

(No Model.)

J. CLIFFORD & P. L. SUTTER.

BATH TUB, &c.

No. 541,068.

Patented June 18, 1895.

FIG. 1.

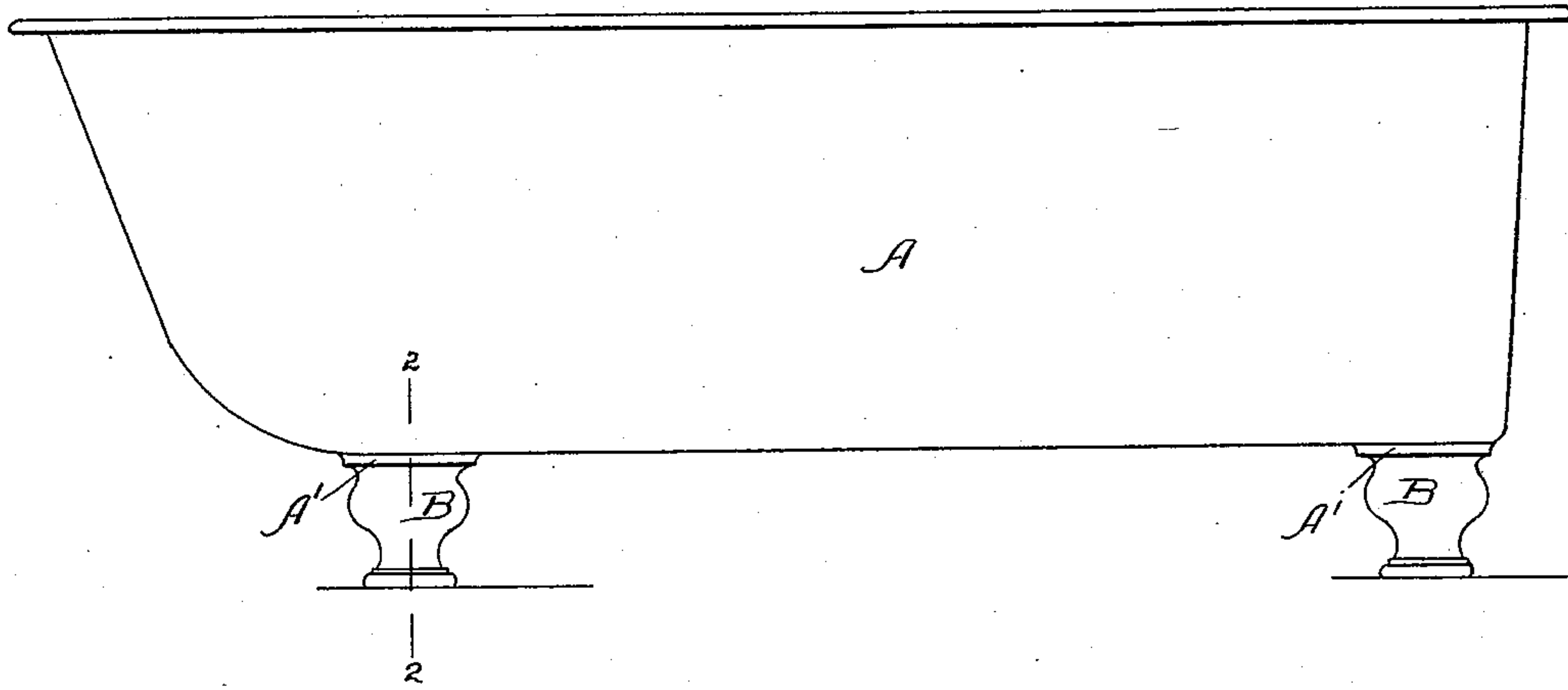


FIG. 2.

