

No. 712,022.

Patented Oct. 28, 1902.

G. E. UNDERHILL.
WATER CLOSET.

(Application filed May 1, 1900.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

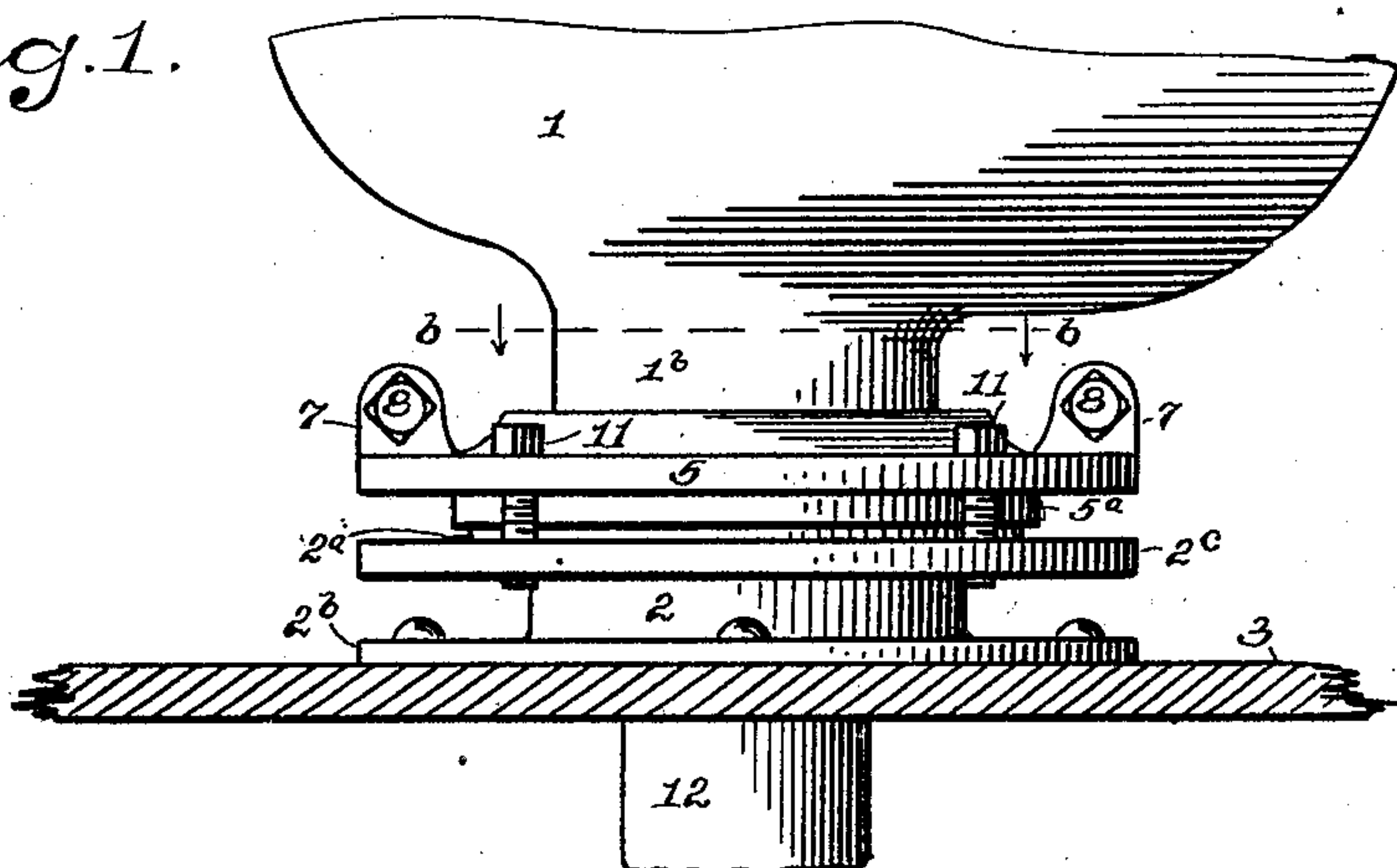


Fig. 2.

