

(No Model.)

M. L. SARGENT.  
APPARATUS FOR DISTILLING WATER.

No. 562,326.

Patented June 16, 1896.

Fig. 1.

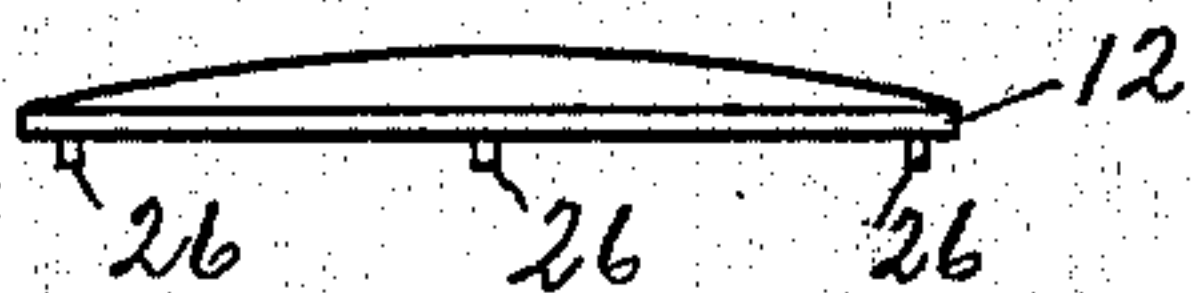


Fig. 2.

