

No. 771,306.

PATENTED OCT. 4, 1904.

E. F. GREGG.

HOLDFAST FOR PORTABLE SHOWERS, SHAMPOO SPRINKLERS, &c.

APPLICATION FILED JUNE 22, 1903.

NO MODEL.

Fig. I.

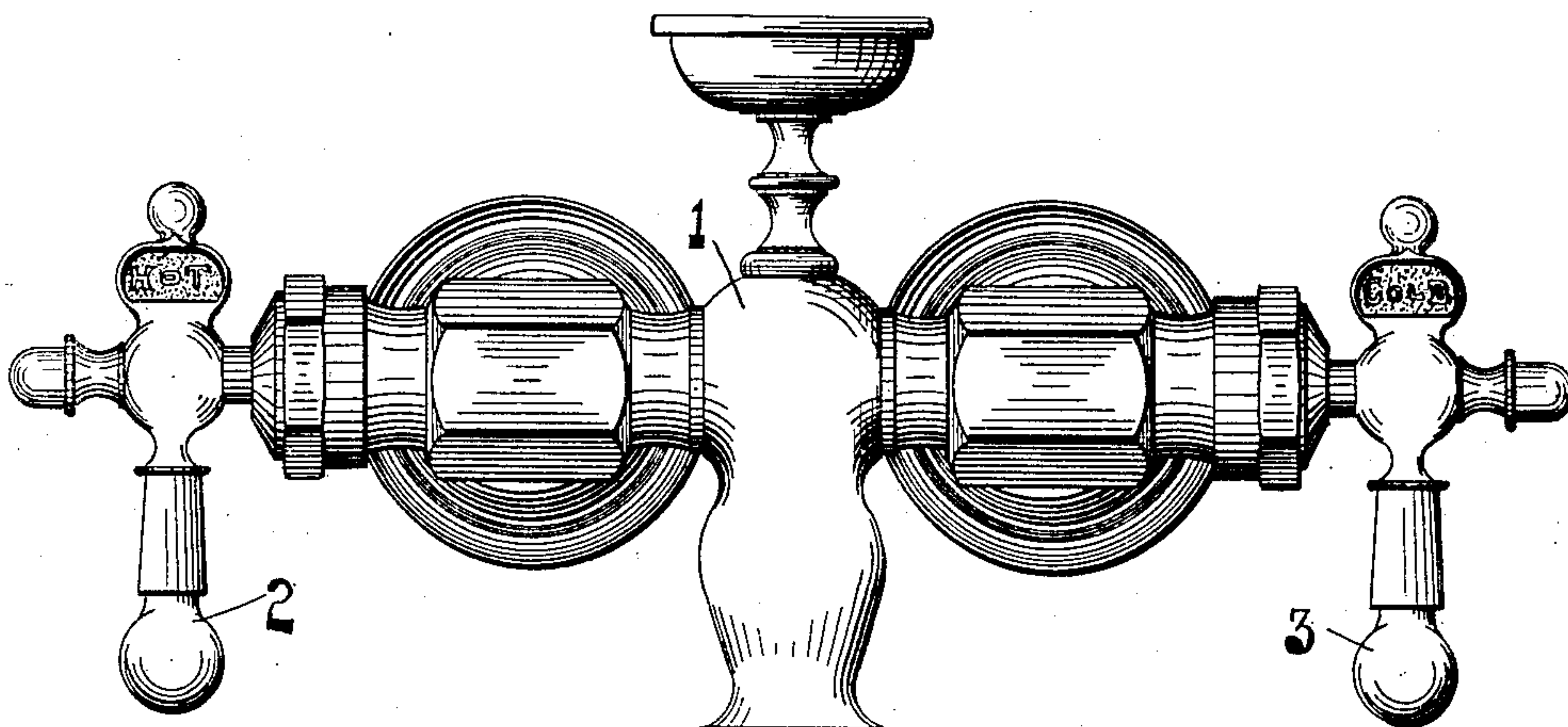


Fig. II.