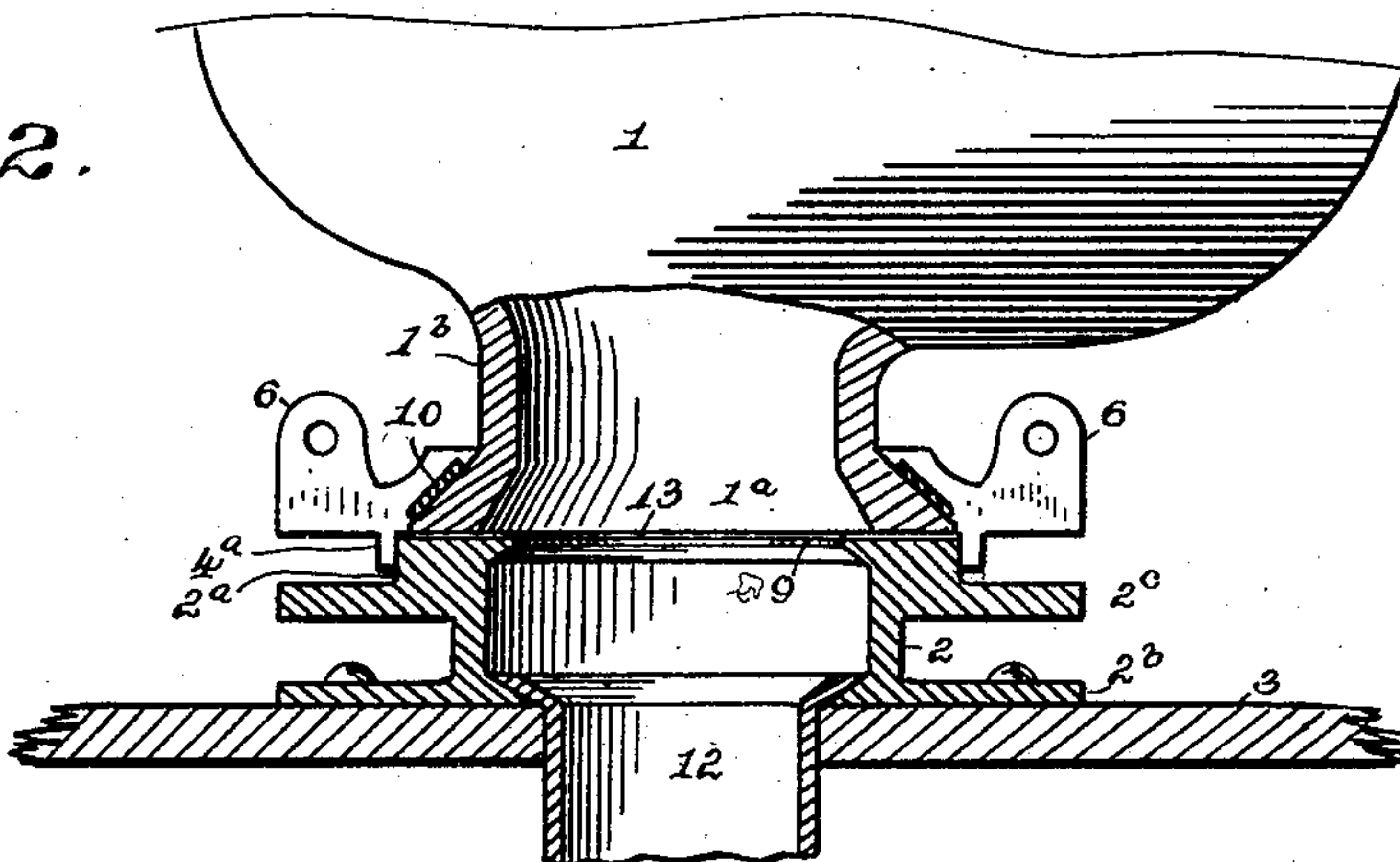
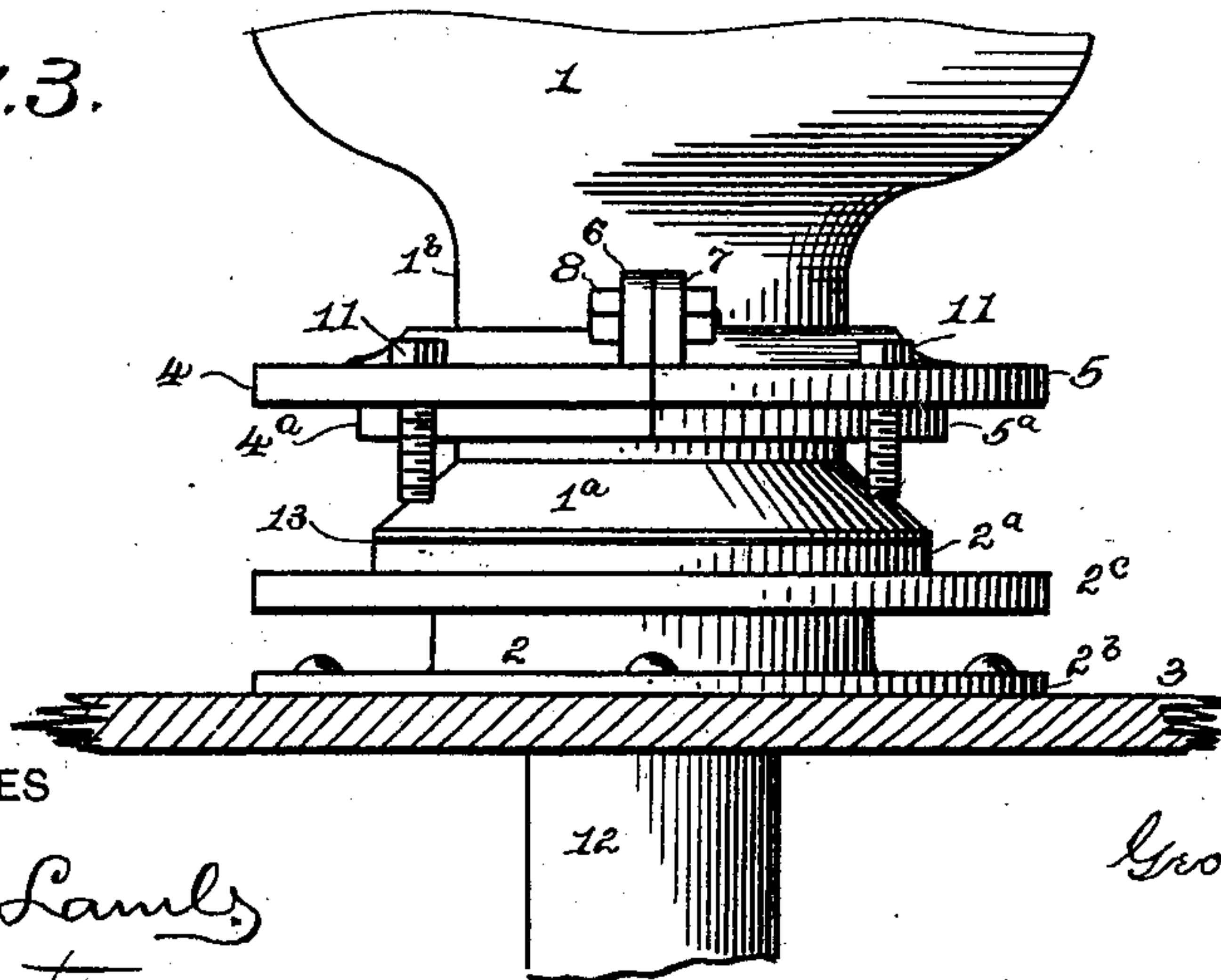


