

No. 803,833.

PATENTED NOV. 7, 1905.

J. F. LAMB.
MIXING VESSEL.
APPLICATION FILED APR. 8, 1905.

Fig. 1

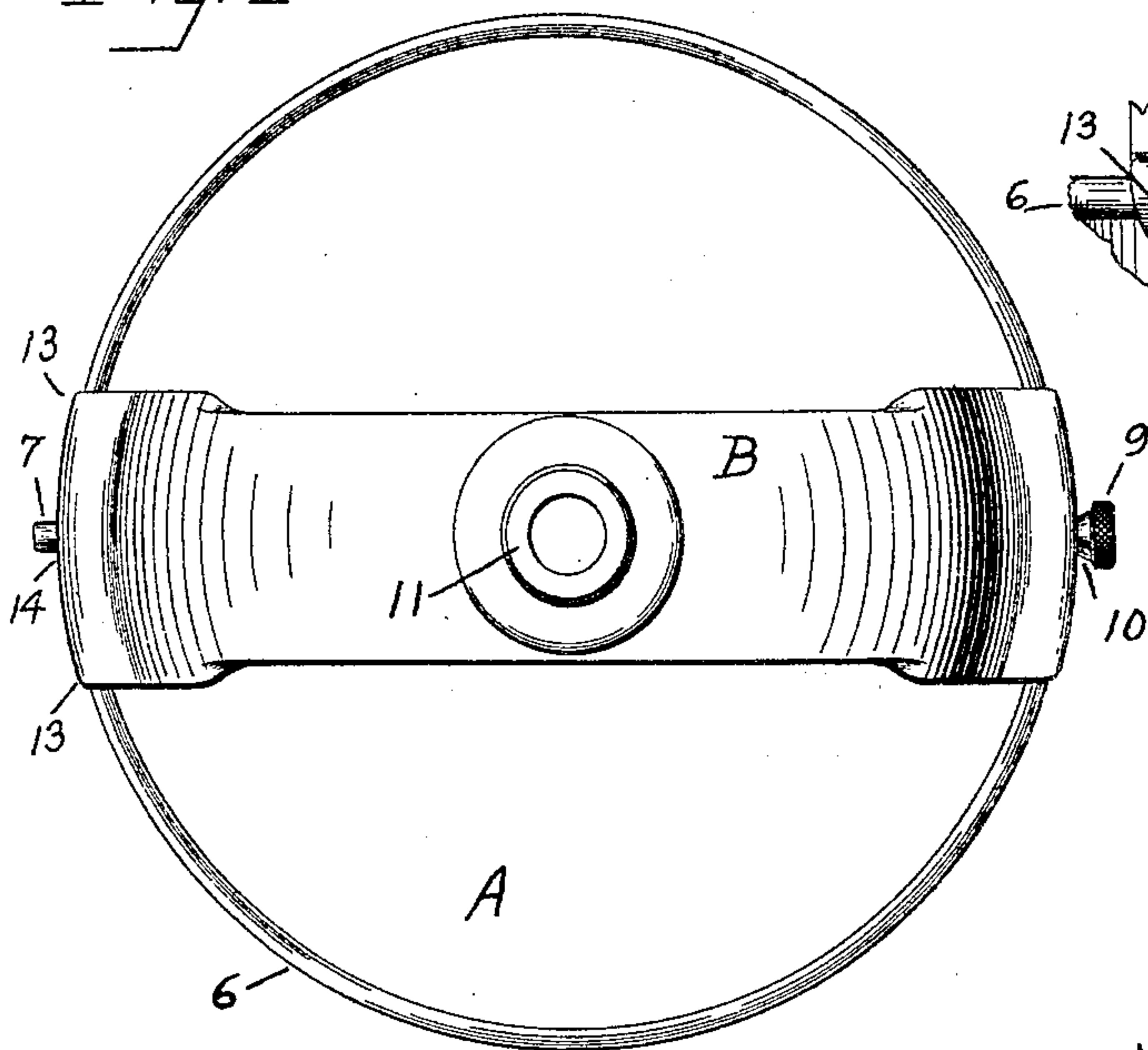