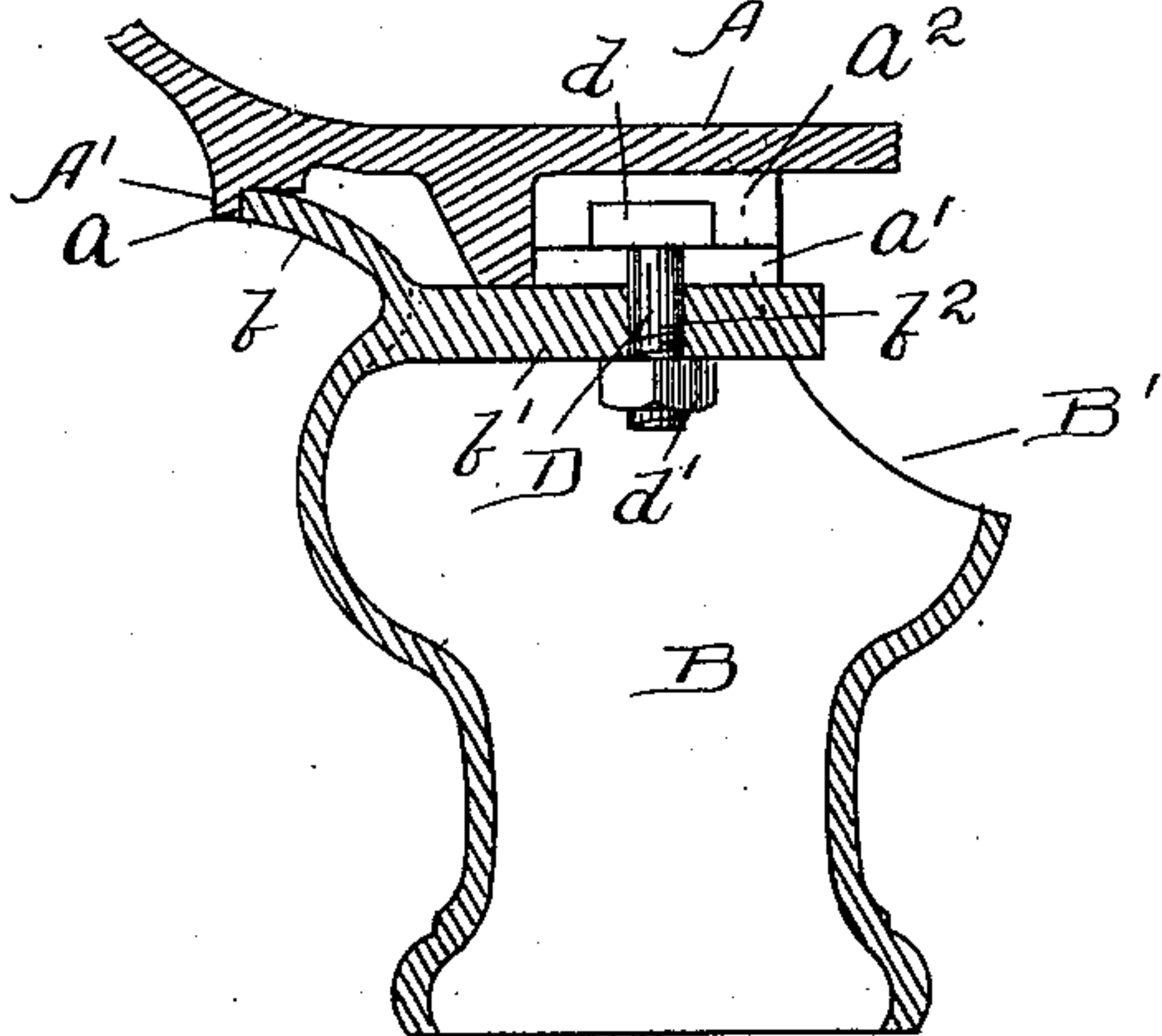


FIG. 3.

