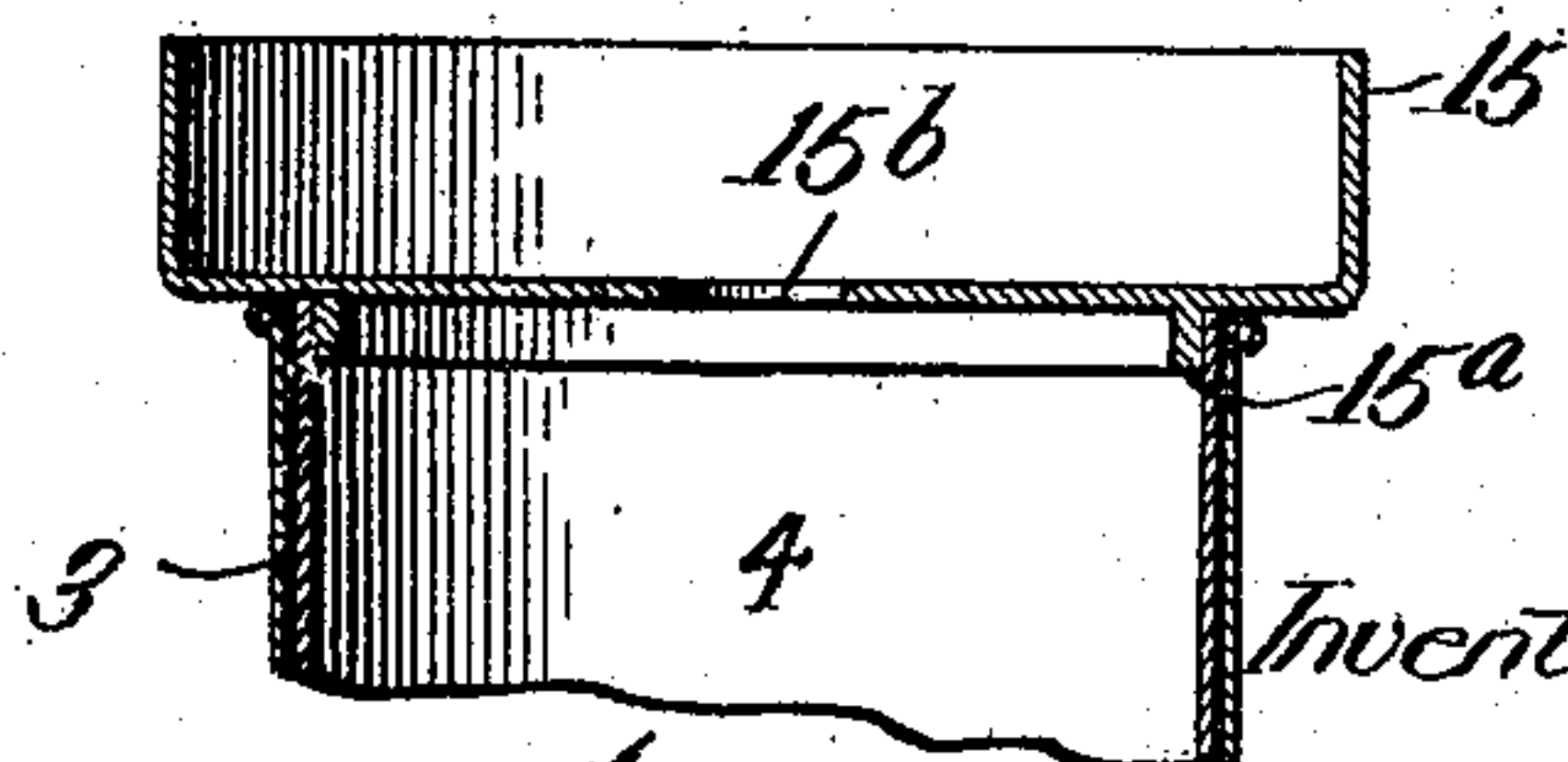


Fig. 7.



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# UNITED STATES PATENT OFFICE.

