

R. B. SPENCER.
CLOTHES WRINGER.
APPLICATION FILED SEPT. 9, 1909.

970,566.

Patented Sept. 20, 1910.

2 SHEETS—SHEET 1.

Fig. 1

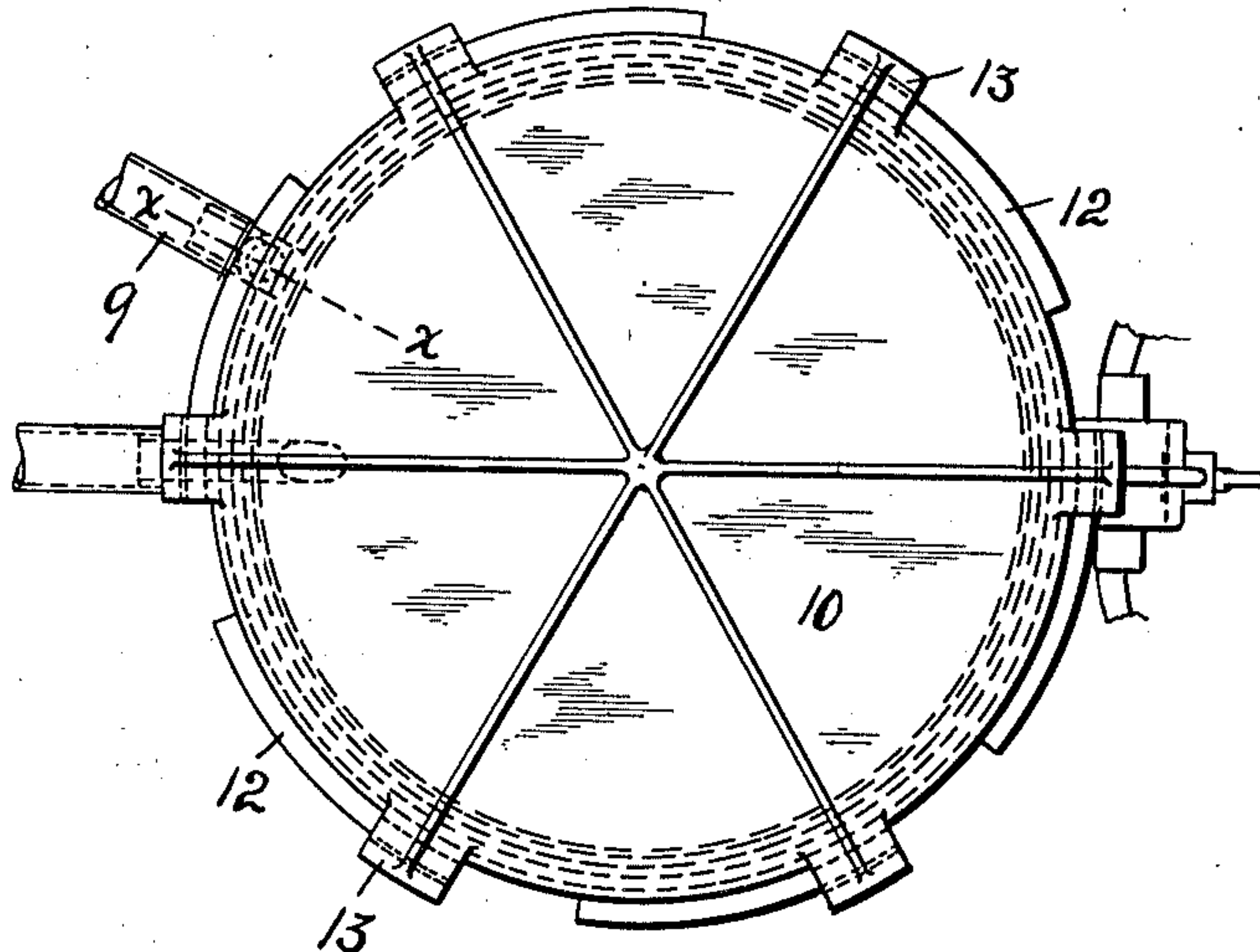


