

952,296.

C. AUSTIN.
CHURN.

APPLICATION FILED JULY 31, 1909.

Patented Mar. 15, 1910.
2 SHEETS—SHEET 1.

Fig. 1

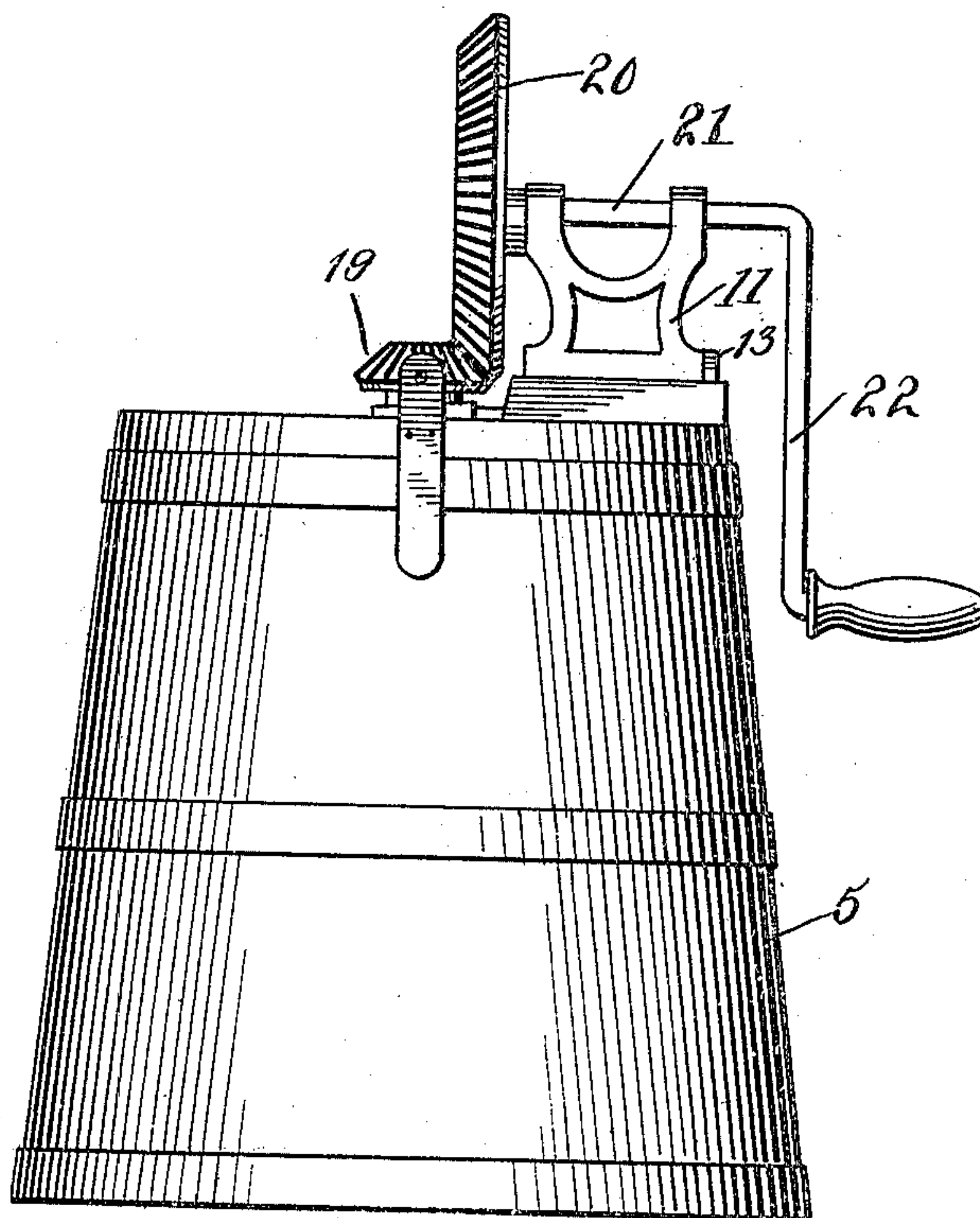
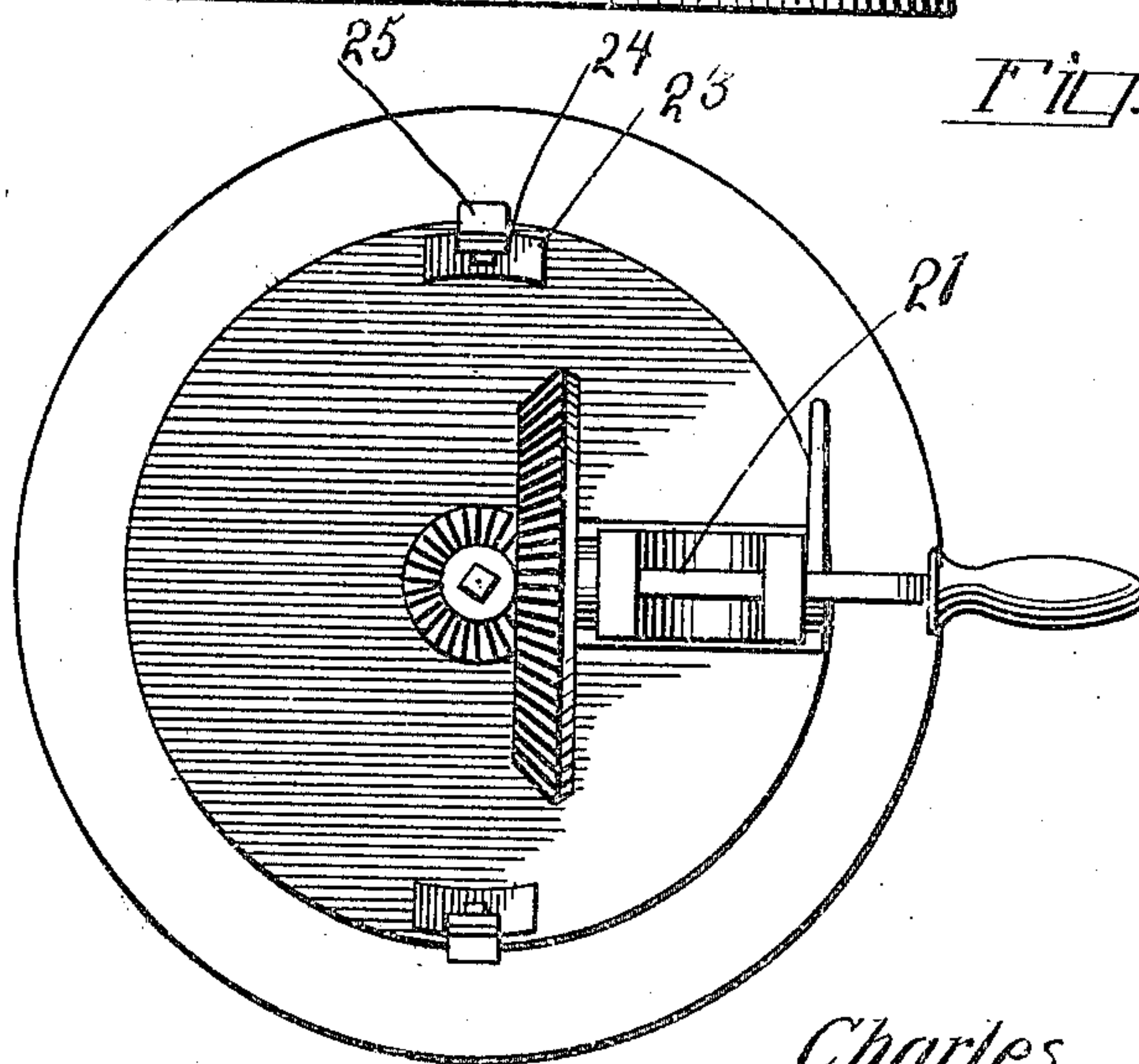