Fig. 3.



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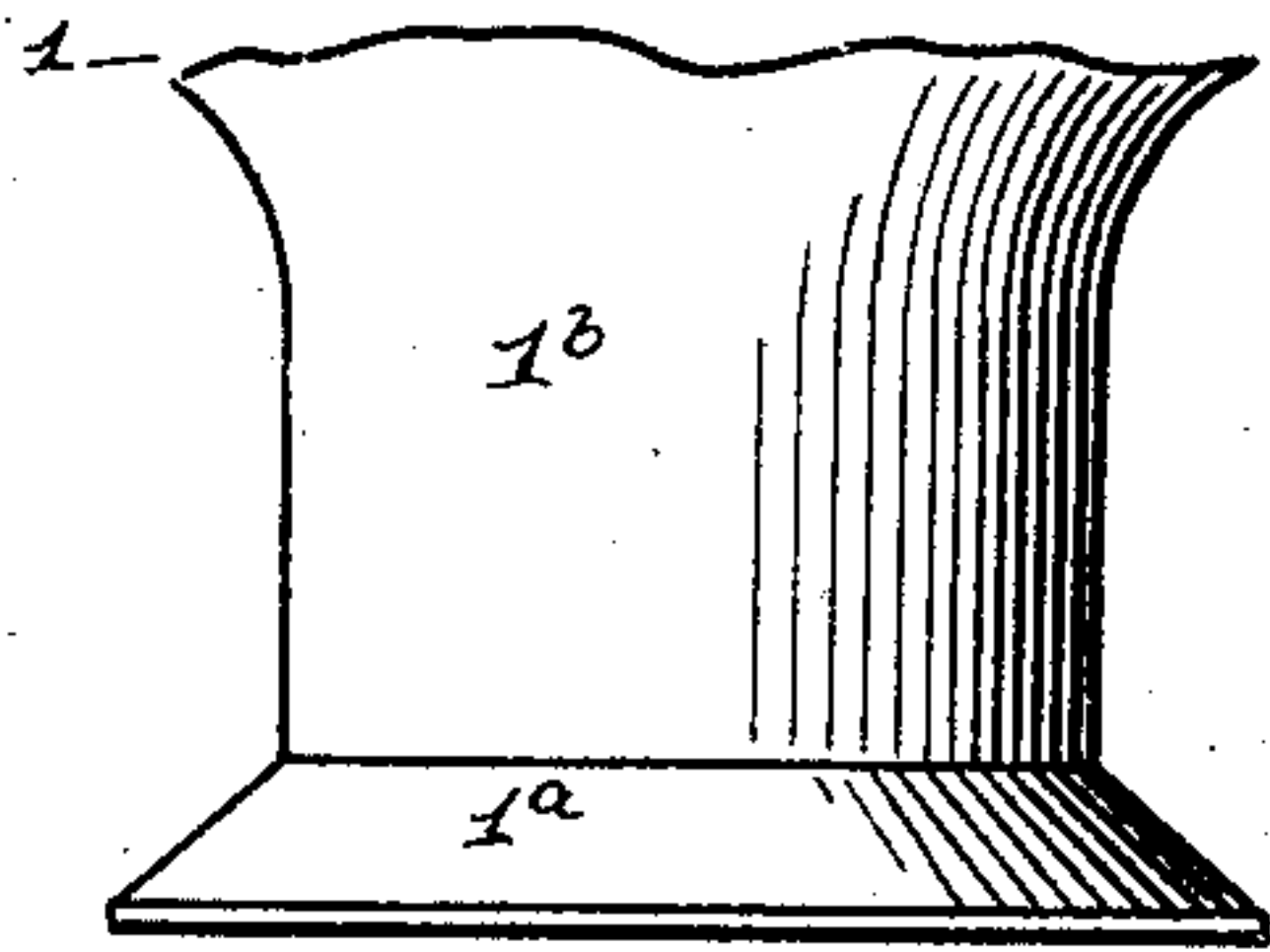
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2 Sheets—Sheet 2.