Fig. 3

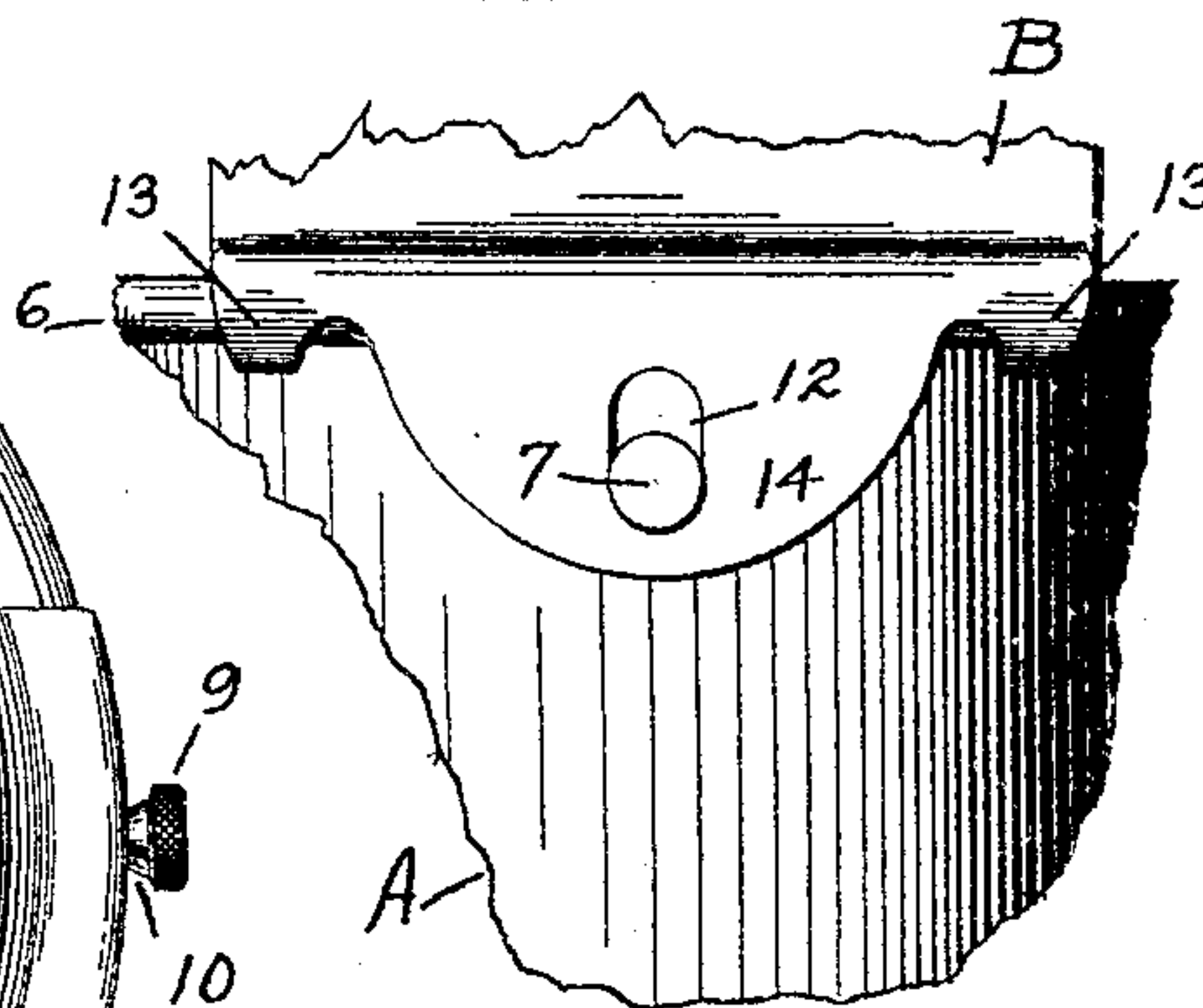


Fig. 4

