

No. 619,988.

Patented Feb. 21, 1899.

A. OW.

LEG FASTENING FOR BATH TUBS.

(Application filed May 9, 1898.)

(No Model.)

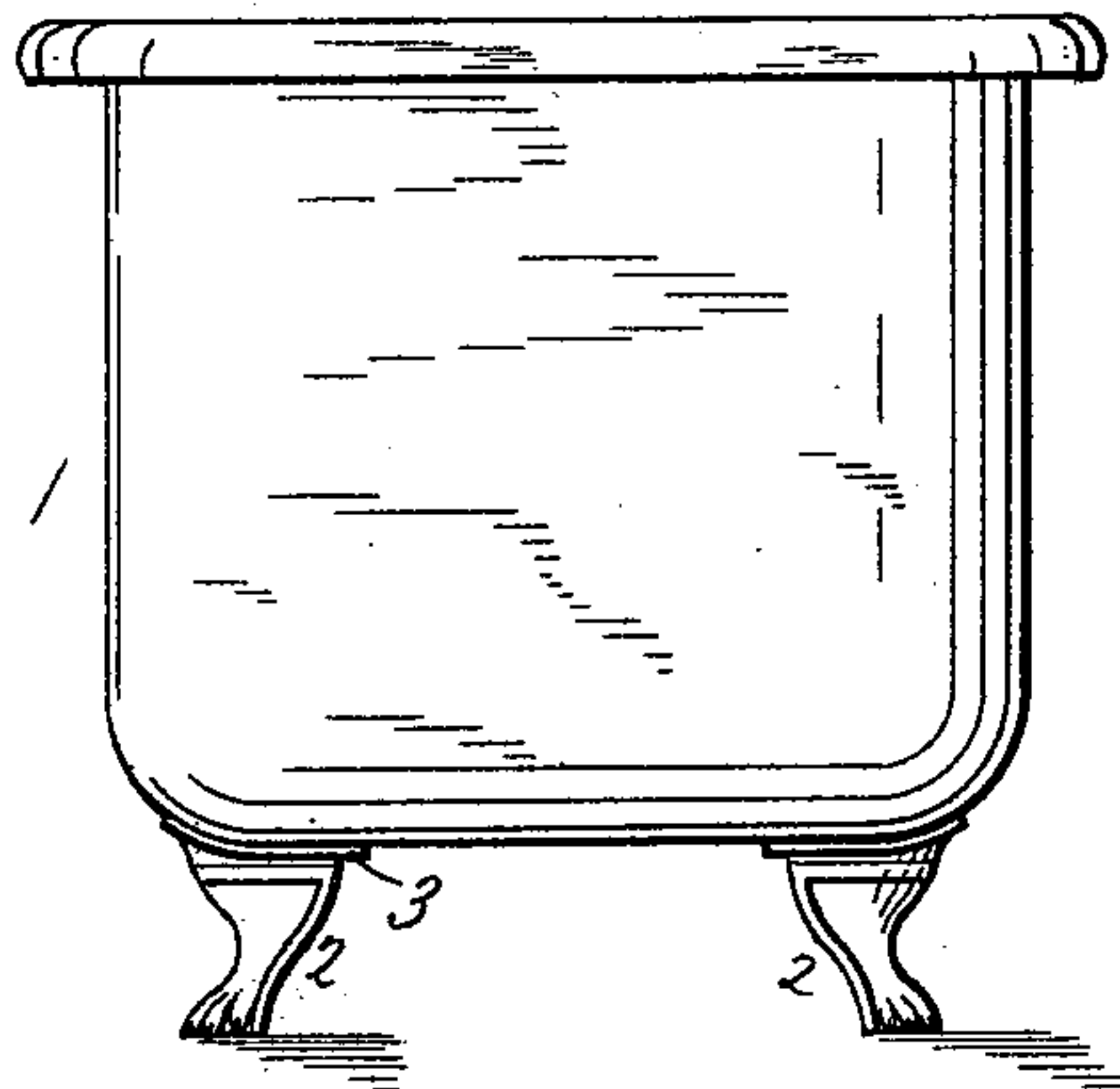


Fig. I