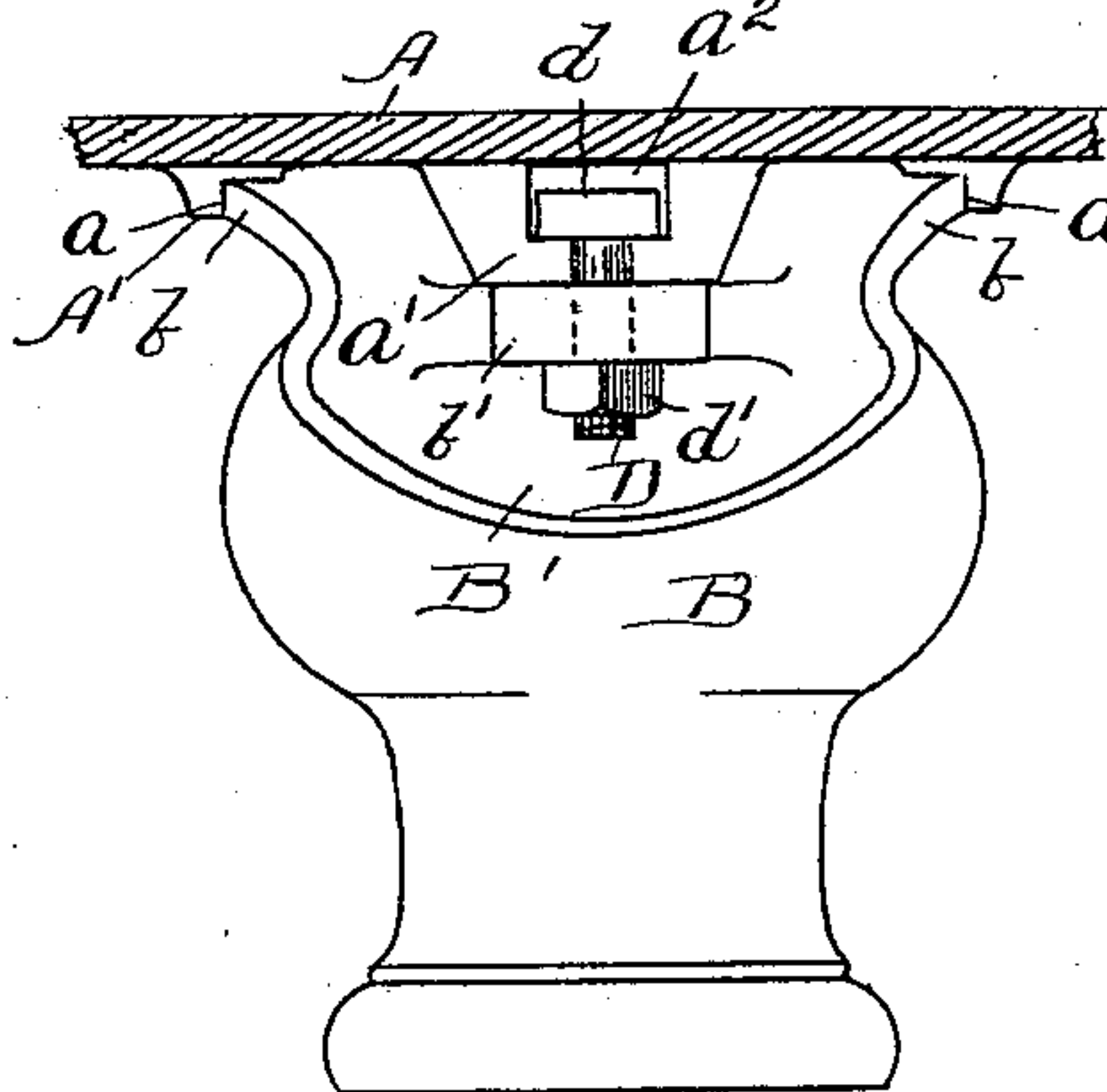


FIG. 4.