Fig. 4.



Fing. 5.

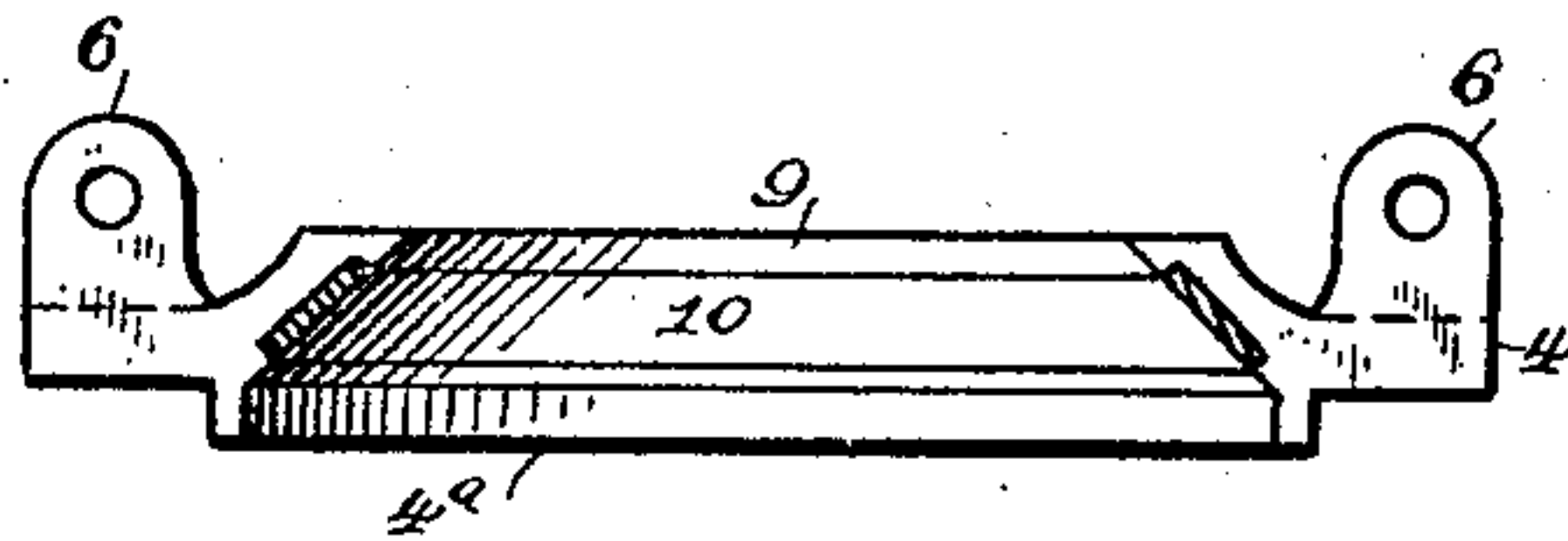
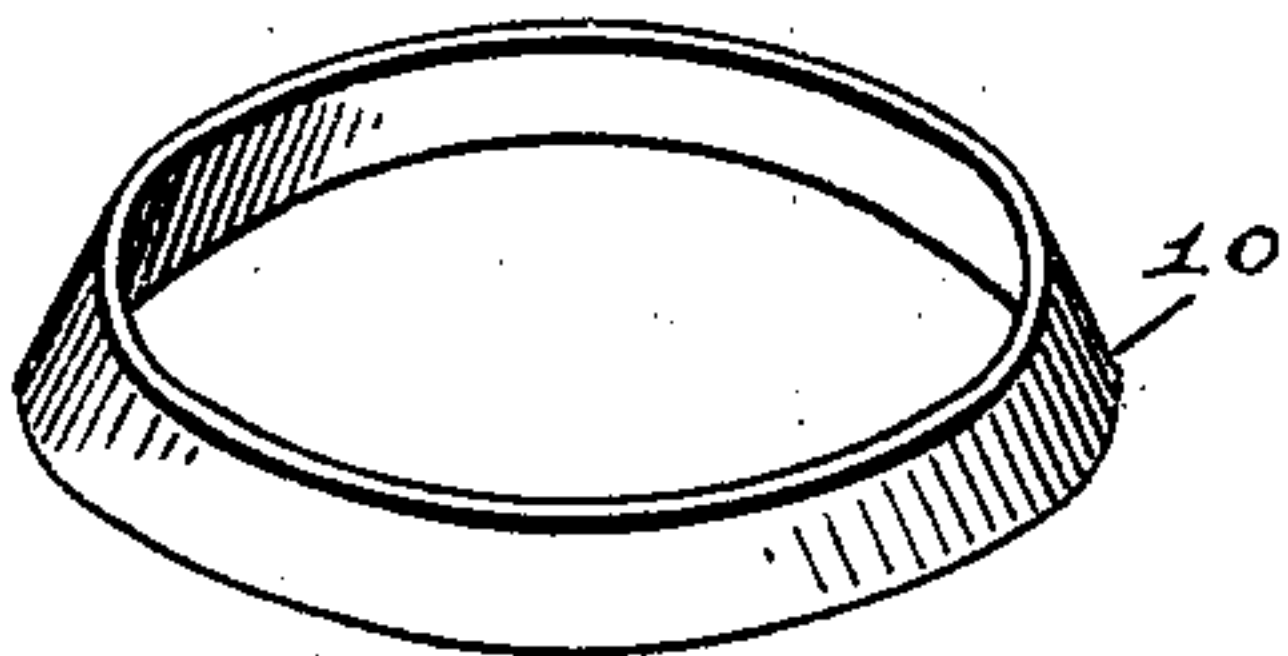