Fig. 2

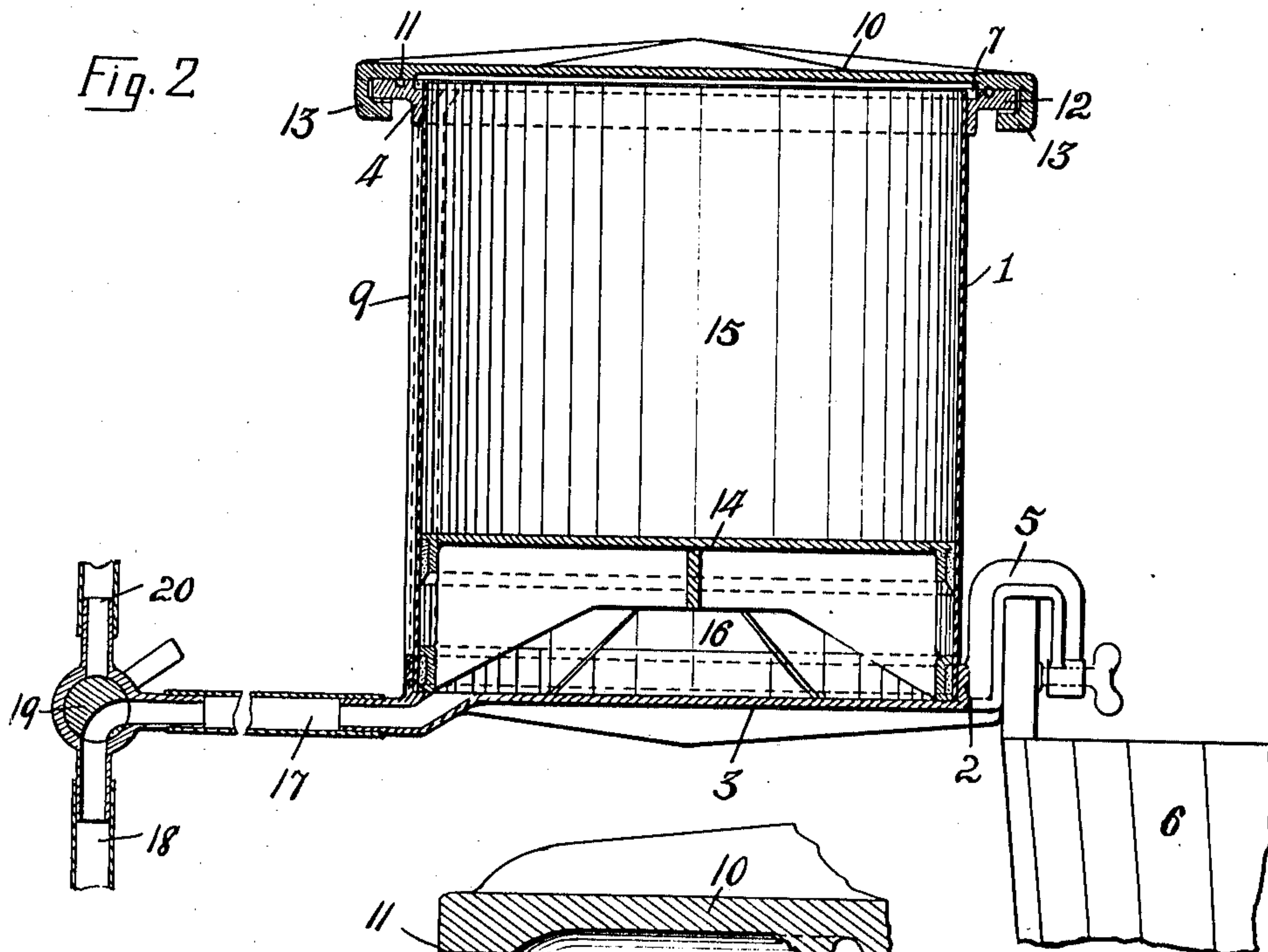
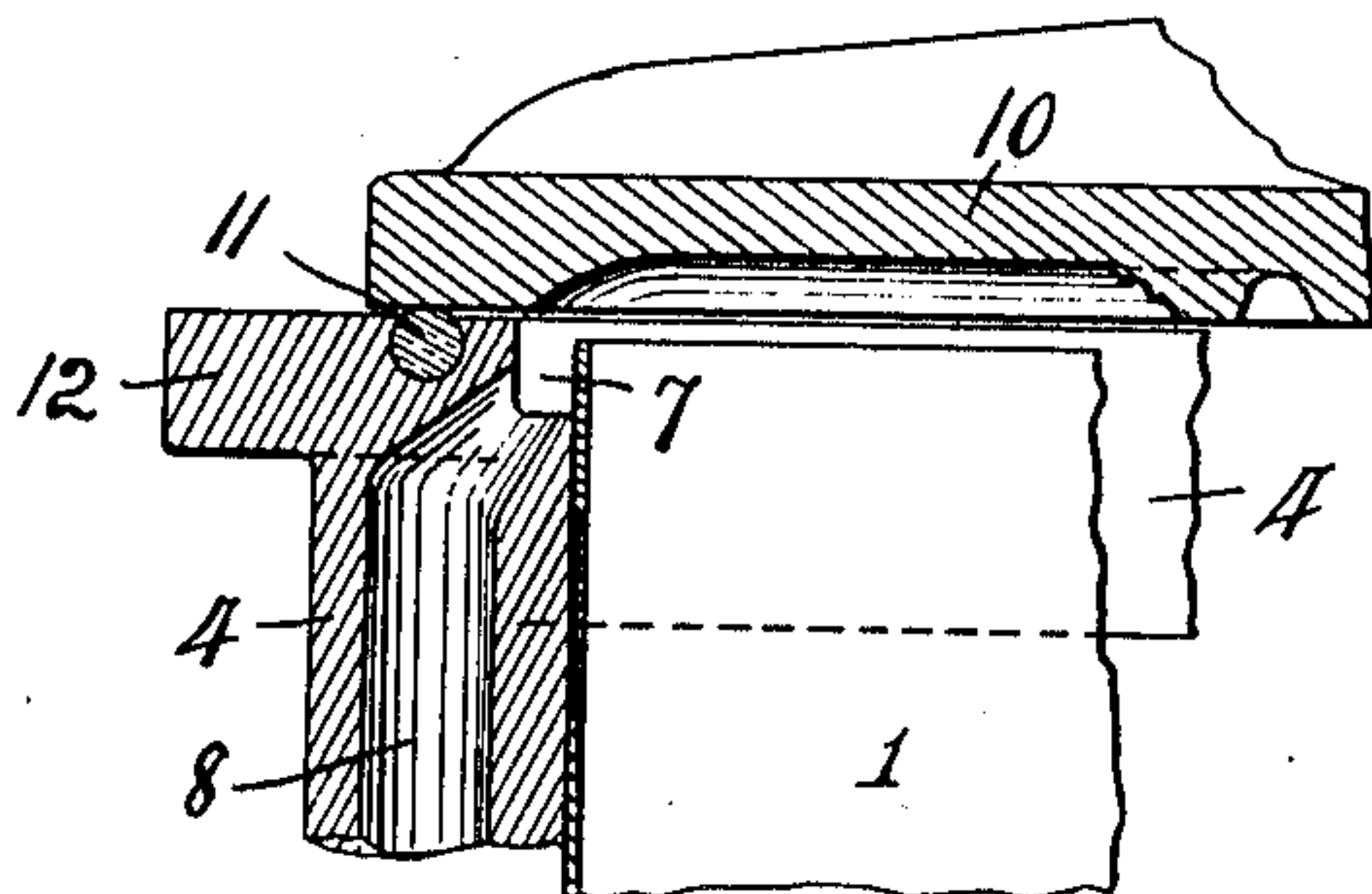