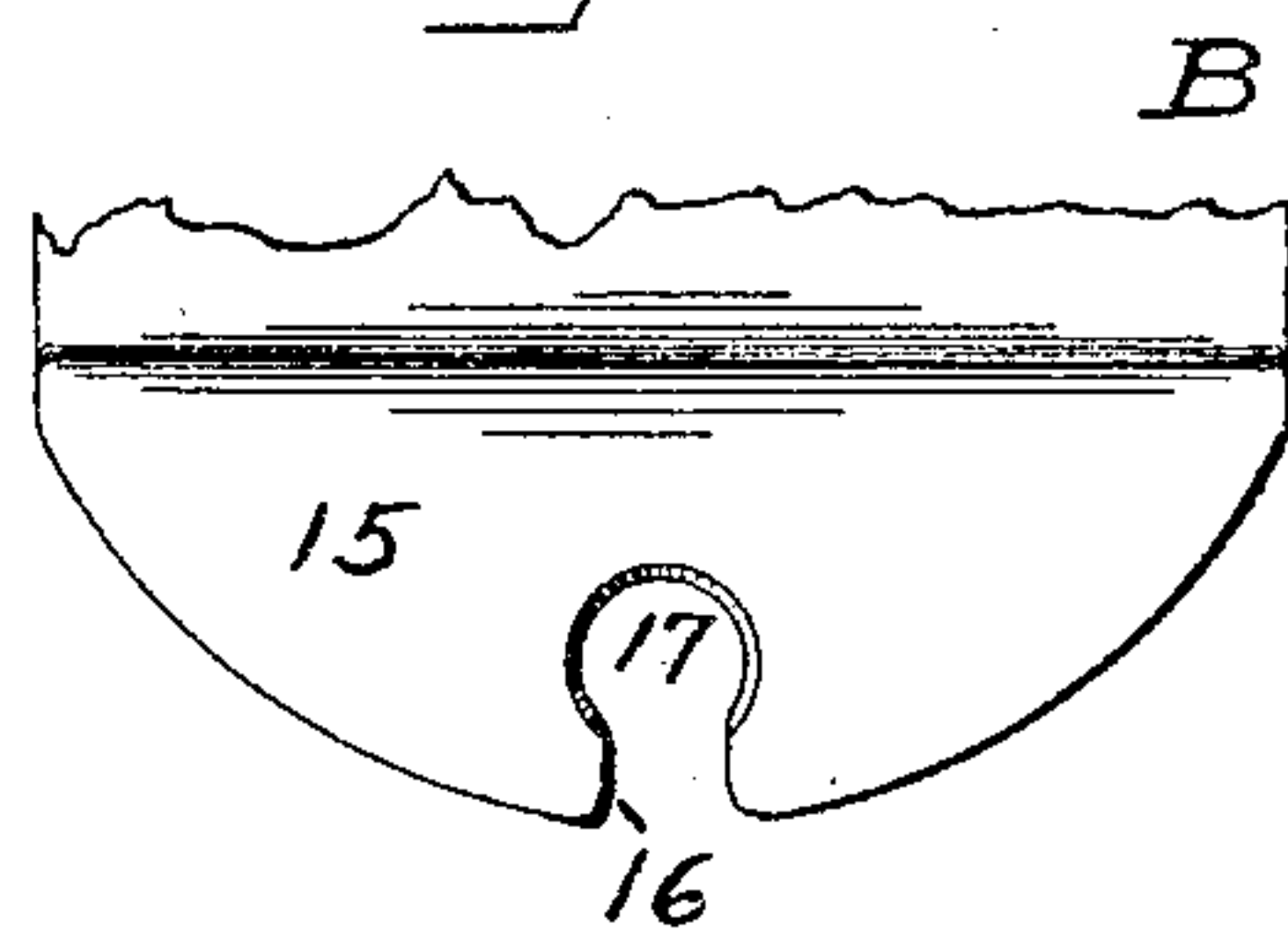


Fig. 2