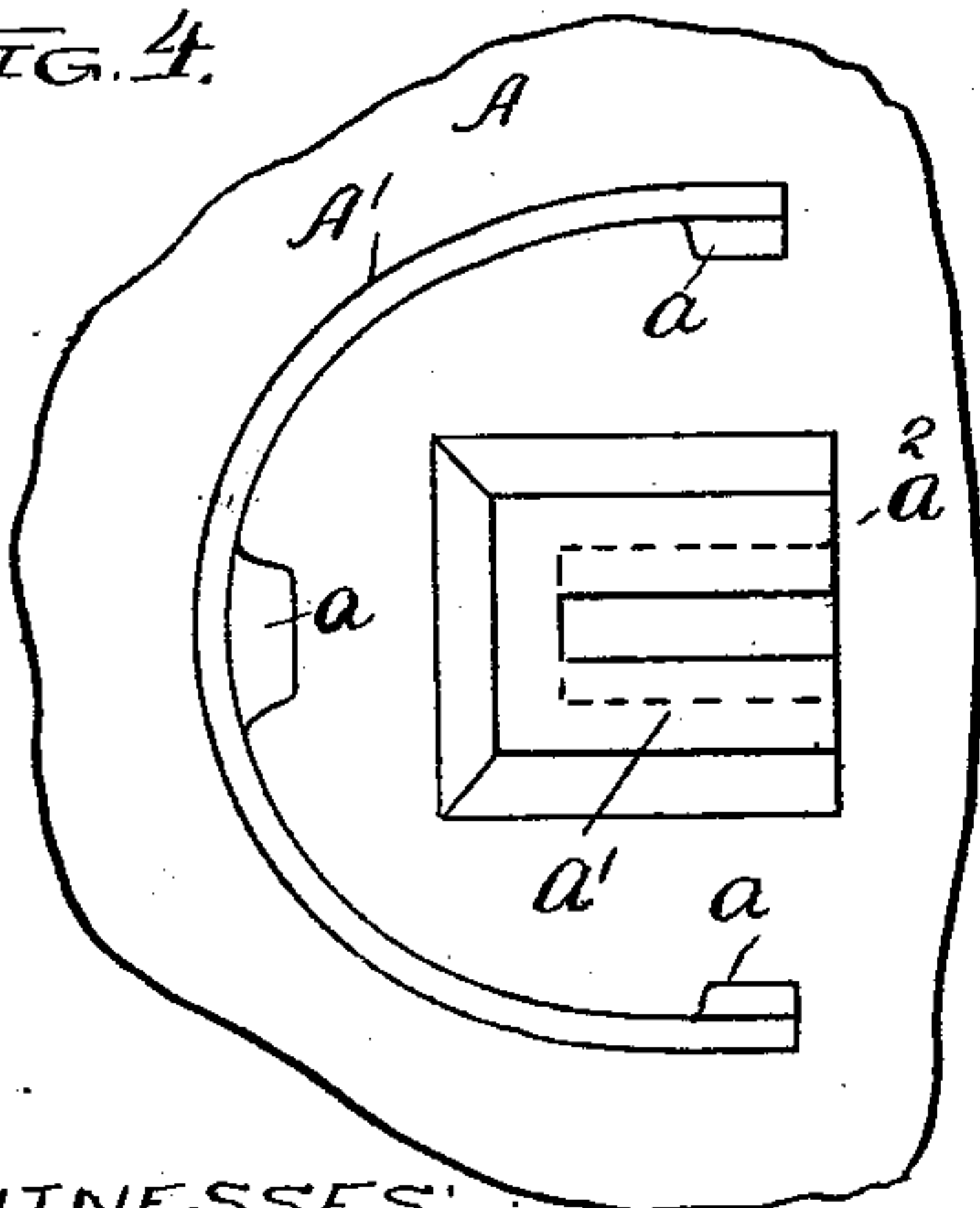