Fig. 3



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2 SHEETS—SHEET 2.

Fig. 4.

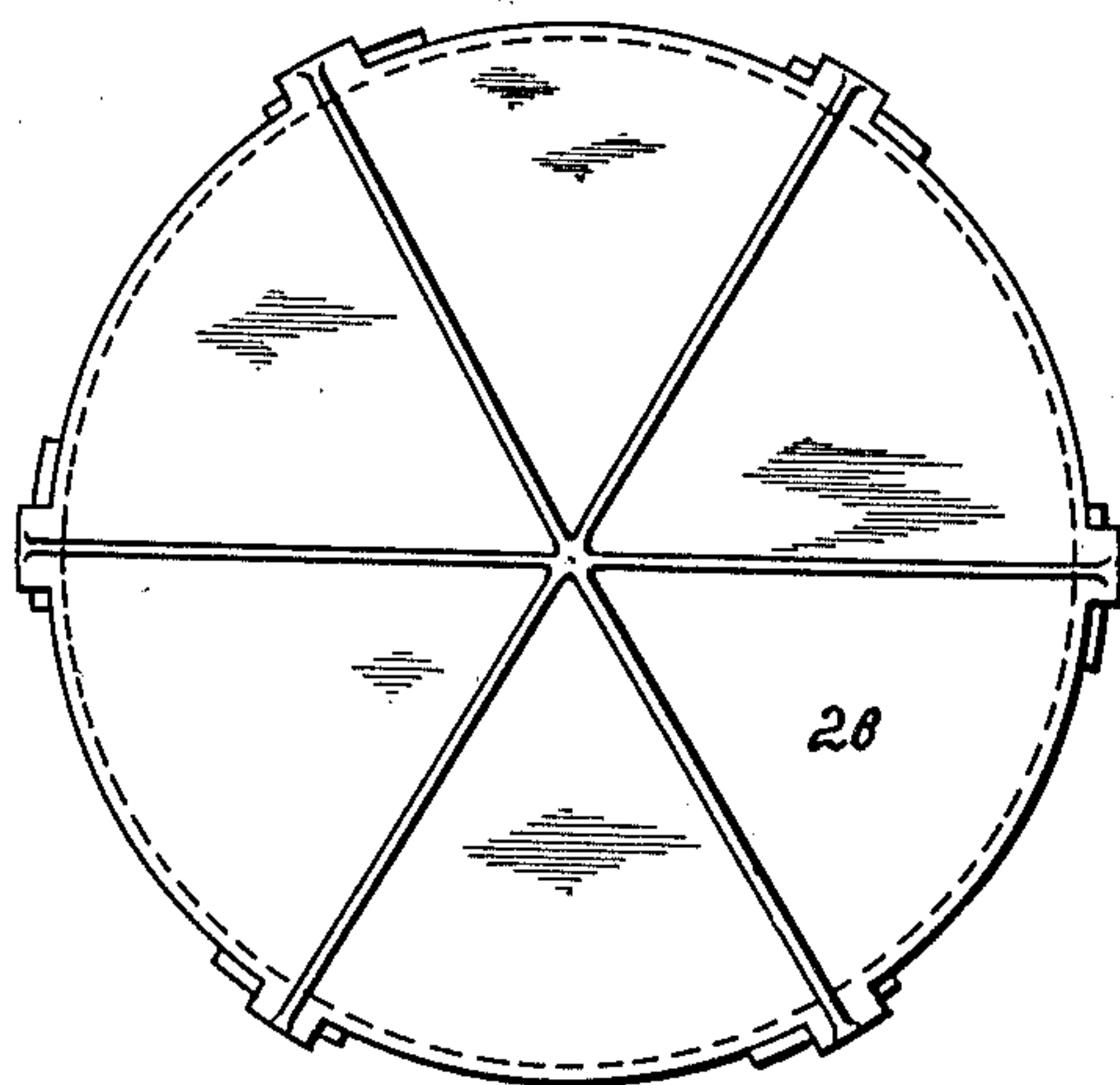


Fig. 6.