Fig. 8.



Fing. 6.

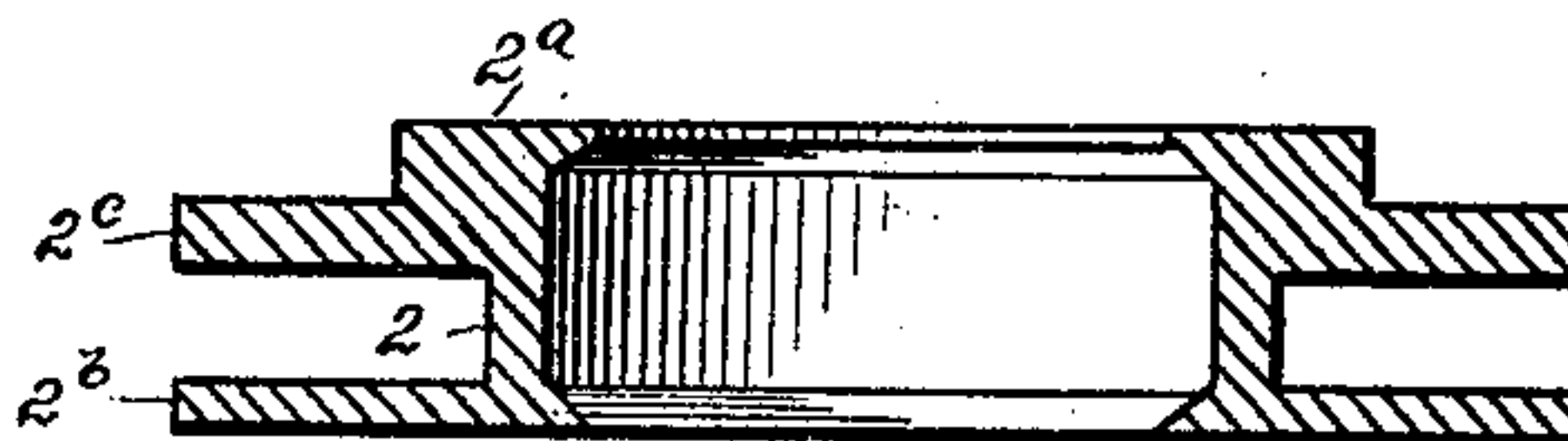


Fig. 9.