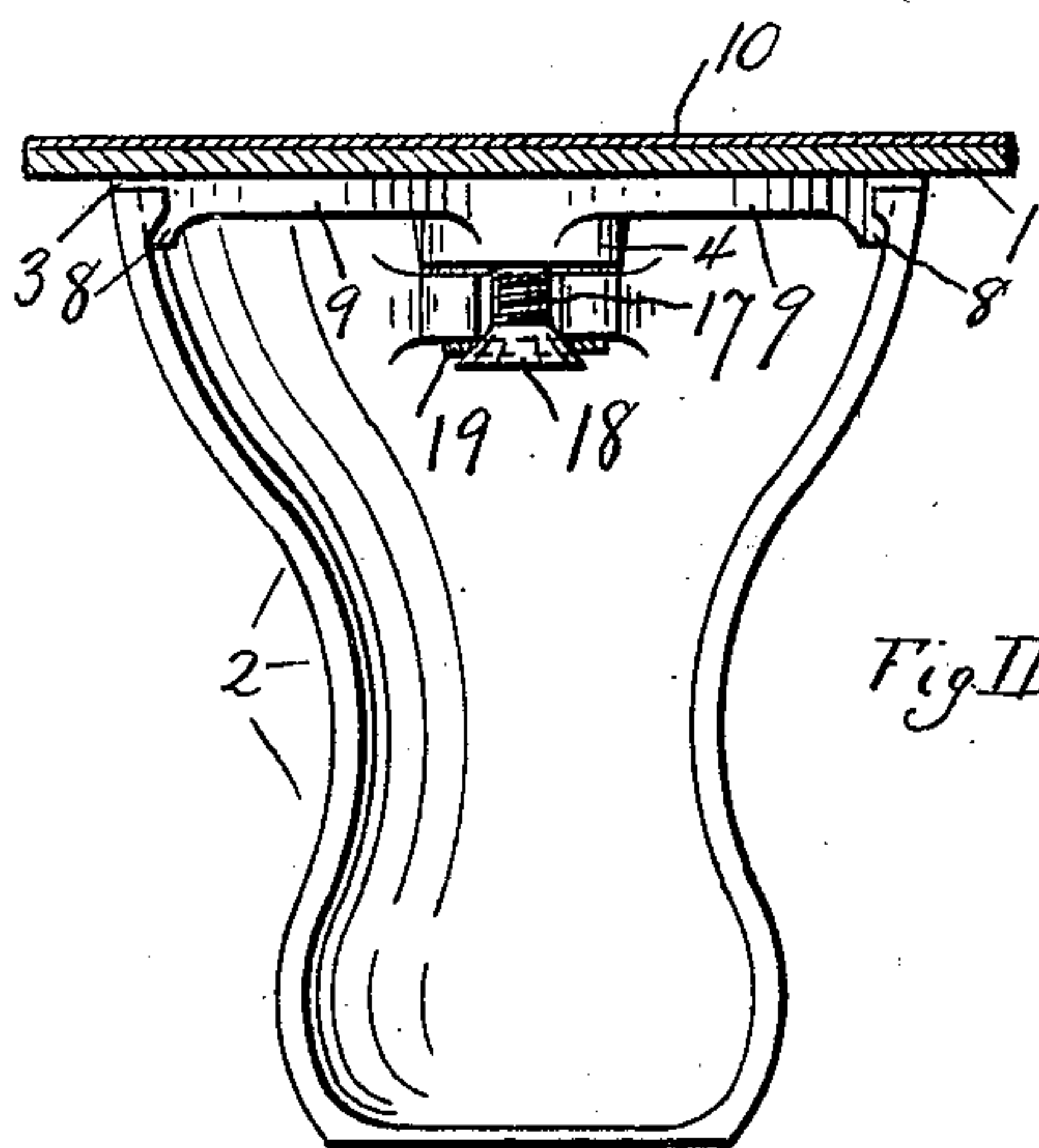


Fig. II

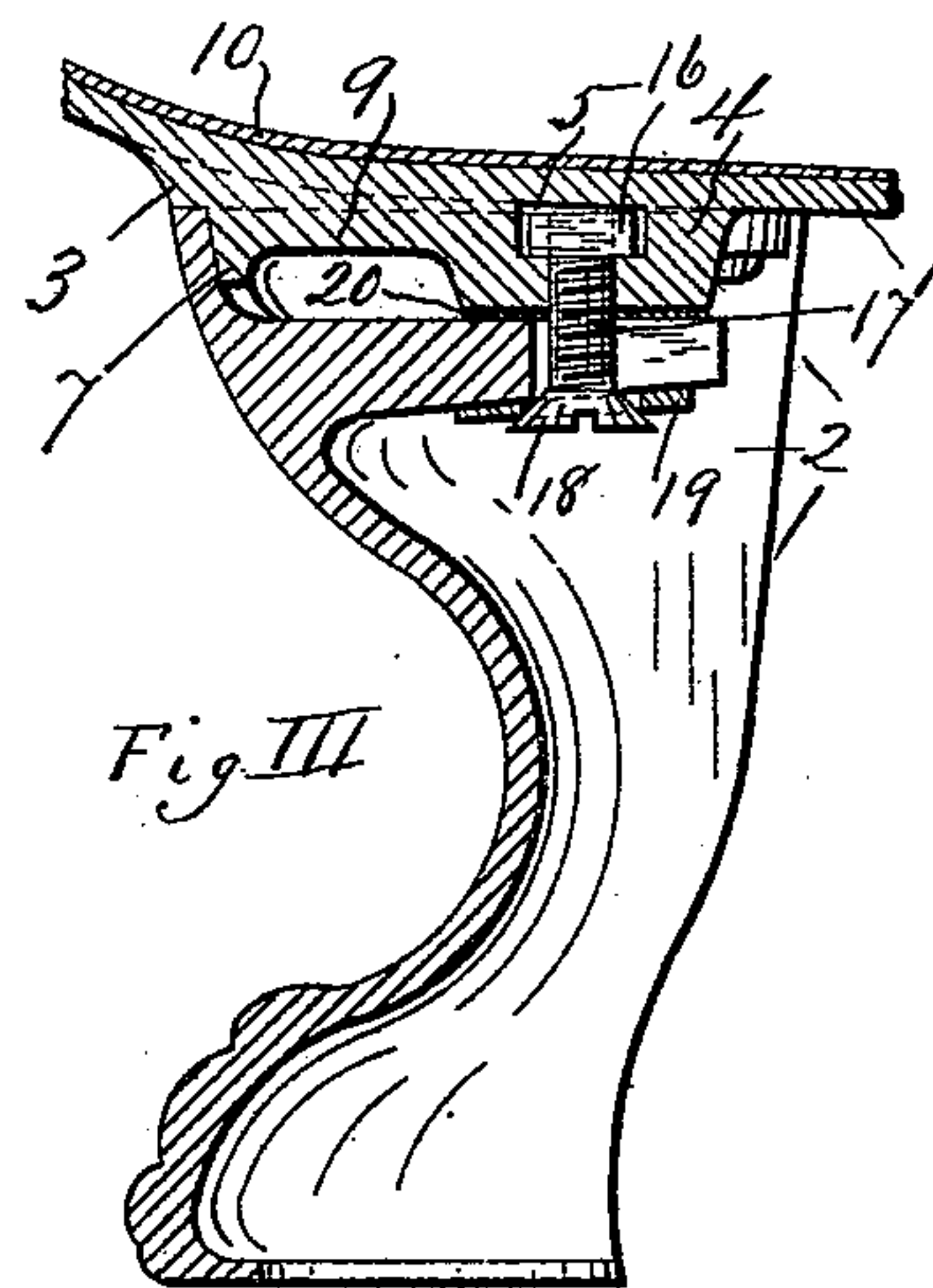