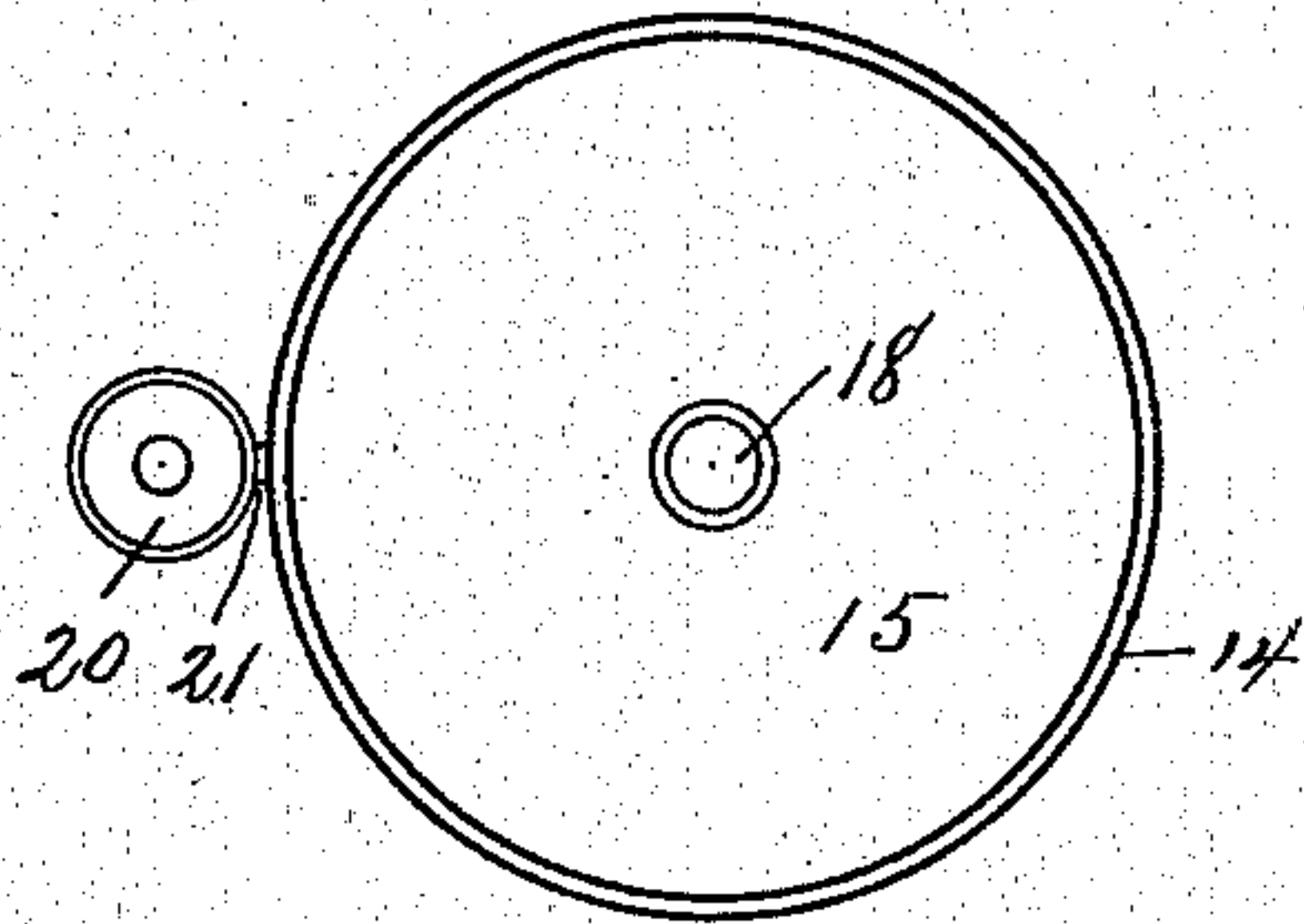


Fig. 3.