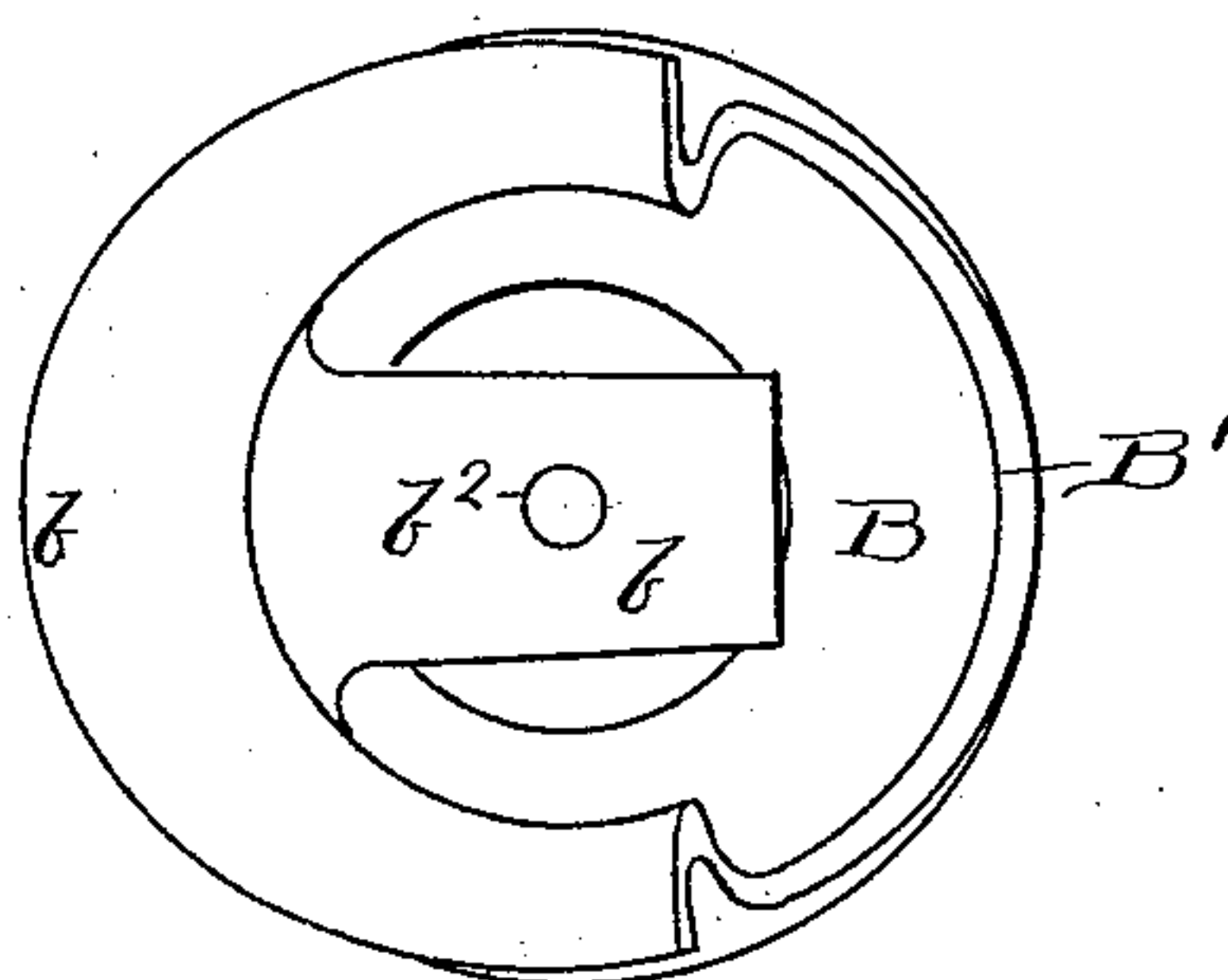