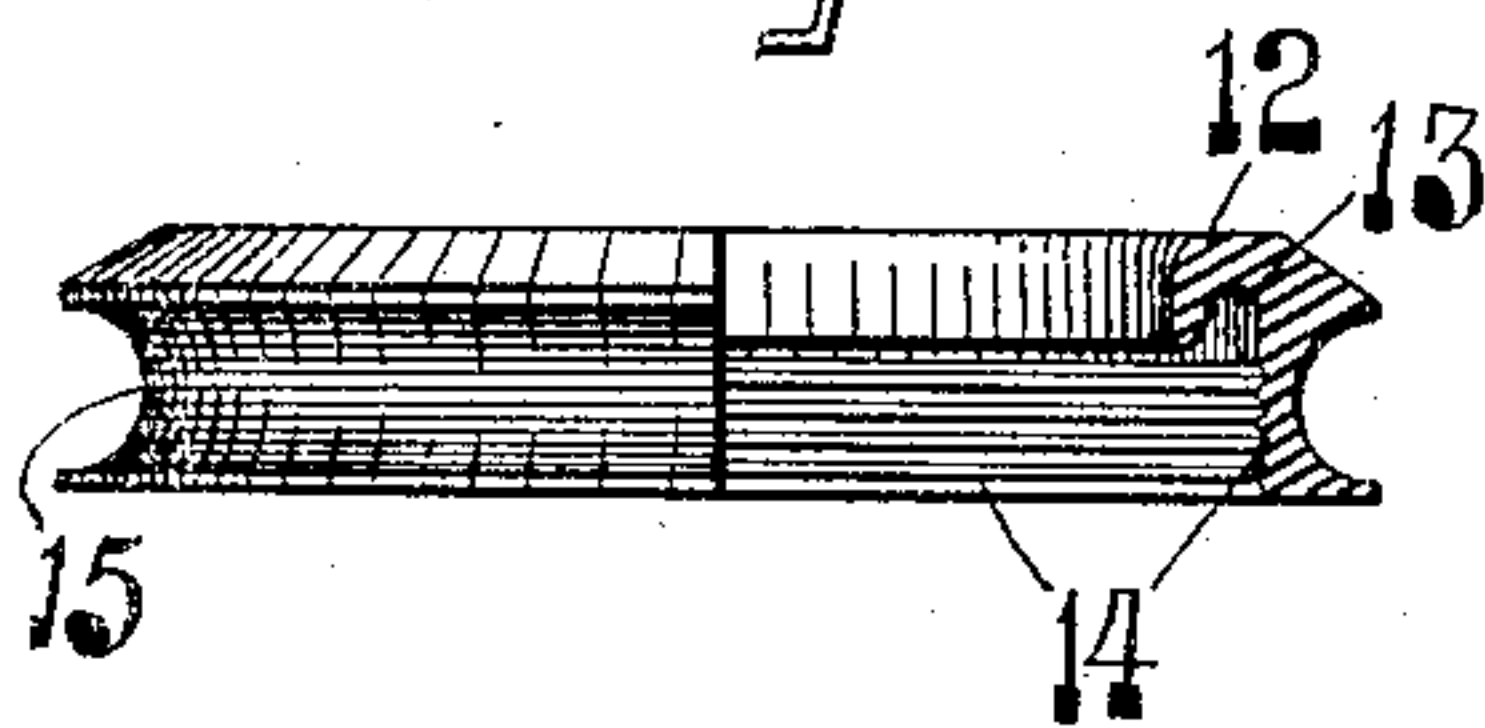


Fig. III.