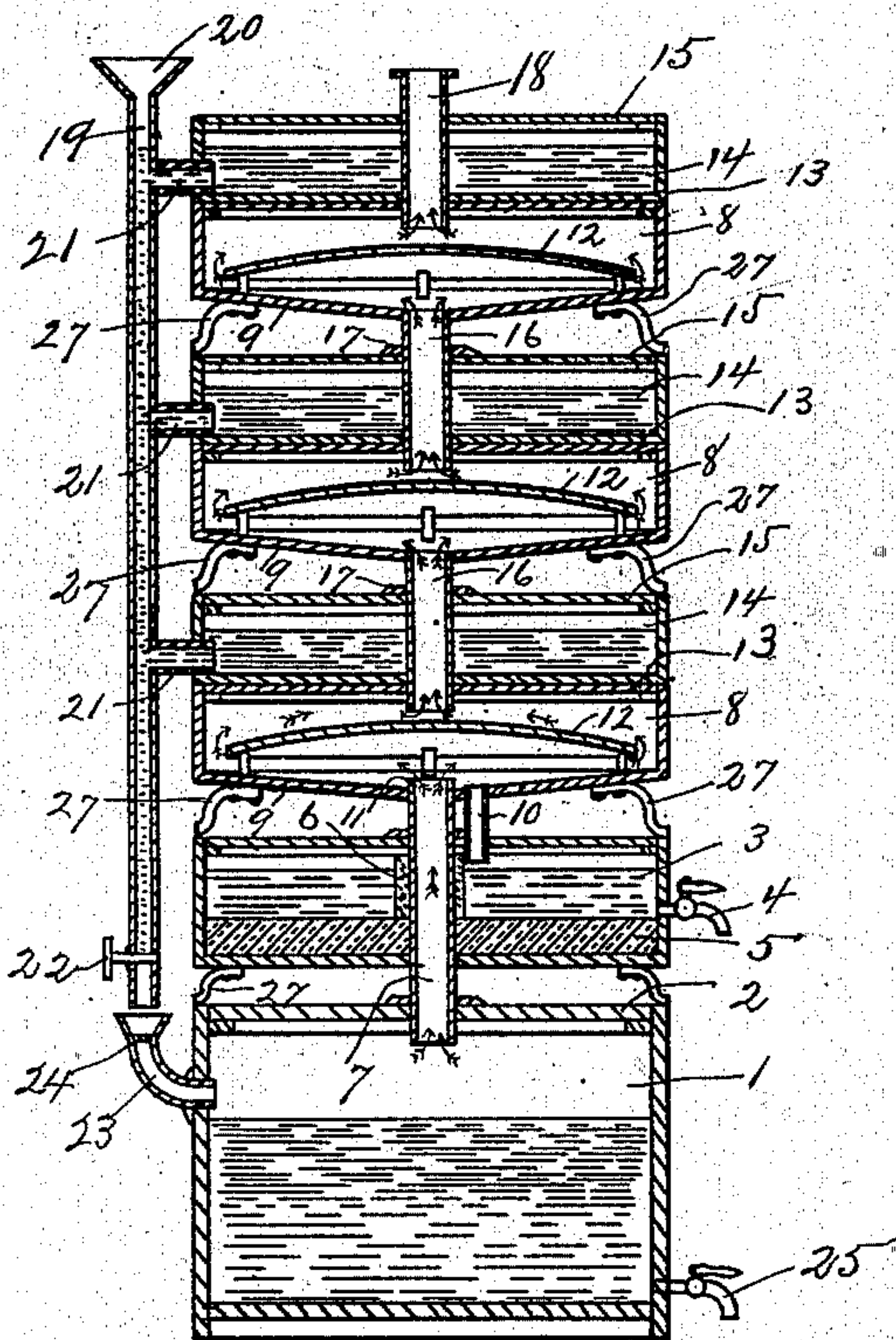
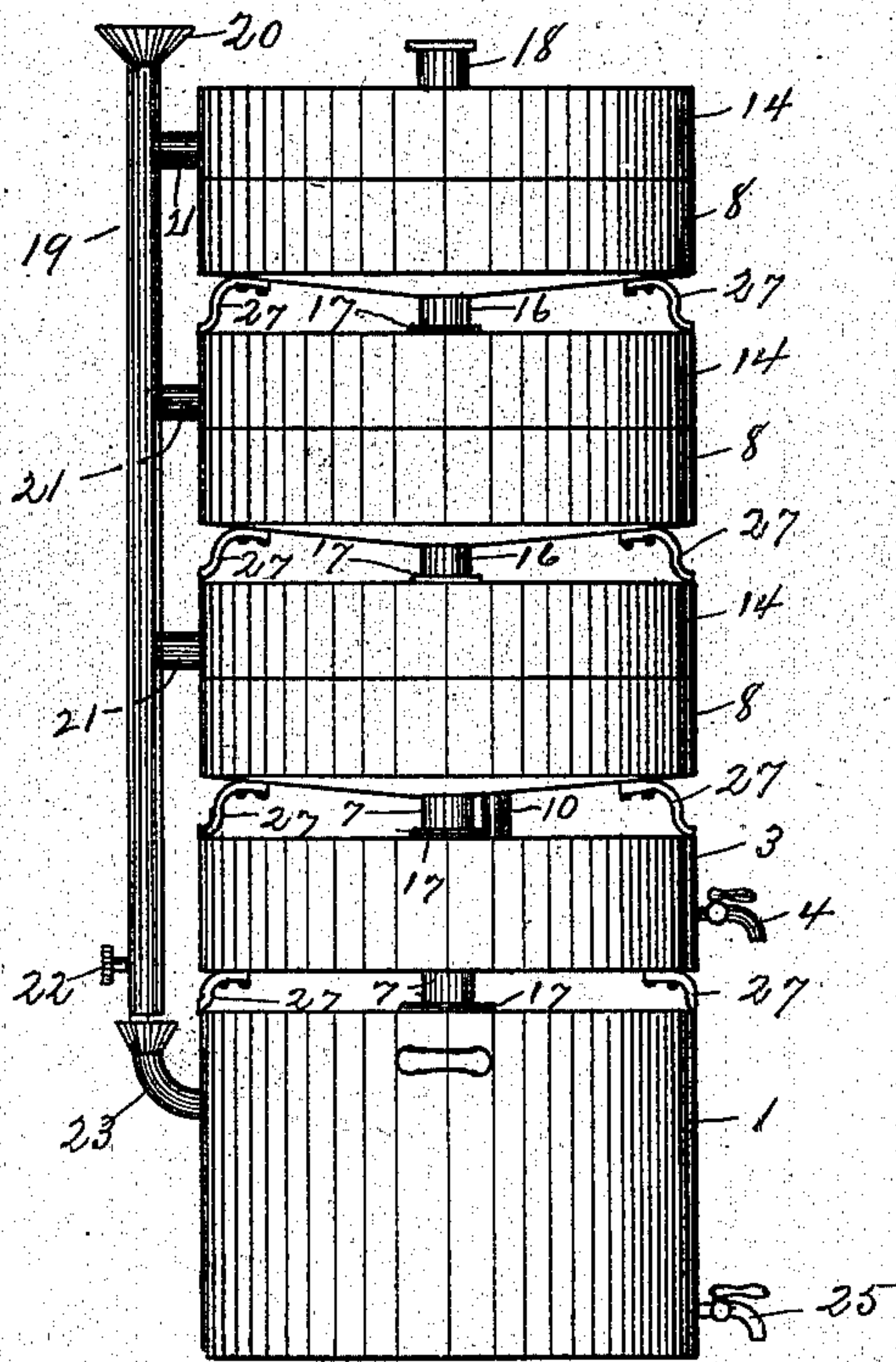


Fig. 4.



Witnesses  
L. E. Potter,  
M. L. Sargent

Inventor  
Martin L. Sargent  
By M. B. Hagin atty



# UNITED STATES PATENT OFFICE.

MARTIN L. SARGENT, OF WICHITA, KANSAS.