FIG. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN CLIFFORD AND PETER LOUIS SUTTER, OF CHICAGO, ILLINOIS, ASSIGNORS TO THE L. WOLFF MANUFACTURING COMPANY, OF SAME PLACE.

BATH-TUB, &c.

SPECIFICATION forming part of Letters Patent No. 541,068, dated June 18, 1895.

Application filed January 21, 1895. Serial No. 535,583. (No model.)

To all whom it may concern:

Be it known that we, JOHN CLIFFORD and PETER LOUIS SUTTER, citizens of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Bath-Tubs or other Vessels, of which the following is a specification.

Our invention relates to the construction of bath tubs or other vessels supported upon legs.

Heretofore the legs for supporting enameled iron bath tubs and other like vessels used in plumbing have usually been furnished with a head fitting in a dovetail groove or socket formed on the outside or bottom of the vessel, the legs being applied by slipping or driving them from outward inward until the dovetail head on the leg fits snugly in its dovetail socket on the tub or vessel. Owing to unavoidable variations in the fitting of the dovetail heads and sockets a projecting shoulder is frequently left at the joint between the leg and tub, and it is very difficult to bring the leg and tub flush with each other, and more or less of a crack or crevice between the leg and the tub is also unavoidable. This renders it impossible to give the tub a neat, smooth and continuous finish at the junction between the leg and tub, and is a serious objection, practically, especially where the tub or vessel is given a decorated or ornamental finish on the outside. In addition to this a great deal of time, labor and expense are required to properly fit the dovetail legs and dovetail sockets to each other; and even when this is done with care the legs are sometimes liable to get loose and fall out and occasion serious trouble and damage by wrenching, straining or injuring the plumbing connections of the tub, especially if a person happens to put his weight in or upon the tub when one of its legs should be off.

The object of our invention is to provide a neat, simple, durable and efficient construction, which may be rapidly and conveniently fitted and applied, and by which the difficulties heretofore experienced may be overcome.

In our invention in order to give the tub or vessel a neat exterior finish without any unsightly shoulder or crevice between the leg

and tub, we adapt the leg to be applied by slipping it from inward outward, and provide the tub or vessel with a downwardly projecting skirt surrounding and hiding from view the top plate or crown of the leg and the joint between the same and the leg seat on the tub or vessel; and in order at the same time to securely hold and fix the removable leg firmly to the tub or vessel so that it cannot become loose or fall off accidentally we provide the tub or vessel with a projection having a T groove or slot or other shaped slot adapted to receive the head and shank of a screw threaded bolt which is inserted through the central tongue or plate of the leg. As in our construction the leg has no dovetail head fitting in a dovetail socket in the tub or vessel, (which in the ordinary construction prevents any tendency of the leg to turn,) we make the outer crown of the leg which fits within the skirt on the tub oval or eccentric or non-circular in respect to the bolt as a center to prevent any tendency or possibility of the leg turning on the bolt as a center.

The tub is provided with seats, shoulders or bearings for the outer crown or edge of the leg to bear against, so that the leg is given a firm and extensive bearing against the tub or vessel. The threaded bolt and its nut thus serve to hold the leg firmly and securely in place, preventing all danger of the leg coming off or getting loose, and as the bolt is centrally located in respect to the leg and to its seat or bearing against the tub or vessel the weight of the tub or vessel thus causes no injurious strain upon the bolt and its nut.

In the accompanying drawings, which form a part of this specification, Figure 1 is a side elevation of a device embodying our invention. Fig. 2 is an enlarged central vertical section of one of the legs. Fig. 3 is a rear view of one of the legs—that is to say, a view looking from inward outward. Fig. 4 is a plan or bottom view of the tub, showing one of the leg-seats thereon; and Fig. 5 is a top or plan view of one of the legs.

In the drawings A represents a bath tub or other vessel supported on legs, the same preferably being, as indicated in the drawings, of cast iron, enameled.