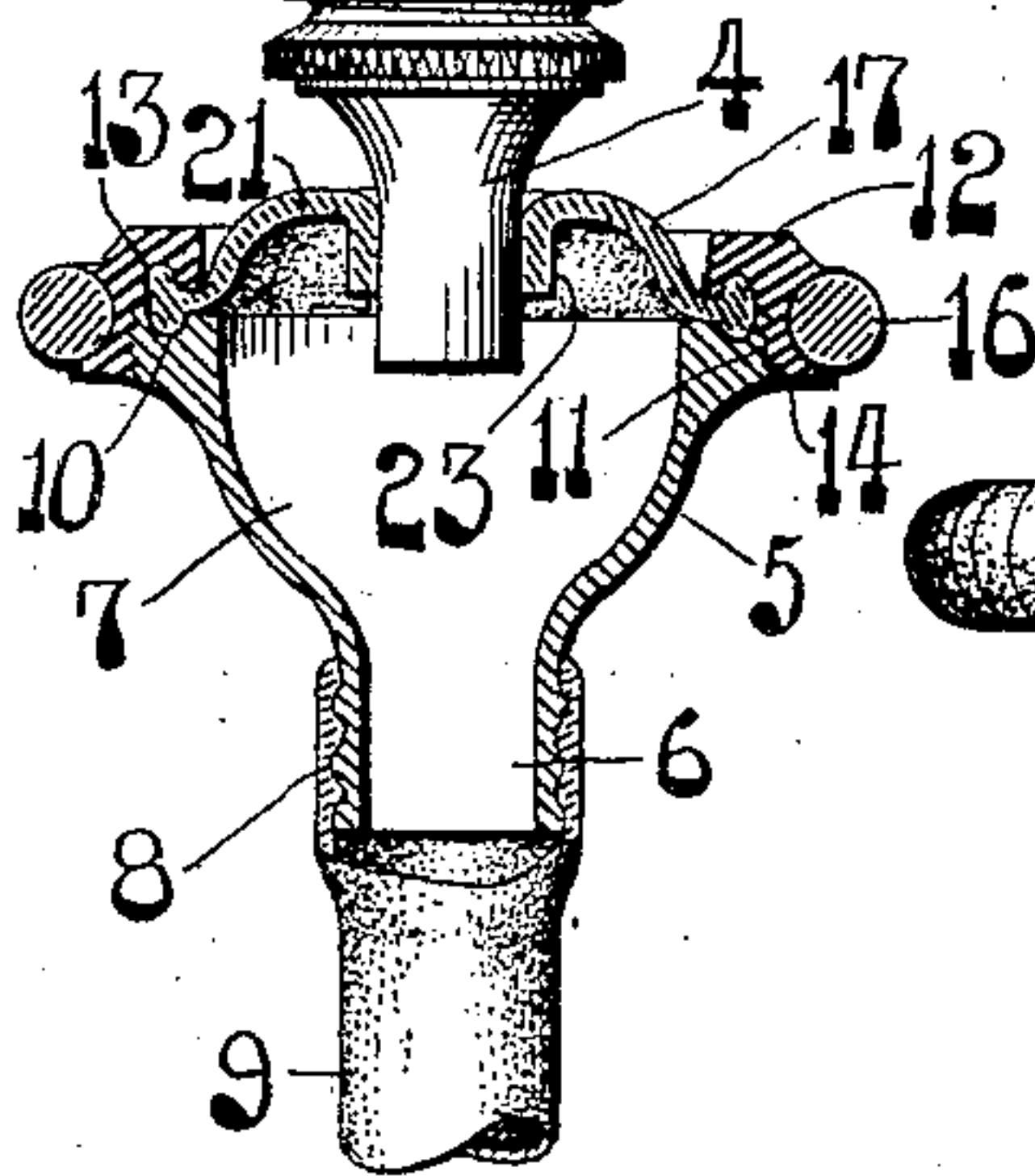
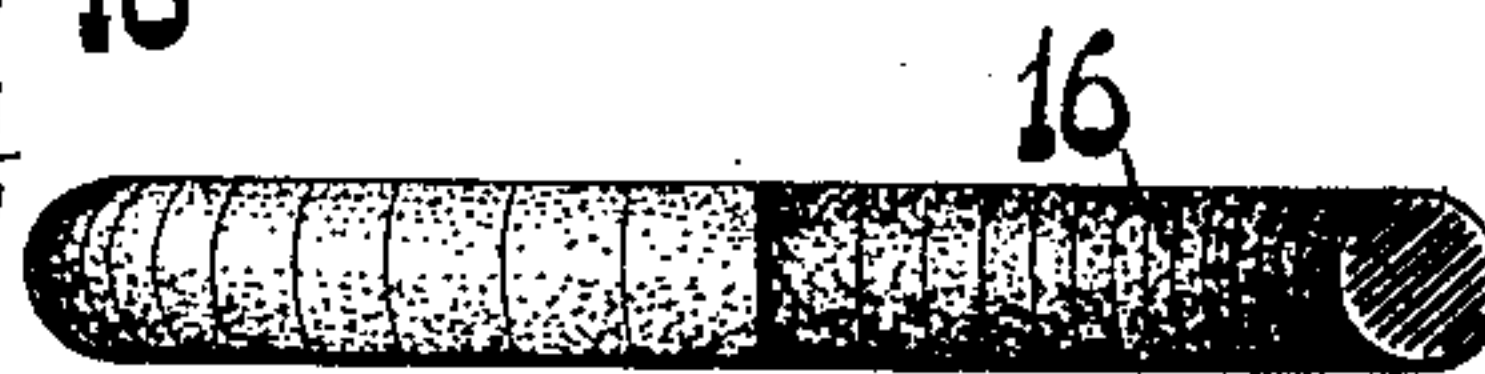