Fig. 2



Witnesses

Wm. Smith
Wm. Bagger

Charles Austin
Inventor

By Victor J. Evans
Attorney

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2 SHEETS—SHEET 2.

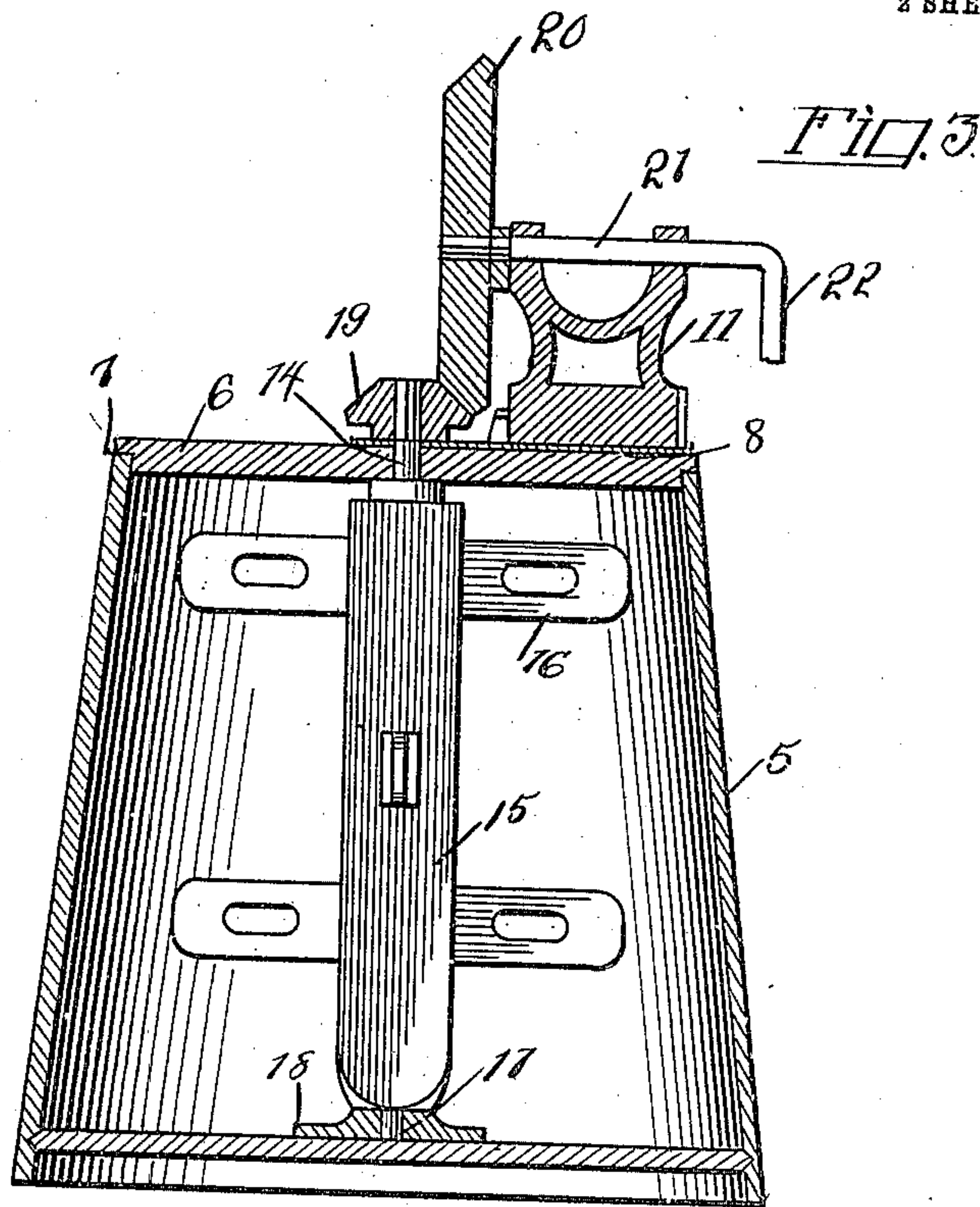
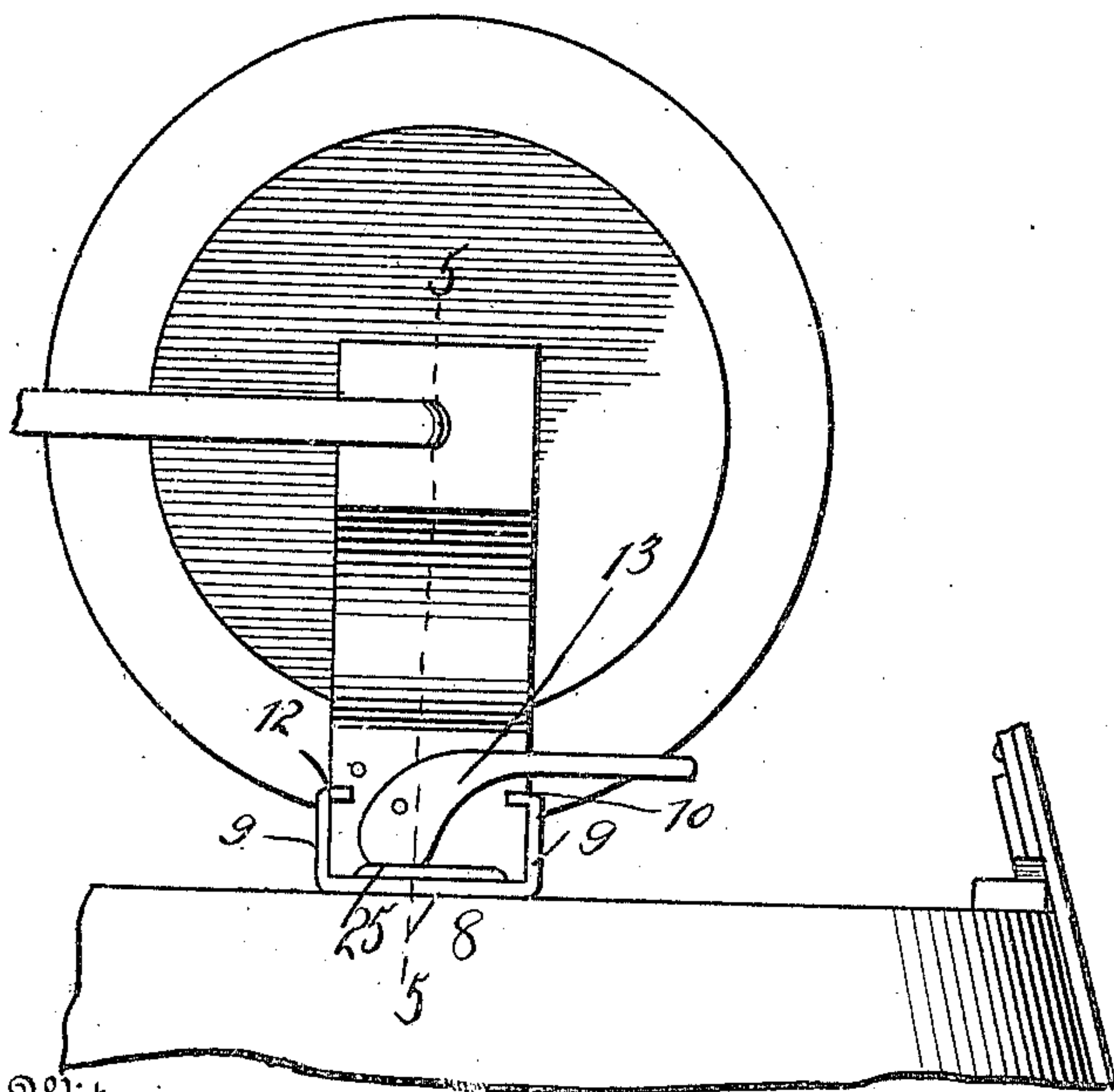