Fig. III

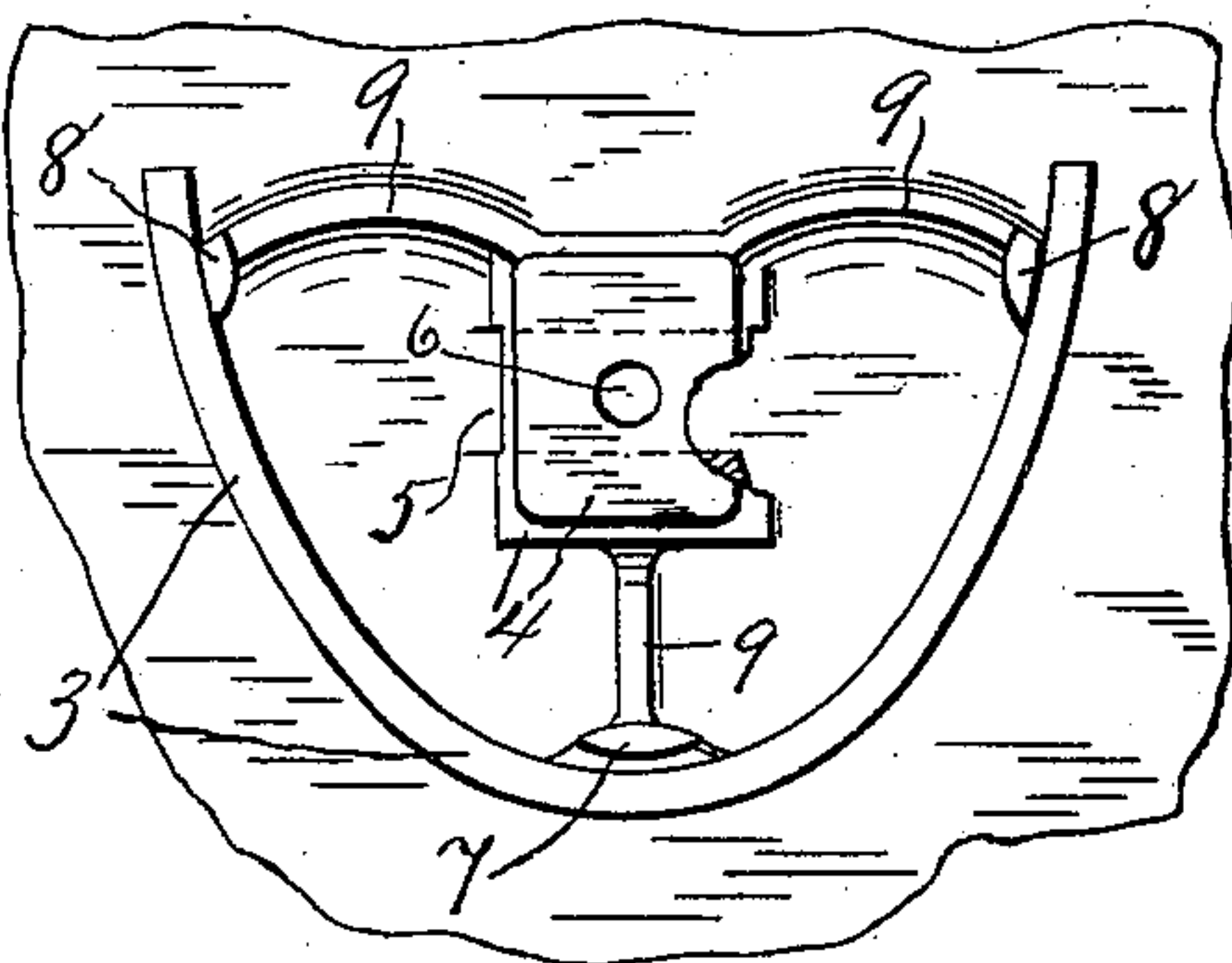


Fig. IV

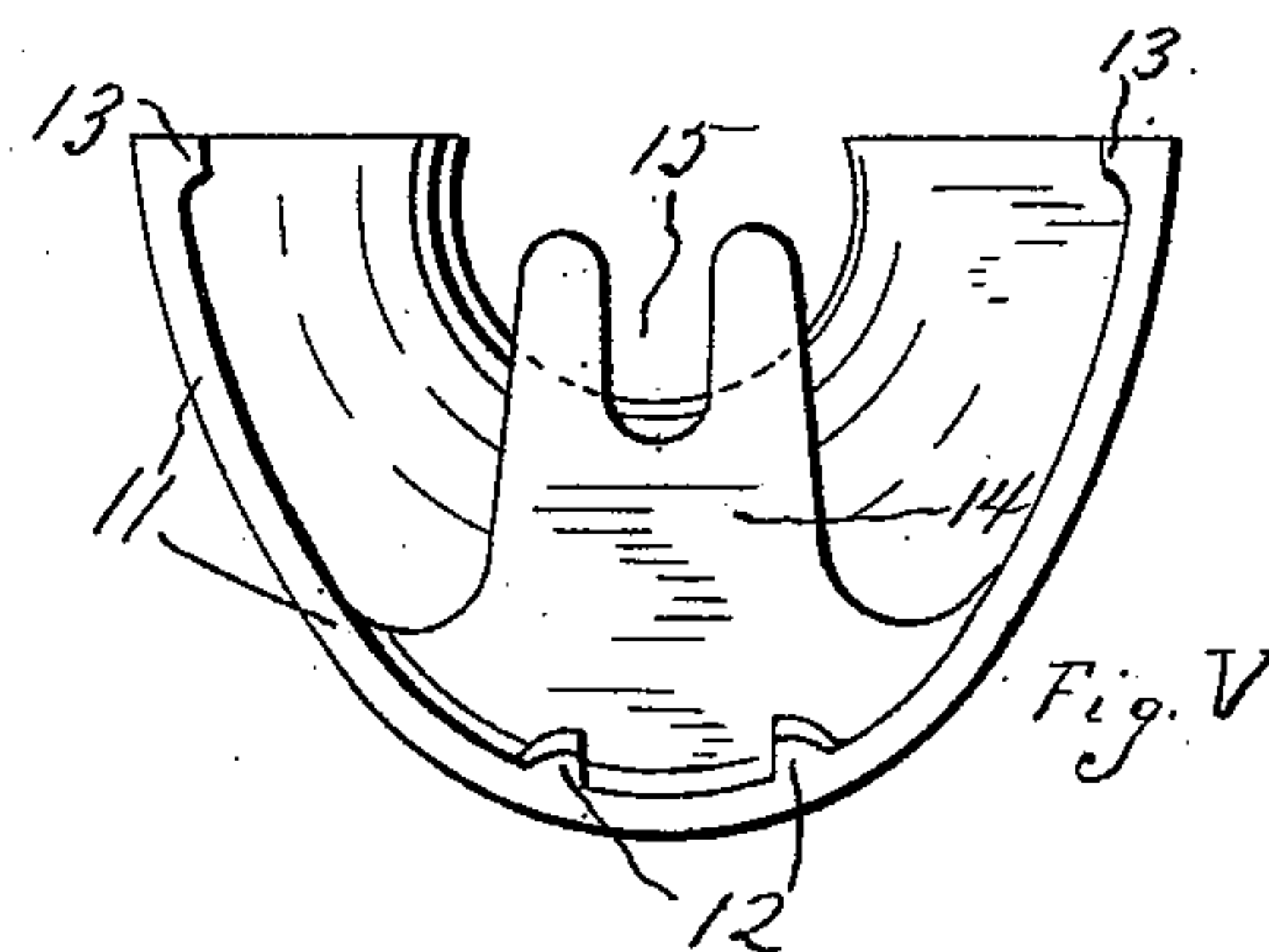