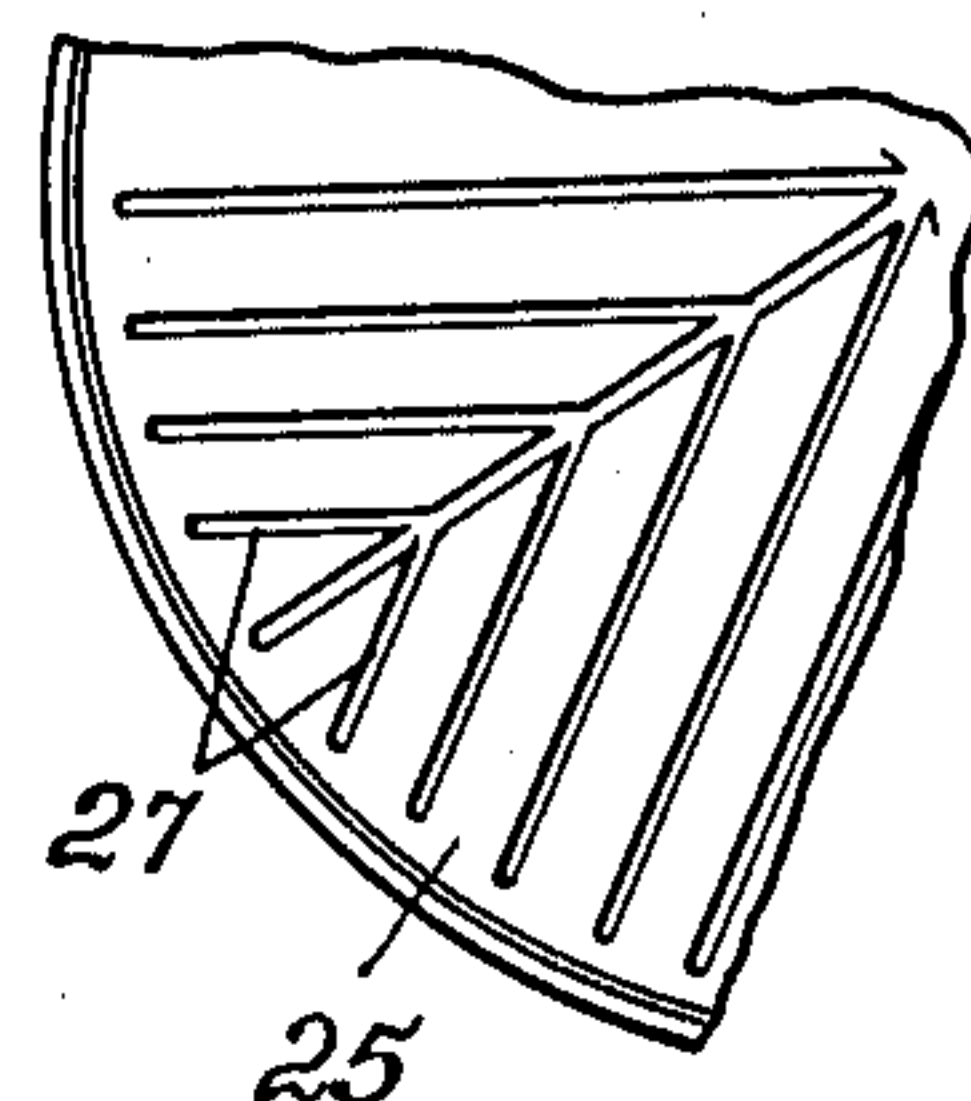
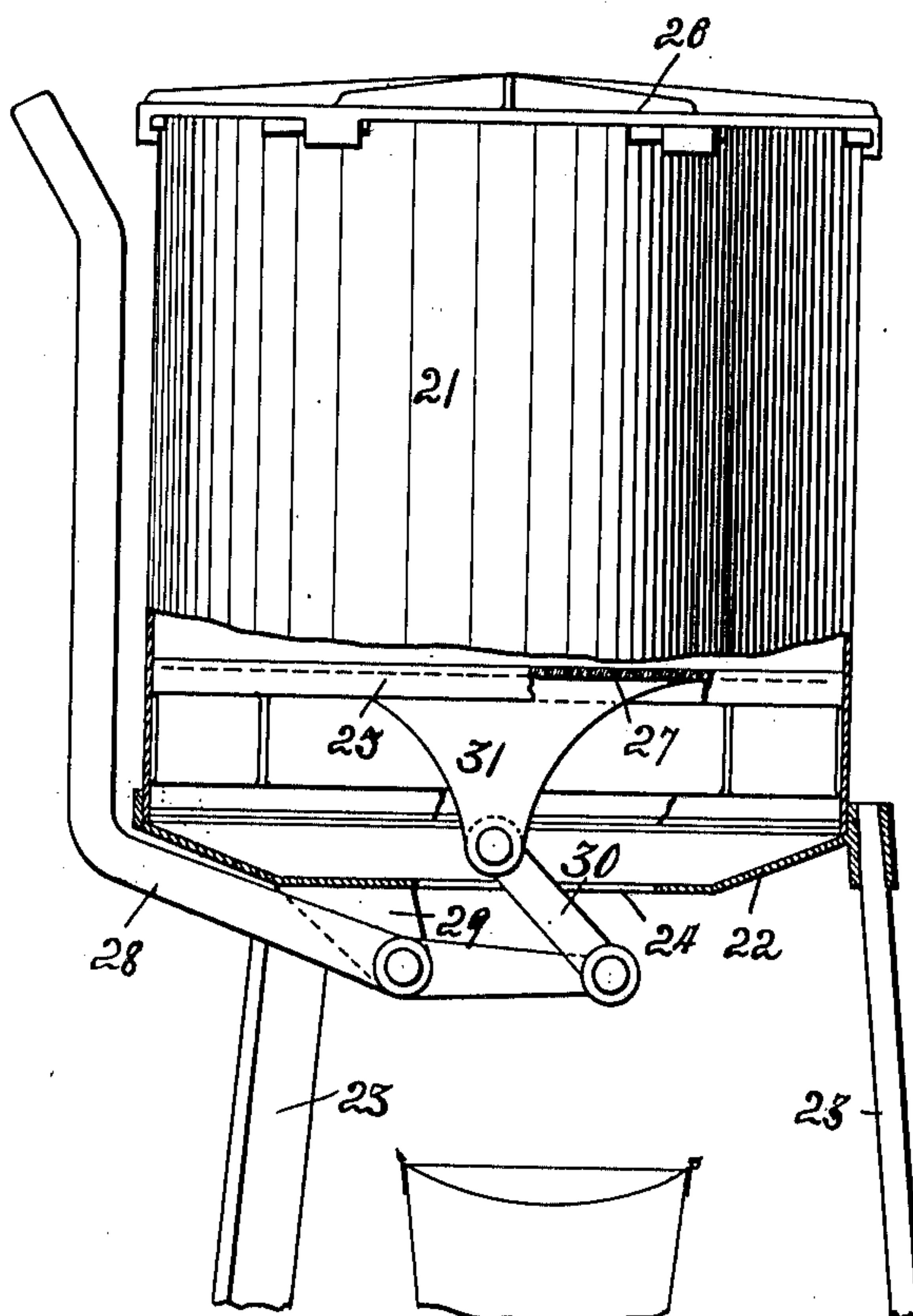