ALBERT C. CLARK, OF CHICAGO, ILLINOIS.

## FOUNTAIN-SPITTOON.

No. 923,946.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed August 21, 1905. Serial No. 275,046.

*To all whom it may concern:*

Be it known that I, ALBERT C. CLARK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fountain-Spittoons, of which the following is a specification.

My invention relates to what are commonly known as fountain spittoons which are used by dentists, physicians, surgeons, and the like, and the object of my invention is to provide a spittoon of this character provided with its own means for flushing the same so that the spittoons of the type described may be operated without a water main connection.

My present form of spittoon is particularly applicable for use in places where a water main connection is not available or where it is impossible or impracticable to lead such a connection to the spittoon.

The various features of advantage and utility of my new construction and arrangement of fountain spittoon will be apparent from the description hereinafter given.

In the drawings, Figure 1 is a side elevation of one embodiment of my invention; Fig. 2 a central sectional elevation thereof; Fig. 3 a similar section but at right angles to that of Fig. 2; Fig. 4 a plan view of the spittoon and reservoir, Fig. 5 a section on the line 5—5 of Fig. 3; Fig. 6 a detail of the pump handle and reversible joint; and Fig. 7 a detail view illustrating a modification.

Referring to the fountain spittoon herein illustrated, the same comprises a spittoon bowl 1, which may be of the usual and well known construction and made of any suitable material and dimensions. In the present instance, however, the same is an ordinary single bowl, although, as will be understood, a spittoon of the double bowl type known as the Clark fountain spittoon made substantially as shown in Hurlbut Reissued Patent No. 11,696, dated September 28th, 1898, may be employed. The bowl is provided with a discharge pipe 2, as usual in fountain spittoons of this character and the same receives water from a source and in a manner hereinafter explained.

In the present instance, the spittoon bowl rests upon and is supported by the upper edges of a cylindrical or tubular reservoir 3 which is arranged to set upon the floor or other support. This reservoir is of any suitable dimensions but in practice the same is

made of a proper height so as to bring the spittoon bowl within easy reach of the patient and moreover, the same is preferably made of a predetermined capacity for a reason hereinafter explained.

Within the reservoir is arranged a cylindrical receptacle or bucket 4 which is supported in suitable manner, so as to be positioned in the upper portion of the reservoir. In the present instance, this bucket is supported by an annular shelf or bracket 3<sup>a</sup> secured to the inner wall of the reservoir at a point intermediate its length, although any other suitable means of supporting such bucket may be adopted. The bucket is of slightly less diameter than the reservoir, so as to be easily insertible and removable from the latter. By preference, the top of the bucket is closed by a cap 5 except for a central opening arranged to accommodate the discharge from the bowl 1. In the present instance and by preference, the bowl is formed with a funnel-shaped bottom 1<sup>a</sup>, which projects or extends through the central opening in the cap 5 for the proper discharge from the bowl into the bucket, and for centering the bowl.

The reservoir is arranged to contain fresh water, while the bucket is arranged to contain waste water. In the present instance, which represents a compact arrangement of the parts, it is designed that the reservoir shall be supplied with a charge of fresh or clean water just sufficient to fill the bucket after flushing operations, as hereinafter described. To this end, the reservoir is charged with water to a point about half way of its height, that is to substantially the bottom of the bucket 4, with the result that there can be no overflowing or flooding of the bucket, inasmuch as the supply of fresh water will be exhausted by the time that the bucket is full.

The spittoon, which may be termed a reservoir fountain spittoon, is provided with means under the control of the operator for causing a flow or discharge of fresh water from the lower portion of the reservoir to the bowl, from whence it escapes to the bucket after flushing the bowl. In the present instance, this means comprises a hand pump arranged at one side and longitudinally of the reservoir, such pump communicating at its lower end with the reservoir and at its upper end with a discharge pipe 2.