Fig. IV.

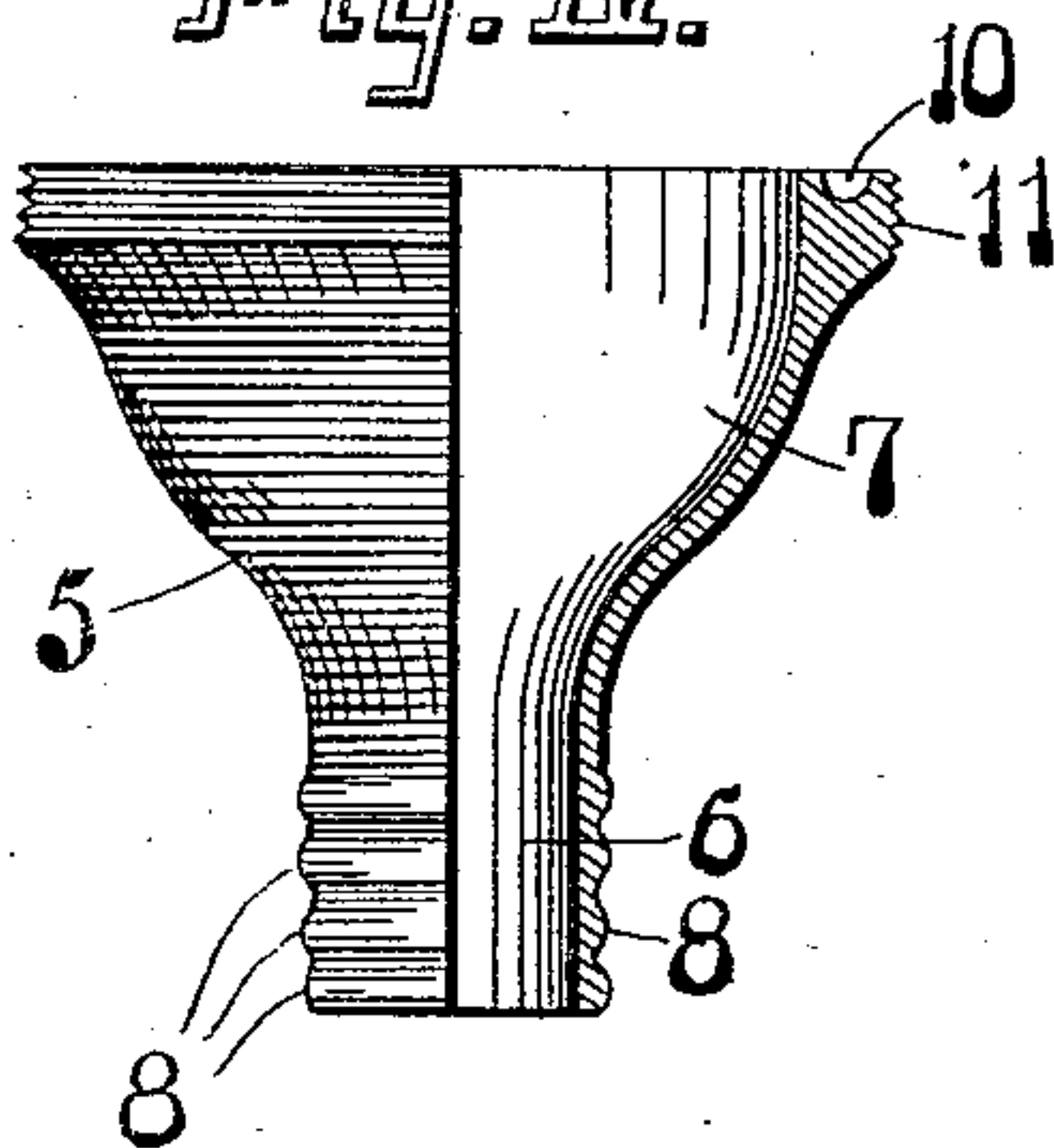
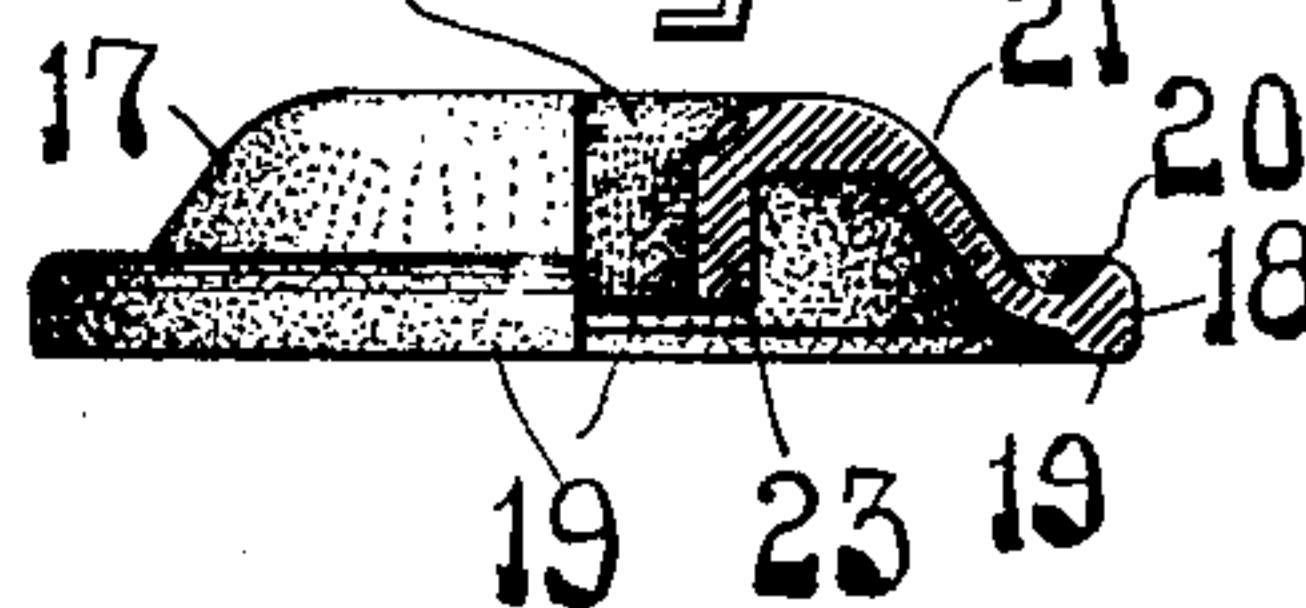


Fig. V.



WITNESSES:

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HOLDFAST FOR PORTABLE SHOWERS, SHAMPOO-SPRINKLERS, &c.

SPECIFICATION forming part of Letters Patent No. 771,306, dated October 4, 1904.

Application filed June 22, 1903. Serial No. 162,490. (No model.)