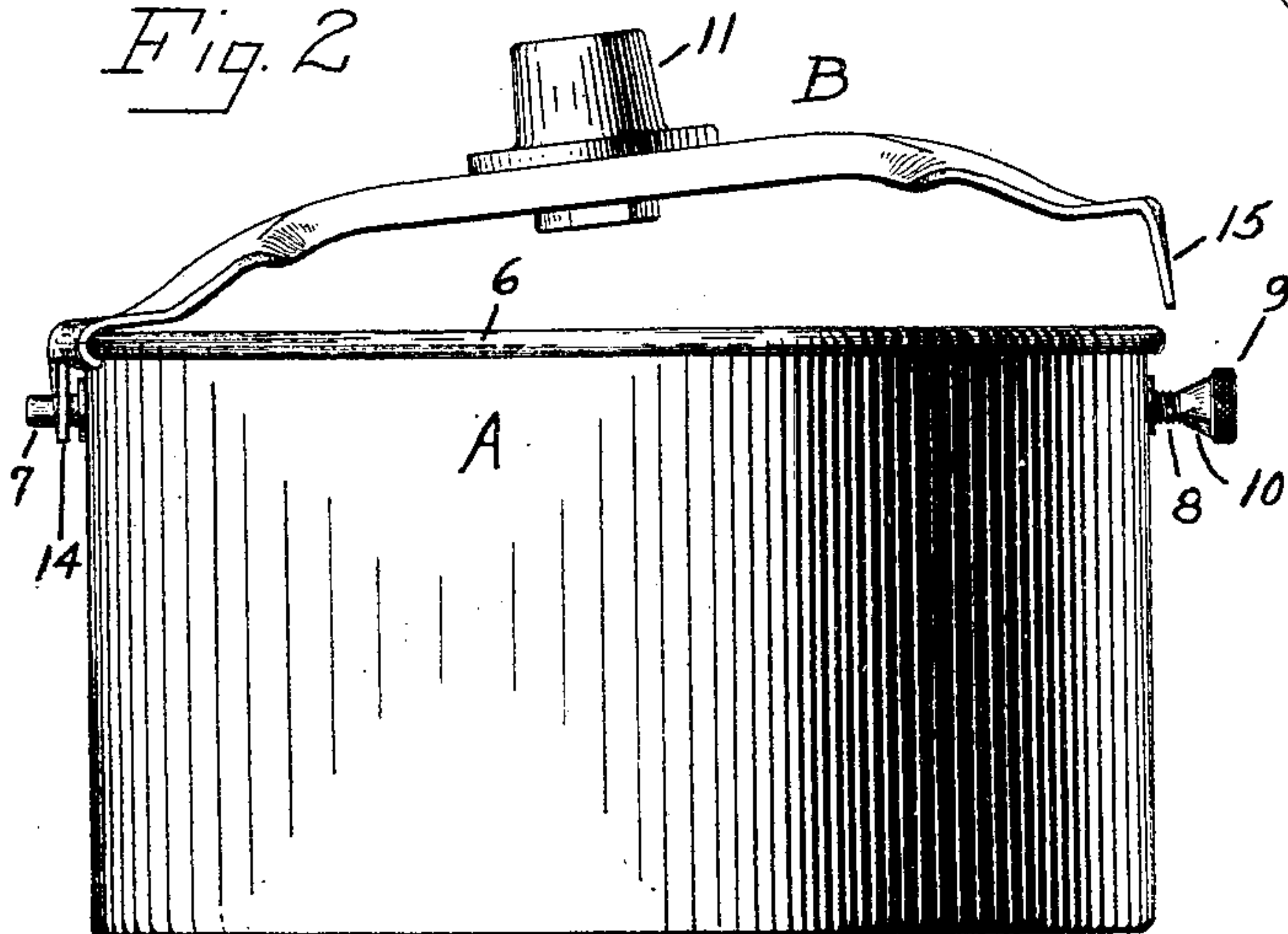
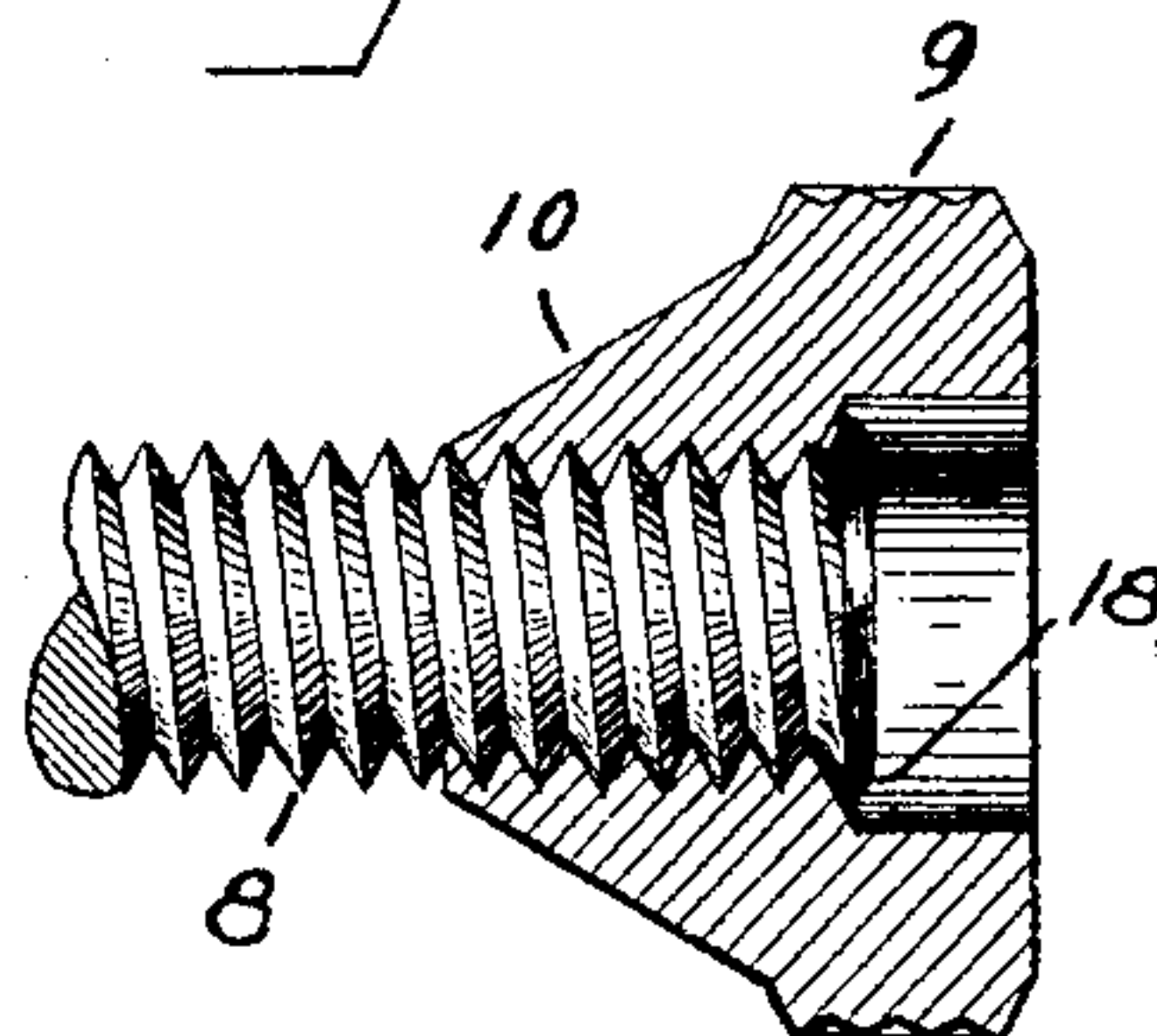