As herein shown, the pump comprises a



cylinder portion 6 which may be in a lateral extension proceeding from the reservoir 3 or may be formed in a separate or individual cylinder, as will be obvious. In the present instance, the pump cylinder is arranged within the extension 3<sup>b</sup> of the reservoir, although the reservoir might be of such diameter to envelop the pump cylinder without providing an extension. Any suitable construction of lift pump may be adopted, the same comprising in the present instance, as more or less diagrammatically shown, a plunger rod 7, plunger 8 and valve 9, it being understood that the pump cylinder communicates with the lower end or bottom of the reservoir through lateral passages or ports 10. The plunger rod extends through a stuffing box 11 at the upper end of the pump cylinder and is provided with a handle 12. The discharge pipe is connected with a pipe 13 from the pump cylinder in suitable manner, (Fig. 6) preferably by a reversible joint 14, so that when desired the pipe may be swung clear of the bowl to permit the latter to be removed. It will be understood that whenever it is desired to flush the bowl, the operator simply reciprocates the plunger rod a few times, whereupon clean water is supplied to the bowl through the pipe 2 and the latter thereby flushed, the water discharging from the bowl into the bucket below. When the bucket has been filled with waste water, the discharge pipe or nozzle 2 is swung clear of the bowl, the latter is then removed and the bucket thereupon bodily removed from the reservoir and emptied. The reservoir is then filled with fresh water sufficient to again charge or fill the bucket, whereupon the latter is inserted in place within the reservoir, the cap 5 put in place and the bowl and discharge pipe 2 restored to their normal relative positions, as indicated in the drawings.

While it is not essential that the cap 5 be employed, yet it is preferred and desirable, as it possesses several advantages or functions, chief among which may be mentioned the function of centering the bowl whose funnel-shaped portion 1<sup>a</sup> extends through the central opening, besides which such cap closes the contents of the bucket from view, which might be objectionable to the patient, especially when a glass bowl is employed.

By the use of my invention I am enabled to provide a spittoon of the fountain or flushing type which can be used without any water connections whatsoever, so that a most satisfactory and efficient fountain spittoon can be supplied to those dentists and doctors who have found the usual fountain spittoon to be impossible or impracticable of use, owing either to the expense or impossibility of making water works or water main connections.

While, as hereinbefore suggested, the vari-

ous cooperating parts may be otherwise arranged or associated, it is preferred to employ the compact arrangement herein shown not only because of economy of space and because of appearance, but also because of the fact that the nested or self-contained arrangement of the bucket and reservoir enable me to guard against the possibility of overflowing or flooding the bucket, inasmuch as the presence of the bucket within the reservoir prevents a charge or supply of water in the latter greater than the capacity of the bucket. As already stated, the highest water level in the reservoir should be a little below the bottom of the bucket, but if the reservoir should be filled higher than this water level, the fact would be demonstrated to the operator when the bucket is inserted. Furthermore, while I have herein shown and described a hand pump as the means for forcing or supplying the water from the reservoir to the bowl through the discharge pipe, yet it will be understood that my invention in its broader aspect contemplates the employment of any means accomplishing the same result.

As hereinbefore stated, the employment of the cap 5 covering the top of the removable receptacle or bucket is desirable and preferable, but not essential and as also hereinbefore stated, the bowl may partake of different forms. To this end, as illustrated in the modification, Fig. 7, the bowl 15 may have a substantially flat bottom, instead of the funnel-shaped bottom illustrated in Figs. 2 and 3 and the same may be provided on its lower side with an annular depending flange 15<sup>a</sup> arranged to fit preferably within the bucket 4, whereby the bowl is properly centered and kept in place. This bowl by preference, as illustrated in Fig. 7, rests upon the upper edges of both the reservoir and the bucket, but this is not essential.

I claim:

1. A fountain spittoon comprising a reservoir closed and imperforate as to its bottom and sides, but open at its top, the lower portion thereof serving as a receptacle to contain a supply of water, a waste receptacle arranged within the upper portion of the reservoir and above its water level, a bowl supported above the waste receptacle and adapted to discharge therein, and means for lifting the water from the reservoir to the bowl and for discharging the water into the latter in a manner to flush the same.