Fig. V

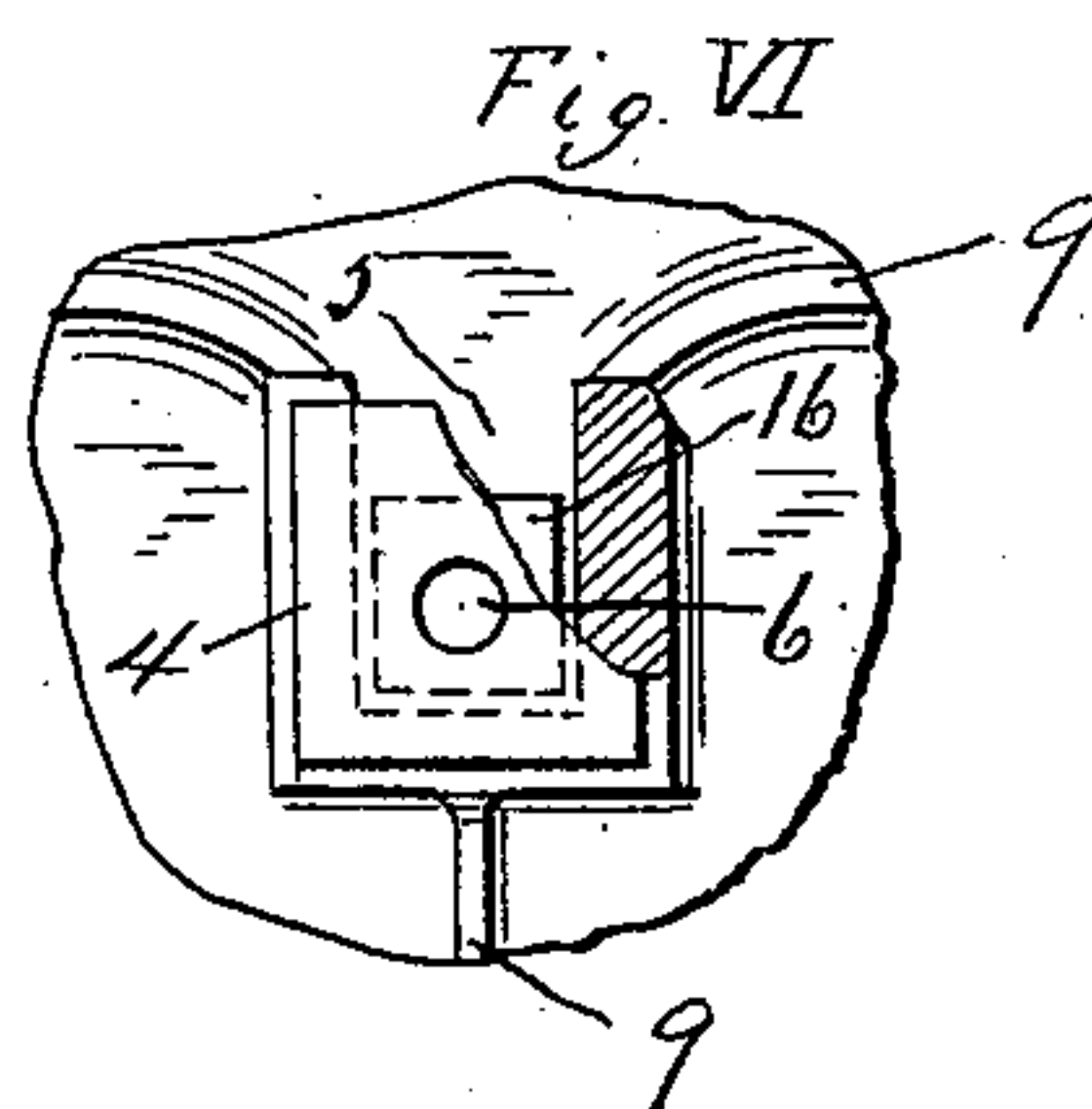


Fig. VI

Witnesses.

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# UNITED STATES PATENT OFFICE.