To all whom it may concern:

Be it known that I, EDGAR F. GREGG, a citizen of the United States, residing at Thornburg, in the county of Allegheny and State of Pennsylvania, have invented or discovered new and useful Improvements in Holdfasts for Portable Showers, Shampoo-Sprinklers, &c., of which the following is a specification.

In the accompanying drawings, which make part of this specification, Figure I is a front elevation of a water-fixture commonly employed in bath-tubs, my invention being shown in section and applied to the outlet of the fixture; Fig. II, a view, half in side elevation and half in vertical section, showing the clamping-ring which I use; Fig. III, a view similar in character to Fig. II, showing the guard or protective ring; Fig. IV, a like view showing the body portion of my invention, and Fig. V a like view showing the elastic diaphragm.

My invention relates to hose or pipe couplings, and more particularly to that species of coupling known as a "holdfast," whereby a hose leading to a certain attachment for bath-tubs or to a shampooing or spraying head may be readily attached to or detached from the usual water-fixtures of a bath-tub or washbowl or to a faucet or tube. Its object is to provide a holdfast which can be made at a comparatively low cost and is so constructed that in case a break occurs it may be quickly and cheaply repaired without a sacrifice of the whole holdfast.

The water-fixture as a whole is designated by the numeral 1.

2 and 3 indicate the levers by which the hot and cold water is turned on and off, and 4 represents the outlet pipe or nozzle of the fixtures.

5 is the metal body portion of the holdfast, and consists of a lower tubular part 6 and an upper flaring or bell-shaped part 7. The part 6 is provided with ribs or corrugations 8, to which is attached the hose 9, leading to any desired head—such, for example, as are used for showers, shampooing, sprinkling, or spraying. The upper end of the body 5 is

provided with an endless or annular groove 10, and the periphery at this end has the threads 11.

12 is the clamping-ring, having on its lower side an endless or annular groove 13, similar to the groove 10. The ring 12 has an annular flange 14, threaded interiorly, so as to operate with the exterior threads 11. The ring 12 is provided exteriorly with an annular groove 15, in which is seated the elastic guard or protective ring 16, made, preferably, of rubber.

17 is an elastic diaphragm having a permanent circumferential bead or rib 18, whose under portion 19 fits the groove 10 and upper portion 20 the groove 13. The intermediate portion 21 of the diaphragm is convex, and its central portion has an opening 22, formed by the tubular downwardly-extending portion 23. The tubular portion 23 of the diaphragm is of such a diameter that when it is pushed over the nozzle 4 it will fit the same sufficiently tight to keep the pressure of the water from forcing the holdfast off the nozzle. By making the hole 22 flanged, so as to form the tube 23, the diaphragm is not so liable to be torn.

In assembling the parts of my holdfast I screw the clamping-ring 12 upon the body 5, the diaphragm 17 being clamped between the ring and body. The bead 18 is seated in the grooves 10 and 13, which prevent the diaphragm from being pulled off from its seat. It will be found difficult to force the diaphragm through the ring even before the ring is screwed on the threads 11. The portion 20 of the bead and the groove 13 are preferably larger than the portion 19 of the bead and the groove 10.

The ring 16 protects the enamel of the bath-tub or other fixture from injury in case the holdfast should fall upon it.

The only part of my holdfast that will need to be replaced is the rubber diaphragm 17, and when this becomes necessary the ring 12 can be easily screwed off and a new diaphragm put on.

I do not desire to be limited to the precise form and size of the parts shown, as many

changes may be made while still retaining the principles involved. The claim expresses the extent for which protection is desired, and features shown, but not claimed, are not regarded
5 as essential, and the terms of the claim are to be given their broadest possible interpretation irrespective of the showing made on the drawings.

10 Having described my invention, I claim—
A holdfast comprising a hollow body portion having a groove on the end thereof around the hollow, a clamping-ring having a hollow

opposite the groove in the body portion, and a yielding diaphragm having a permanent bead in the two said grooves, the clamping-ring 15 causing the bead to be retained by the grooves and to form a water-tight joint between the ring and the body portion.

Signed at Pittsburg this 19th day of June, 1903.

EDGAR F. GREGG.

Witnesses:

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F. N. BARBER.