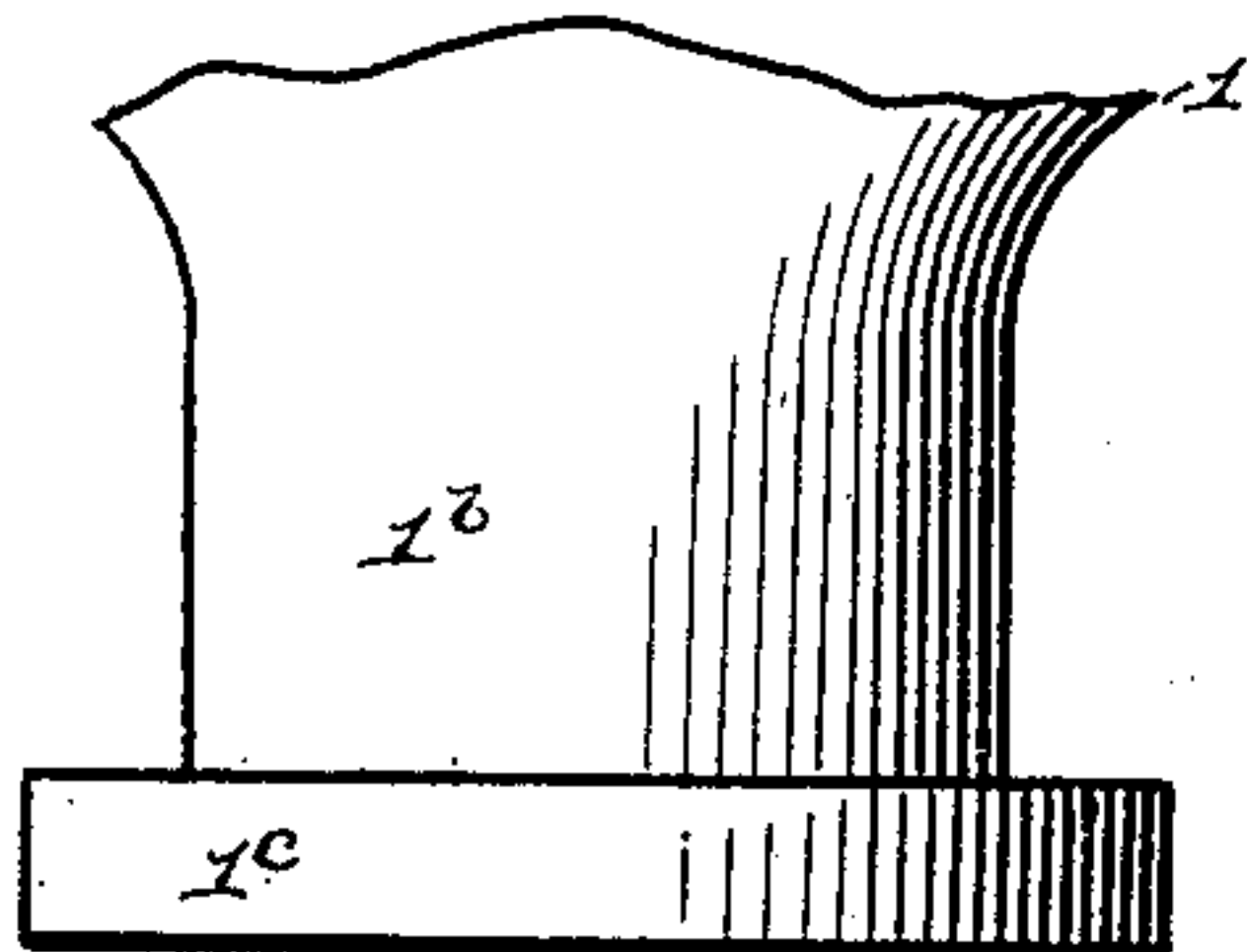


Fig. 7.