## APPARATUS FOR DISTILLING WATER.

SPECIFICATION forming part of Letters Patent No. 562,326, dated June 16, 1896.

Application filed June 21, 1895. Serial No. 553,556. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN L. SARGENT, a citizen of the United States of America, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Apparatus for Distilling Water, of which the following is a specification, reference being had therein to the accompanying drawings, and the figures of reference thereon, forming a part of this specification, in which—

Figure 1 is a detail view of the concavo-convex plates. Fig. 2 is a top plan of my improved apparatus for distilling water. Fig. 3 is a sectional view of the same, and Fig. 4 is a side view of the apparatus complete.

This invention relates to certain improvements in apparatus for distilling water; and it consists of steam-generating chambers, steam-condensing chambers with steam-spreading plates, warm-water receptacles, purified-water receptacle, and pipes connecting the several receptacles; and the object is to provide an apparatus of cheap construction for distilling water for domestic purposes.

Referring to the drawings, 1 represents a hot-water or steam-generating receptacle. 2 is a cover for the same.

3 represents a receptacle for holding the purified water made from the condensed steam. 4 is a faucet for drawing off the same.

5 is a packing for the purpose of more completely separating the purified-water receptacle from the heat of the steam-generating chamber.

6 is a packing around the pipe 7, for the same purpose as the packing 5. Said pipe 7 is a pipe leading from the steam-generating chamber 1 to the condensing-chamber 8 and is for the purpose of providing a passage-way from one to the other of said chambers 1 and 8. Said condensing-chamber 8 is provided with the concavo-convex plate 12 and is for the purpose of retarding the upward passage of the steam from one chamber, 8, to the one above. Said chamber 8 is also provided with the concave bottom for making a drainage from the said chambers 8 through the pipes 16 to the next chamber below until it reaches the first chamber 8 above the purified-water receptacle 8, which is provided with the drip-

pipe 10, which leads to the said purified-water chamber 3. The pipe 7 reaches somewhat above the bottom of the said lower chamber 8, as shown at 11, to prevent the water from dripping back into the steam-generating chamber 1.

13 represents covers to the chambers 8.

14 represents water-receptacles and is for the purpose of holding water to be somewhat heated by the steam in the condensing-chambers 8 and the pipes 16, ready to be turned into the steam-generating chamber 1. 15 represents covers to said water-receptacles.

16 are pipes leading from one chamber 8 to another. 17 is a washer secured to said pipes to act as a center bearing for the different receptacles.

18 is a pipe leading out of the top condensing-chamber 8 for the purpose of allowing the uncondensed steam to escape. If it should become necessary to provide more condensing-chambers to condense all of the steam, they can be added.

19 represents a filling-pipe for the purpose of filling the water-receptacles 14, through the medium of the short connecting-pipes 21.

20 is an enlarged end to said pipe 19, where the water is poured into said pipe 19.

22 is a stop-cock, which, when opened, allows the warm water to pass from the receptacles 14 to the steam-generating chamber 1, through the medium of the pipe 23. Said pipe 23 is provided with the valve 24, which is for the purpose of preventing the steam from escaping through said pipe 23. Said valve 24 is adapted to be opened when it is desired to fill the chamber 1 from the chambers 14.

25 is a faucet for drawing the water from the chamber 1, when it is desired.

26 represents legs on the plate 12 for holding said plate about midway in the chambers 8.

27 are legs secured to the bottom of each of the chambers 8.

I do not wish to be limited to any particular kind of steam-generating chambers.

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

In the herein-described apparatus, for distilling water, the combination of the steam-

generating receptacle, 1, the condensing-chambers, 8, the pipe, 7, leading from the generating-receptacle, 1, to one of said condensing-chambers 8 extending somewhat above  
5 the bottom of said condensing-chamber, the purified-water receptacle, 3, having the packing 5 in the bottom of said receptacle, and the packing, 6, in said receptacle, and around  
10 said pipe 7 for the purpose specified, the drip-pipe 10 leading from the bottom of said condensing-chamber, to the top of said purified-water receptacle, said receptacles separated  
by an air-space, the warm-water receptacles

14 located on one of said condensing-chambers, the drip-pipes, 16, leading from one of 15 said condensing-chambers to another, passing through said warm-water receptacles, the feed-pipes 19 having the pipes 21, for carrying the warm water from said warm-water receptacle 14 through the pipe 19 to the steam-gen- 20 erating receptacle, 1.

MARTIN L. SARGENT.

Witnesses:

L. E. POTTER,  
L. H. SARGENT.