Fig. 5.



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ROBERT B. SPENCER, OF TOLEDO, OHIO.

CLOTHES-WRINGER.

970,566.

Specification of Letters Patent. Patented Sept. 20, 1910.

Application filed September 9, 1909. Serial No. 516,886.

To all whom it may concern:

Be it known that I, ROBERT B. SPENCER, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Clothes-Wringer; and I do hereby 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to devices for wringing clothes, and has for its object the provision of a simple, and improved device of this character, which is strong and durable in its construction, easy and efficient in its operation, and inexpensive of manufacture, and which is adapted to be operated mechanically or by water, compressed-air or other fluid means under pressure.

The operation, construction and arrangement of the parts of the invention, are fully described in the following specification, and while the invention in its broader scope is susceptible of numerous embodiments, two only of such embodiments are illustrated in the accompanying drawings, in which,—

Figure 1 is a top plan view of a form of fluid operated wringer. Fig. 2 is a central vertical section of the same. Fig. 3 is an enlarged partial section of the same on the line $x-x$ in Fig. 1. Fig. 4 is a top plan view of a mechanically operated form of my wringer. Fig. 5 is a side elevation of the same with portions broken away, and Fig. 6 is a top plan view of a portion of the plunger or piston employed in such form.

Referring to Figs. 1 to 4 of the drawings, 1 designates a cylindrical or other suitable form of casing, which has its lower end fitted closely within a flange 2 formed on the upper edge of a bottom 3, and its upper end fitted within a collar 4. A clamp-bracket 5 may be provided on the side of the bottom 3 for clamping onto the side of a tube 6 or other object to support the wringer, or it may be supported in any other suitable or convenient manner. The collar 4, which encircles the upper end of the casing 1 is grooved or recessed at its upper inner edge and is shown in the present instance as combining with the upper edge of the casing 1 to form a trough or channel 7 which has a