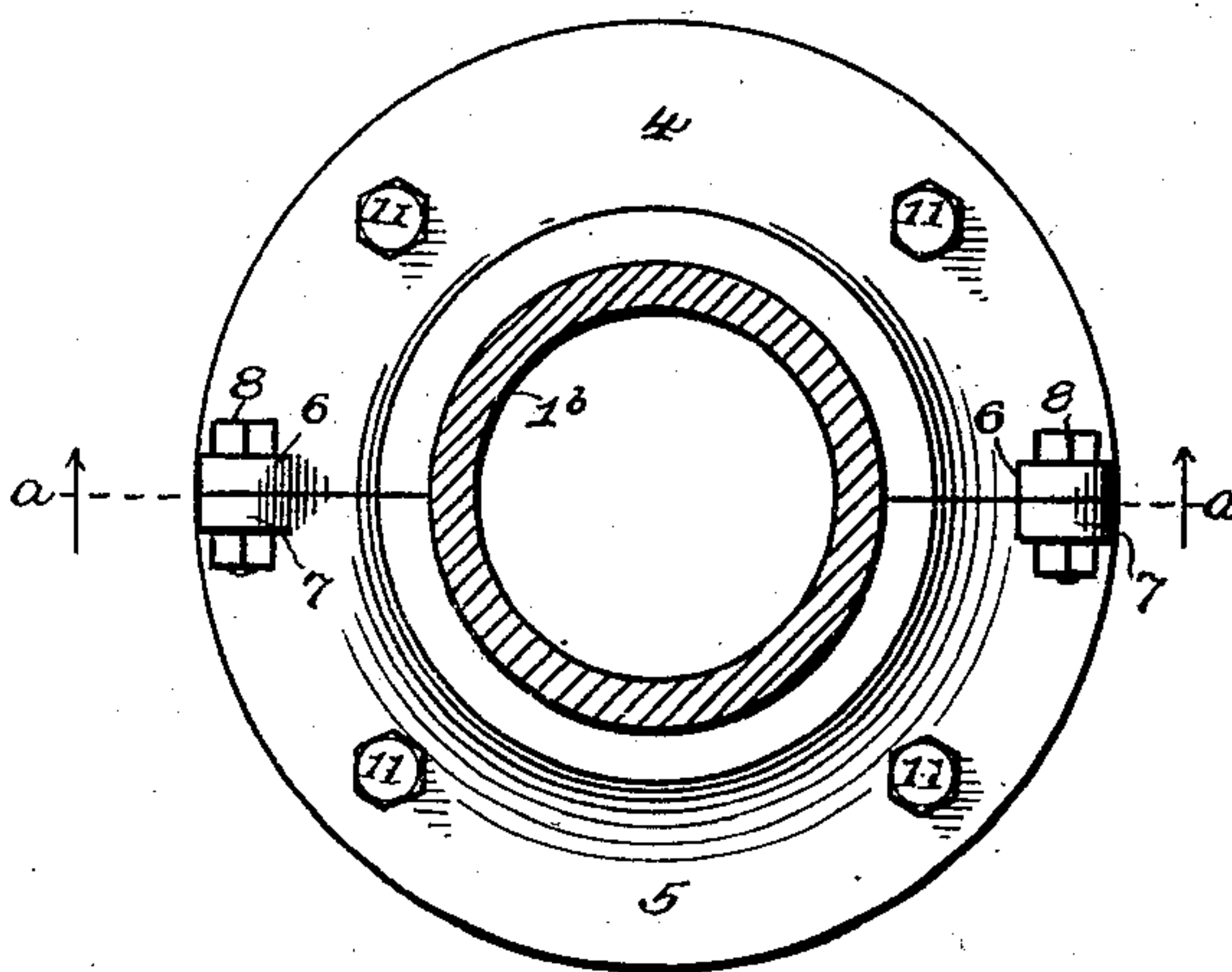
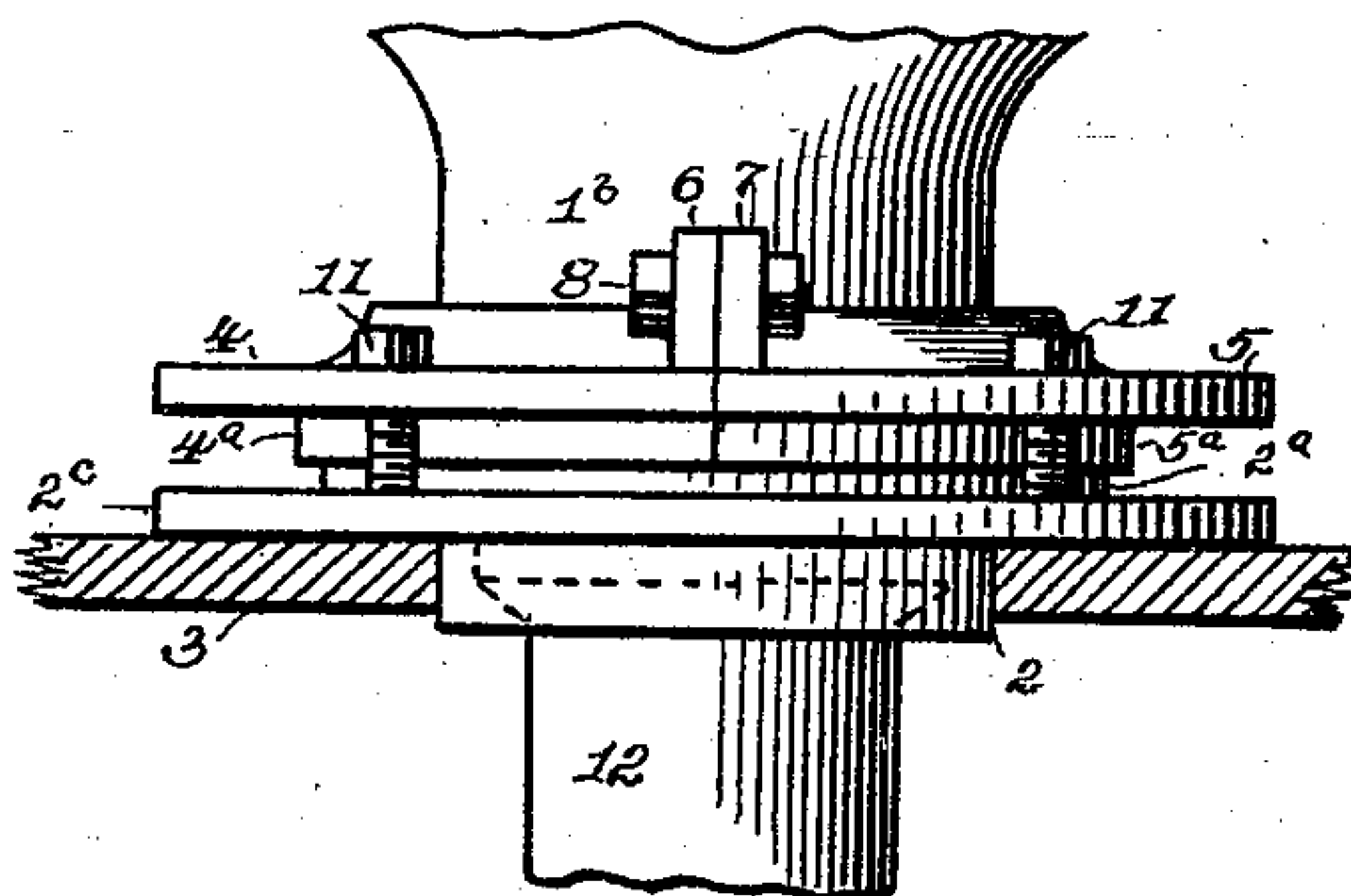


Fig. 10.



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UNITED STATES PATENT OFFICE.

GEORGE E. UNDERHILL, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR, BY
MESNE ASSIGNMENTS, TO THE SANITARY COUPLING COMPANY, OF
BRIDGEPORT, CONNECTICUT, A CORPORATION OF DELAWARE.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 712,022, dated October 28, 1902.

Application filed May 1, 1900. Serial No. 15,034. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. UNDERHILL, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification.

My invention relates to an improvement in water-closet connections, whereby the bowl is safely and securely attached to a separable metal base adapted to be secured to the floor.