2. A fountain spittoon comprising a reservoir closed and imperforate as to its bottom and sides, but open at its top, the lower portion thereof serving as a receptacle to contain a supply of water, a waste receptacle arranged within the upper portion of the reservoir and above its water level, said receptacle being removable, a bowl arranged to rest upon and to be supported by the reservoir in



position to discharge into such receptacle, and means for lifting the water from the reservoir to the bowl and for discharging the water into the latter in a manner to flush the same.

3. A fountain spittoon comprising a reservoir closed and imperforate as to its bottom and sides, but open at its top and adapted to contain a supply of water, a waste receptacle arranged within the upper portion of the reservoir and above its water level, a supporting flange in the interior of the reservoir intermediate its length to support the waste receptacle, a bowl supported above such receptacle and adapted to discharge thereinto, and means for lifting the water from the reservoir to the bowl.

4. A fountain spittoon comprising a bowl, a reservoir whose lower portion serves to hold a supply of water, a receptacle arranged to receive the discharge from the bowl and fitted closely but removably within the upper portion of the reservoir, means for supporting the receptacle in a position at the upper end of the reservoir, and means for supplying water from the reservoir to the bowl and for discharging the same thereinto in a manner to flush the bowl.

5. A fountain spittoon comprising a bowl, a reservoir for a supply of water, a receptacle arranged to receive the discharge from the bowl and fitted closely but removably within the reservoir, means for supporting the receptacle in a position at the upper end of the reservoir, and means for supplying water from the reservoir to the bowl, the capacity of the reservoir below the receptacle substantially equaling the capacity of the latter.

6. A fountain spittoon comprising a reservoir whose lower portion serves to hold a supply of water, a waste water receptacle removably arranged therein, a bowl removably supported at the top of the reservoir and arranged to discharge into said receptacle, and means for supplying water from the reservoir to the bowl in a manner to flush the latter.

7. A fountain spittoon comprising a reservoir whose lower portion serves to hold a supply of water, a waste water receptacle removably arranged therein, a bowl removably supported at the top of the reservoir, and arranged to discharge into said receptacle, a pump for forcing the water from the reservoir to the bowl and a nozzle on the

pump discharge for drawing the water at an angle to the bowl to flush the latter.

8. A fountain spittoon comprising a reservoir for a supply of water, a waste water receptacle arranged therein, a bowl supported at the top of the reservoir and arranged to discharge into said receptacle, means including a closure for the receptacle for centering the bowl with respect thereto, and a pump for forcing the water from the reservoir to the bowl.

9. A fountain spittoon comprising a reservoir whose lower portion serves to hold a supply of water, a waste water receptacle removably arranged therein, a bowl removably supported at the top of the reservoir and arranged to discharge into said receptacle, and a pump arranged longitudinally of the reservoir and adapted to communicate at its top and bottom with the bowl and reservoir, respectively, said pump having a nozzle arranged to swing clear of the bowl.

10. A fountain spittoon comprising a bowl, a reservoir which has imperforate sides and whose lower portion serves to hold a supply of water, a removable bucket or receptacle arranged below the bowl and within the reservoir, a cap fitting upon said bucket and having an opening to receive discharge from the bowl, and means for supplying water from the reservoir to the bowl and for drawing the water thereinto in a manner to flush the same.

11. A fountain spittoon comprising a reservoir for a supply of water, a bowl having a funnel-shaped bottom with a discharge opening, a removable bucket or receptacle arranged below the bowl and within the reservoir, a cap fitting upon said bucket having a central opening to receive the funnel-shaped bottom of the bowl, and means for supplying water from the reservoir to the bowl.

12. A fountain spittoon comprising a reservoir for a supply of water, a bowl having a funnel-shaped bottom with a discharge opening, a removable bucket or receptacle arranged below the bowl and within the reservoir, said bowl resting upon the upper end of the reservoir, and a cap fitting upon said bucket and having an opening to receive the funnel-shaped bottom of the bowl.

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Witnesses:

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