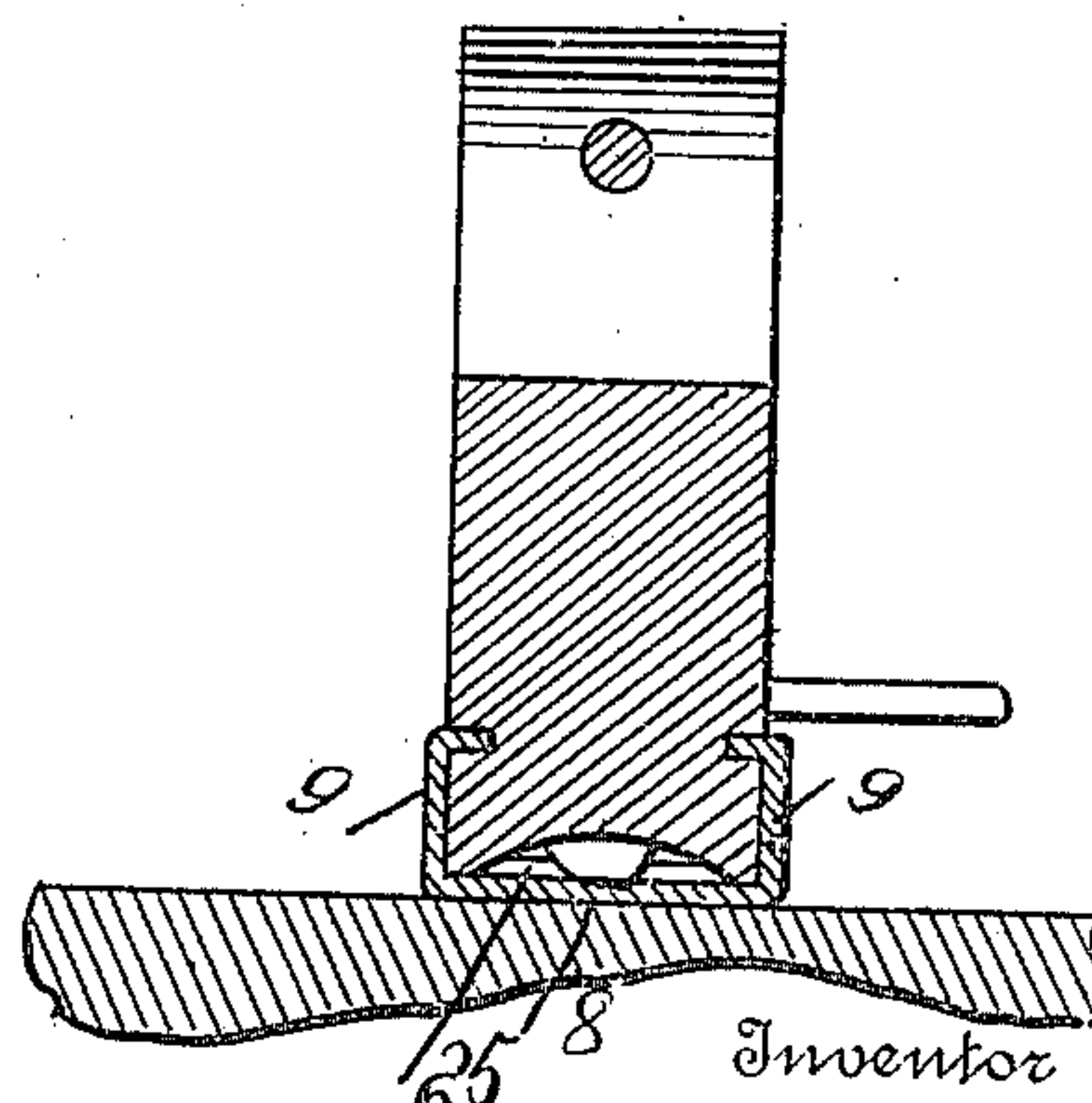
FIG. 4.