To enable others to understand my invention, reference is had to the accompanying drawings, in which—

Figure 1 represents a broken view of a water-closet bowl secured to a metal base by my improved clamping ring or collar. Fig. 2 is a central sectional view of Fig. 1 through line *a a* of Fig. 7. Fig. 3 is a view similar to Fig. 1, but showing the clamping-collar detached from the metal base and elevated above the same. Fig. 4 is a detail broken view of the porcelain closet-bowl, showing the peculiar construction of the foot adapted particularly for my improved clamping device. Fig. 5 is a side elevation of one of the clamping-collar sections and section of the lead ring adapted to bear against the outer surface of the foot of the bowl. Fig. 6 is a detail central sectional view of the metal base and soil-pipe attached thereto. Fig. 7 is an upper plan view through *bb* of Fig. 1. Fig. 8 is a perspective view of the circular lead bearing-ring for the interior of the clamping-collar. Fig. 9 is a modified form of the foot of the bowl. Fig. 10 is a modification of the metal base, broken view of the bowl supported thereon by means of the same style of clamping-collar shown in the other views.

Its construction and operation are as follows: 1 represents the closet-bowl. In all the views, except Figs. 8 and 9, the foot of the bowl is provided with the taper sides 1^a , adapted to be engaged by a corresponding taper on the clamping-collar, presently to be described. This foot is adapted to rest on the top of the flanged metal base 2. For this purpose the raised surface 2^a is provided, as

shown at Fig. 6. The bottom flange 2^b is adapted to be secured to the floor 3, as shown at Figs. 1, 2, and 3. The clamping-collar is adapted to hold the bowl firmly to the metal base, and such collar is composed of the two sections 4 and 5. The meeting faces of these sections are trued off, so as to make a close-fitting joint. Ears 6 and 7 are provided to receive the bolts 8, whereby such sections are firmly held together. 9, Fig. 5, is a large opening adapted to loosely fit the neck portion 1^b of the bowl. The interior of each of the said clamping-collar sections is tapered to correspond with the taper face of the foot of the bowl, and such taper face is slightly recessed to receive the lead bearing-ring 10 shown at Fig. 8.

4^a and 5^a are skirts adapted to embrace the projection 2^a of the metal base, and thus prevent lateral displacement of the collar and bowl.

The sections 4 and 5 are first bolted together about the neck 1^b of the bowl, loosely embracing the same, and when the foot of the bowl is properly seated, Fig. 3, the collar thus formed is dropped, so that the lead bearing-ring 10 will rest on the inclined surface 1^a of the foot, as shown at Fig. 2. Then the threaded bolts 11 are engaged with threaded holes in the upper flange 2^c of the metal base to draw said collar firmly down upon the tapered or flanged foot of the bowl and hold the same securely in place. While the collar would hold equally as well without the lead ring 10, there would be danger of cracking the thin porcelain foot by the heavy pressure of the hard-metal collar when brought directly in contact therewith.

In Fig. 9 is shown a modification of the form or shape of the foot, which consists of the flange 1^c . In using this form of foot the under side of the clamping-collar will of course be made to conform thereto.

In Fig. 10 is shown a modification of the metal base, wherein the lower flange of the double-flanged metal base shown in the other views is removed and the upper flange 2^c is made to rest on the floor. In this construction the body portion of the metal base pro-

jects through the floor, and to which is secured the soil-pipe 12.

13 is a packing of soft lead placed between the foot of the bowl and the metal base.

5 I do not claim as of my invention anything shown, described, or claimed in the application of Isaac W. Day, filed December 6, 1899, Serial No. 739,380.

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

1. In a water-closet connection, the combination, with a metal base adapted to rest on the floor, and having a central bore and means 15 provided therein for securely attaching the soil-pipe thereto, a bowl having a flanged foot adapted to rest on said metal base, a two-part clamping-collar bolted together and loosely embracing the neck of the said bowl, means on 20 the under side of said collar to engage with the foot of the bowl, and means for securing said collar firmly to said metal base, for the purpose set forth.

2. A water-closet connection consisting, in 25 combination with a metal bowl, supporting-base adapted to rest on the floor, of a bowl provided with a flanged foot adapted to rest on said base, a two-part clamping-collar firmly

bolted together about the neck portion of said bowl above said foot and loosely embracing 30 said neck, said clamping-collar adapted to be brought down and rest upon the flanged foot of the bowl and means for securing said collar to said base and thus hold the bowl firmly on its support, for the purpose set forth. 35

3. A water-closet connection, consisting of a metal base adapted to rest on the floor, a bowl provided with a flanged foot adapted to rest on said base, a clamping-collar loosely secured about the neck portion of said bowl 40 and adapted to rest on said foot, a lead bearing-ring between the meeting faces of said foot and collar, means provided on both said collar and supporting-base whereby the lateral displacement of the bowl is prevented, 45 and means whereby said collar is secured to said base and the bowl thus held firmly to its support by the downward pressure of said collar, for the purpose set forth.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 28th day 50 of April, A. D. 1900.

GEORGE E. UNDERHILL.

Witnesses:

SAMUEL G. MEEKER,
ISAAC M. STETSON.