ALEXANDER OW, OF NEW BRIGHTON, PENNSYLVANIA.

## LEG-FASTENING FOR BATH-TUBS.

SPECIFICATION forming part of Letters Patent No. 619,988, dated February 21, 1899.

Application filed May 9, 1898. Serial No. 680,106. (No model.)

*To all whom it may concern:*

Be it known that I, ALEXANDER OW, of New Brighton, in the county of Beaver, in the State of Pennsylvania, have invented new and useful Improvements in Leg-Fastenings for Bath-Tubs, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to a construction of metallic bath-tubs and similar vessels, particularly those lined with enamel, by which the sustaining-legs are quickly and conveniently secured in position on the tub-body. Its novelty lies in the detailed construction and arrangement of the parts.

My invention will be understood by reference to the accompanying drawings, in which the same reference-numerals indicate the same parts in all the figures.

Figure I is an end elevation of my peculiar tub. Fig. II is an inner elevation of a leg and leg-seat, a portion of the tub-body being shown in section. Fig. III is a vertical section at right angles to the preceding. Fig. IV is a bottom plan of a leg-seat. Fig. V is a top plan view of the leg. Fig. VI is a bottom plan of the projection within the leg-seat, showing a simple modification in form.

1 indicates the metallic body of the tub, on the lower surface of which at the four suitable points to receive the legs 2 2 2 2 are formed integral leg-seats 3 3 3 3, semicircular or of any other desirable form. Centrally of each leg-seat is arranged a projection 4, formed with a slot 5 of convenient size to receive the nut for engaging with the securing-screw. It may be differently formed and arranged, extending through the projection, as shown in Fig. IV, penetrating it from its inner face, as shown in Fig. VI, or otherwise. Screw-hole 6, communicating with slot 5, is formed through lower wall of this projection.

Within the leg-seat are formed depending lugs, as here shown, lug 7 at or near the apex of the leg-seat and lugs 8 8 near its extremities. 9 9 9 are ribs for the purpose of strengthening these lugs and bracing them against the strain and are of importance to prevent cracking of the enamel lining, which is indicated at 10. This leg-seat is finished and slightly inclined downwardly and inwardly, for it will be seen that as the apex or outer

portion extends beyond the flat bottom onto the side curve of the tub if it were made absolutely horizontal this outer portion would be of excessive weight and thickness. The upper margin 11 of the leg 2 is also finished and correspondingly, but reversely, inclined to fit the leg-seat, so as to bring the bottom of the leg horizontal to set square on the floor. Within this upper margin the leg is provided with inwardly-extending lugs, the pair 12 12 forming a slot to receive the apex lug 7 on the tub-body and the opposite lugs 13 13 to engage with the front lugs 8 8. By this construction when the parts are assembled the legs are securely held against slipping, twisting, and all longitudinal and side motion on the tub-body. Integrally with the lug is also formed the inwardly-extending shank 14, provided with the slot 15, with which registers the screw-hole 6 when the parts are assembled. This shank is beveled, so that its thickness diminishes slightly toward the point, decreasing the amount of metal used and affording certain adaptability for the securing-screw.

The tub body and legs thus formed when set in position are secured together by the following simple means: An ordinary nut 16 is set in the opening, with its screw-hole registering with screw-hole 6. A machine-screw 17, having a tapering head 18 and with a washer 19 strung on the screw, is then inserted through said slot and screw-hole to engage with the nut by which the leg is secured firmly against the tub, the washer adapting itself to the inclined lower surface of the shank.

Between the lower surface of the projection 4 and the shank 14 I prefer to insert a washer 20, of rubber, lead, or other compressible material, to fill the space between the parts, that the flat surface of the projection may act as an additional supporting-seat.