B B are the legs by which the vessel is sup-

ported, the same being preferably of cast iron or other metal, and each made hollow with a cut away portion or opening B' at the back. Each of the legs B is furnished with a top plate, shoulder or crown b constituting the outer or marginal seat or bearing of the leg against the corresponding or marginal seat or bearing a on the tub or vessel A . The leg B is further provided with a centrally projecting tongue or plate b' constituting the central seat or bearing of the leg against the corresponding central seat or bearing a' on the tub or vessel A . The central seat or bearing a' consists of a projection integrally cast upon the vessel A , and it is provided with a T or other suitably shaped slot or groove a^2 to receive the head d of the bolt D , which is inserted through a hole b^2 in the tongue or plate b' . The open back B' of the leg B permits the nut d' of the bolt D to be screwed up tight after the leg has been inserted in place by slipping it from inward outward.

The tub or vessel A is provided with a downwardly projecting skirt A' cast integral with the vessel against which the outer edge of the top plate or crown b of the leg B fits, and by which said top plate or crown is concealed from view as well as also the horizontal joint between the same and the outer or marginal seat a therefor on the tub. The skirt A' also serves as a guard or guide to get the leg in proper position and also as a means for holding the leg from turning on the bolt D as a center, as this marginal skirt A' is made of other shape than a true semi-circle about the bolt as a center, the same being, as illustrated in the drawings, preferably of a semi-oval or semi-elliptical shape. However it will be obvious to those skilled in the art that the leg may be prevented from turning about the bolt as a center by making the skirt A' of any other suitable shape in whole or in part not a circle about the bolt as a center; or the leg may be provided with other projections or means for preventing its turning.

The slot or groove a^2 for the bolt in one of the two superimposed members, $a' b'$, permits the leg B , with the bolt D inserted through its tongue b , to be slipped from inward outward into position, so that its bearing plate or crown b rests properly against the seat a and skirt A' of the vessel A . This slot for the bolt we prefer to form in the part a' instead of in the part b' as the bolt may be readily inserted through a simple hole in the part b' .

We claim—

1. The combination with a bath tub or other vessel having an imperforate wall at the point where the leg is applied, and provided with a

leg seat a and central projection a' having a T -slot a^2 to receive the head of a bolt, of a leg B provided with open back B' and having a bearing plate or crown b and a tongue b' , a bolt D inserted through said tongue and having its head fitting in said slot, and a marginal skirt A' on the vessel, surrounding the leg and its seat at the front thereof, and having its inner face fitting against the outer edge of said bearing plate or crown b and concealing from view the joint between the two, substantially as specified.

2. The combination with a bath tub or other vessel having an imperforate wall at the point where the leg is applied, of a leg for supporting it and a bolt for securing the leg in place, the tub or article being provided with a marginal seat and a central projection having a slot to receive the head and shank of the bolt, and the leg being provided with a marginal crown or bearing plate and a central tongue or bearing plate through which the bolt is inserted, said slot permitting the leg to be slipped from inward outward into position against said marginal seat, substantially as specified.

3. The combination with a bath tub or other vessel provided with a downwardly projecting integral skirt surrounding the leg seat at the front thereof, of a leg secured to the vessel within said skirt, the outermost margin or crown of the leg fitting against the inner face of said skirt so that the skirt conceals from view the joint between the skirt and leg, the lower edge of said skirt being flush with the under surface of said crown or margin of the leg, substantially as specified.

4. The combination with a bath tub or other vessel having an imperforate wall at the point where the leg is applied, of a leg for supporting it and a bolt for securing the leg in place, the tub or article being provided with a marginal seat and a central projection having a slot to receive the head and shank of the bolt, and the leg being provided with a marginal crown or bearing plate and a central tongue or bearing plate through which the bolt is inserted, said slot permitting the leg to be slipped from inward outward into position against said marginal seat, and a marginal integral skirt A' on the vessel surrounding the marginal crown or bearing plate of the leg, said marginal skirt and crown or bearing plate being oval or eccentric to said bolt as a center, substantially as specified.

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Witnesses:

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