Fig. 5



Witnesses.
Fred E. Potter.
Frank J. O'Brien

Inventor.
Joseph F. Lamb.
By James Shepard
Atty.

UNITED STATES PATENT OFFICE.

JOSEPH F. LAMB, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO
LANDERS, FRARY & CLARK, OF NEW BRITAIN, CONNECTICUT, A
CORPORATION.

MIXING VESSEL.

No. 803,833.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed April 8, 1905. Serial No. 254,490.

To all whom it may concern:

Be it known that I, JOSEPH F. LAMB, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Mixing Vessels, of which the following is a specification.

My invention relates to improvements in mixing vessels for use with mechanism for mixing or agitating various materials, as in making cake or bread or in beating eggs; and the objects of my improvement are simplicity and economy in construction and efficiency and convenience in use.

In the accompanying drawings, Figure 1 is a plan view of my vessel and attached shaft-bearing top piece. Fig. 2 is a side elevation of the same with one end of the shaft-bearing top piece detached and slightly elevated. Fig. 3 is a broken enlarged end view of the shaft-bearing top piece and adjacent portion of the vessel. Fig. 4 is a like view of the opposite end of the said top piece, and Fig. 5 is a central sectional view of the clamp-nut and an elevation of a portion of the threaded stud on which the said nut is permanently mounted.

The vessel A in its general form may be of any ordinary construction. At the top there is an outwardly-projecting rim 6, which I make use of in attaching the shaft-bearing top piece B. A little below the said rim 6 on one side of the vessel is the keeper-pin 7, rigidly fixed thereon and preferably of a cylindrical form, as shown. On the side of the vessel diametrically opposite the keeper-pin 7 is a threaded stud or post 8, also rigidly fixed in place. Upon the threaded portion of this stud is the clamp-nut 9, having preferably a knurled head and a conical portion 10.

The shaft-bearing top piece B has a central tubular boss 11 permanently fixed or formed thereon to serve as a bearing in which to mount any ordinary mixing or agitating devices that may be carried on a vertical shaft mounted to rotate in the said boss. One end of the shaft-bearing top piece is provided with a downwardly-projecting ear 14, having a perforation 12, that is designed to receive and engage the keeper-pin 7 to assist in holding that end of the said top piece in place on the top of the vessel. I also prefer to form the hooked lugs 13 on this end of the said top piece to engage

the rim 6, as shown. The other end of the shaft-bearing top piece is provided with a downturned ear 15, having a slot 16 at its lower edge of a width that will receive the threaded portion of the threaded stud 8 and with an enlargement 17, that is designed to be engaged by the conical portion 10 of the thumb-nut 9. In order to permanently hold this nut against accidental detachment, the outer end of the said stud 8 may be headed or riveted over, as at 18, Fig. 5.

To attach the shaft-bearing top piece and fasten it in position on the top of the vessel with its boss 11 in a central position ready to support any desired mechanism that may rotate on a vertical axis when supported in the said boss, the left-hand end (in the position shown in Figs. 1 and 2) of the top piece is allowed to rest on the rim 6 of the vessel with the ear 14 just outside of the keeper-pin 7, the opposite end of the said top piece being slightly elevated. Then the top piece is moved longitudinally to the right to enter the keeper-pin 7 into the perforation 12 and to engage the two hooks 13 with the rim 6 of the vessel, as shown in Fig. 2. If the nut 9 is unscrewed as far as shown in the said Fig. 2, then the right-hand end of the top piece may be lowered down into place, the ear 15 passing down to carry the slot 16 below the threaded stud 8 and to bring the enlargement 17 in the said ear nearly opposite the smaller end of the cone-shaped portion of the nut. Then turning the nut to force its conical end into the enlargement in the ear 15 the fastening is completed, and the top piece is firmly held in place on the top of the vessel. By loosening the nut or turning it back that end of the top piece may be raised a little, as shown in Fig. 2, when it may be wholly detached by moving it endwise toward the left.

I claim as my invention—

1. The combination of a vessel having the keeper-pin and diametrically opposite screw-threaded stud and nut, with a shaft-bearing top piece having downwardly-turned ears at each end, one of which is perforated to receive the said keeper-pin, and the other of which is slotted to pass over the said stud and be engaged by the said nut.

2. The combination of a vessel having an outwardly-projecting rim, a keeper-pin on one

side of the vessel and a diametrically opposite
screw-threaded stud and nut, with a shaft-
bearing top piece having at one end a down-
wardly-turned and perforated ear for engag-
5 ing the said keeper-pin and the hooked lugs
for engaging the rim of the vessel, the said
top piece having at its opposite end the slot-

ted ear for engagement with the said stud and
nut.

JOSEPH F. LAMB.

Witnesses:

L. L. REDICK,
F. H. FIELD.