drainage outlet 8 at one side thereof through the collar 4, as shown in Fig. 3. The outlet 8 connects with a drain-pipe 9, which leads to any suitable place of discharge. A cover 10 fits down closely upon a gasket 11 on the top of the collar 4 to seal the upper end of the casing against the escape of water except through the outlet 8, and is shown as being secured in position thereon by the co-operating action of wedge-lugs 12 provided on the outer edge of the collar 4 and hooked-fingers 13 on the edge of the cover, as indicated. Fitted within the casing 1 for vertical movements therein is a plunger or piston 14 of any suitable construction, the periphery of which is provided with one or more gasket or packing rings, which prevent the passage of fluid from one side to the other thereof. This piston divides the casing 1 into a clothes or wringing chamber 15 and a fluid chamber 16, which latter has communication with a source of fluid under pressure, such for instance as water, compressed air, or the like, through a conduit 17 and supply-pipe 18. The admission of fluid to the chamber 10 is controlled by a valve 19, which is of the three-way type and adapted to be turned to close the communication between the pipes or conduits 17 and 18 and open communication between the conduit 17 and a drainage-conduit 20 when it is desired to release the pressure from beneath the piston 14 to permit a lowering thereof. In the operation of this form of my device, the wet clothes are taken from the tub and placed into the chamber 15 of the casing 1, after which the cover 10 is secured in place on the casing top. On the admission of fluid under pressure to the chamber 16, by a turning of the valve 19, the plunger 14 is forced upward and compresses the clothes contained in the chamber 15 with such force as to wring all or a greater part of the water from the same, which water passes into the channel 7 and finds an outlet from the chamber through the passage 8 and drain-pipe 9. When the clothes have been wrung to the desired extent, the valve 19 is turned to close the communication between the chamber 16 and the supply-pipe 18 and open the communication between such chamber and the drainage-pipe 20, thus releasing the pressure from the plunger and permitting it to lower.

In the form of my invention illustrated in Figs. 4 to 6, 21 designates the plunger casing or barrel; 22 the bottom thereof which is

shown as being provided with supporting legs 23 and having the drainage opening 24; 25 the plunger, which works within the casing, and 26 the cover which is removably fitted to the casing top to close the same. The plunger 25 is provided with a series of perforations or slots 27 through which the water that is forced from the clothes in the upper chamber of the casing passes to the lower portion of the casing from which it drains through the opening 24 in the casing bottom. The means shown in this instance for operating the plunger 25 consist of a lever 28, which is fulcrumed to a bracket 29 beneath the casing and has its short-arm connected by a link 30 to a central boss 31 on the bottom of the plunger, the link 30 being shown as passing through the opening 24. The long arm of the lever 28 is preferably angled to project to adjacent the top of the casing, as shown. The operation of this form of my invention is apparent.

I wish it understood that my invention is not limited to any specific construction or arrangement of the parts except in so far as such limitations are specified in the claims.

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

1. A clothes wringer, comprising a casing forming a clothes chamber and having a fluid outlet at the upper portion thereof, a plunger movable in said casing to compress clothes in said chamber and forming the bottom thereof, means for operating the plunger, and means for carrying off the fluid emitted from said fluid outlet.

2. In a clothes wringer, a casing having means at its upper end portion for the escape of fluid, means for carrying the escaped fluid away from the casing, a plunger movable in the casing and forming the bottom of an upper clothes chamber, and means for operating such plunger.

3. In a clothes wringer, a casing having a removable top and provided adjacent its upper end with fluid escape means, means for carrying the escaped fluid from the casing to a predetermined point, a plunger working

in the casing and dividing it into an upper clothes chamber and a lower fluid pressure chamber, and means in communication with a source of fluid under pressure and operative to admit fluid to the fluid chamber to operate the plunger.

4. In a clothes wringer, a casing having its upper end open, a removable cover for the upper end of the casing, said casing having a drainage channel around its upper end, a plunger movable in said casing and forming the bottom of a compression chamber, and means for operating the plunger.

5. In a clothes-wringer, a casing having an open top and a drainage channel around the opening, said channel being provided with an outlet, a plunger operative in said casing and forming the bottom of a clothes chamber, a closure for the casing opening, and means for operating the plunger to compress clothes within said chamber.

6. In a clothes-wringer, a casing having an open top having a drainage channel surrounding such opening and an outlet from such channel, a cover adapted to seat closely over the casing top, a plunger movable in the casing and dividing it into an upper clothes chamber and a lower fluid chamber, and means for admitting fluid under pressure to the fluid chamber and draining fluid therefrom.

7. In a clothes-wringer, a casing having an open top, a collar encircling such top and combining with the casing to form a drainage channel around the top opening and a drainage outlet, means cooperating with said collar to close the casing top, a plunger operative in said casing and dividing it into an upper clothes chamber and a lower fluid chamber, and means for admitting fluid to and draining it from the fluid chamber.

In testimony whereof, I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

ROBERT B. SPENCER.

Witnesses:

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