It will be seen that this construction of tub and legs is cheap, convenient, and also effectual in holding the parts securely in position. It is preferable to machine the leg-seat and upper margin of the legs that the parts may fit snugly and permit uniform exterior finish without any visible crack at the point. However, fine work is not necessary, the legs and integral lugs adapting themselves to the seats



and lugs on the tub-body and the nut, screw, and washer adapting themselves to slight irregularities in the formation of the parts. This connection of the parts, as described, by means of a screw and nut is particularly convenient, as the screw may be sent home by means of a screw-driver, the nut being held against rotation by the construction of the opening in which it is inserted and the inconvenience of using a wrench in such a location avoided.

Having thus fully described my invention, what I claim, and desire to protect by Letters Patent, is—

1. In combination, in a bath-tub, the body of the tub having at each of four suitable points an integral leg-seat having a continuous outline, downwardly-projecting lugs or projections on the interior only of said leg-seat, a projection integral with the tub-body arranged within said leg-seat and provided with openings to receive a nut and screw, a leg having an upper margin the same in outline as said leg-seat and adapted to be set in position thereon from directly above when the tub is in inverted position, inwardly-projecting lugs within said leg-margin for engaging with said leg-seat lugs, an integral, inwardly-projecting, slotted shank within said leg-margin, and a screw engaging with said slot and said nut, for holding the leg against the tub-bottom.

2. In combination, in a bath-tub, the body having at each of four suitable points an integral leg-seat having a continuous, substantially semicircular outline slightly inclined from the horizontal to correspond to the bottom of the tub, downwardly-projecting lugs or projections on the interior only of said leg-seat, a projection integral with the tub-body arranged centrally within said leg-seat and provided with a recess opening laterally for receiving a nut, and a screw-hole through its lower face into said recess, a leg having an upper margin the same in outline as said leg-seat and adapted to be set in position thereon from directly above, when the tub is in inverted position, said upper margin being adapted to make continuous contact with said leg-seat, inwardly-projecting lugs within said leg-margin for engaging with said leg-seat lugs, and adapted to prevent the lateral motion of the leg with relation to the tub-body, an integral, inwardly-projecting, slotted shank within said leg-margin, and a screw engaging with said slot and with the nut in said recess, for holding the leg against the tub.

3. In combination in an enameled bath-tub, the tub-body formed with four integral leg-

seats, inclining slightly downwardly and inwardly, downwardly-projecting lugs formed integral with each leg-seat and on its inner margin, two at or near the ends, and one near the apex, and arranged centrally within each leg-seat a projection formed with a slot to receive a nut, and a screw-hole through its lower wall communicating with said slot, reinforcing-ribs for said lugs, legs having their upper margins substantially the same in outline as said leg-seats and fitted thereto, integral lugs on the inner surface of said upper margin of each leg and integral therewith, two at or near the apex of the leg-margin, and two at or near the ends of the said leg-margin, adapted to engage with the corresponding lugs on the tub-body, and an inwardly-projecting shank integral with the outer and upper portion of said leg, formed with a slot slightly flaring and adapted to register with the screw-hole in said tub projection, and a nut, screw and washer for securing the legs to the tub-body.

4. In combination in a bath-tub, the tub-body formed at four suitable points with integral leg-seats substantially of semicircular form inclined downwardly and inwardly, downwardly-projecting lugs integral with each leg-seat and arranged on the inner surface thereof, one at or near the apex, and two at or near the ends of each, a projection arranged centrally within each leg-seat and formed with a slot to receive a nut, and with a screw-hole communicating with said slot, integral reinforcing-ribs for said lugs extending from said central projection to the inner surface of each of said lugs, legs having upper margins substantially the same in outline as said leg-seats and fitted thereto, integral lugs on the inner surface of each upper margin arranged in pairs, two at or near the apex engaging on both sides of said apex lug on the tub, and two at or near the inner ends of said margin adapted to engage on the inner side of said inner lugs on the tub-seat, a shank integral with the outer and upper projection of said leg extending inwardly from the apex thereof and provided with a slot adapted to register with the screw-hole in said projection when the legs are set in position on the tub, and a nut and screw for securing the legs to the tub.

In testimony whereof I have hereunto signed my name.

ALEXANDER OW. [L. S.]

Witnesses:

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H. M. SEAMANS.