Witnesses

Wm. Smith.
Wm. Bagger.

FIG. 5.



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UNITED STATES PATENT OFFICE.

CHARLES AUSTIN, OF AVA, ILLINOIS.

CHURN.

952,296.

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Application filed July 31, 1909. Serial No. 510,527.

To all whom it may concern:

Be it known that I, CHARLES AUSTIN, a citizen of the United States, residing at Ava, in the county of Jackson and State of Illinois, have invented new and useful Improvements in Churns, of which the following is a specification.

This invention relates to that class of churns in which a suitable barrel or receptacle is fitted with a detachable lid or cover wherein a dasher staff or stem is mounted for rotation upon a vertical axis; the lower end of the staff being provided with a gudgeon stepped in a bearing upon the bottom of the receptacle, and suitable means being provided whereby the dasher staff, which is equipped with radially extending wings or blades, may be rotated.

The present invention has for its object to provide a rotary churn of the class described which shall possess superior advantages in point of simplicity, durability and general efficiency; in which the lid and the working members may be readily detached from the body or receptacle of the churn for cleansing purposes; and in which the operating mechanism may be conveniently detached from the lid of the churn.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction, and novel arrangement and combination of parts which will be hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings: Figure 1 is a side elevation of a churn constructed in accordance with the invention. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical sectional view. Fig. 4 is a detail view in end elevation of the frame or bracket supporting the operating shaft, and related parts. Fig. 5 is a sectional detail view taken on the plane indicated by the line 5—5 in Fig. 4.

Corresponding parts in the several figures are denoted by like characters of reference.

The receptacle 5 which constitutes the body of the improved churn may be of any desired shape and dimensions, and said receptacle is provided with a tightly fitting lid 6 having an annular flange 7 that overlaps and is supported upon the upper edge of the body or receptacle.

Firmly secured in a radial position upon the upper side of the lid or cover 6 is a plate 8 having upstanding side walls 9 provided at their upper edges with inturned flanges 10.

11 is a frame or bracket supported upon the plate 8 between the side walls 9, the sides of said bracket being provided with grooves 12 for the reception of the flanges 10 whereby the bracket 11 will be slidably connected with the lid or cover 6.

Pivotally mounted upon the outer end of the bracket 11 is a cam lever 13 which may be manipulated to engage the upper surface of the plate 8 for the purpose of retaining the bracket 11 securely in position.

The lid 6 affords a bearing for a centrally disposed shaft 14 carrying the dasher staff 15 which is provided at suitable intervals with radially extending apertured wings or beaters 16; the lower end of the shaft 14 terminates in a gudgeon 17 which is stepped in a suitable bearing 18 upon the bottom of the receptacle. The upper end of the shaft 14 carries a pinion 19 meshing with a bevel gear 20 upon the operating shaft 21 which is supported for rotation in the bracket 11 and which is equipped with a crank 22 whereby it may be conveniently rotated.

It will be seen that the bearing plate 8 is extended to form a bearing for the upper end of the dasher shaft 14 and a support for the pinion 19 on said shaft.

The upperside of the lid is provided adjacent to opposite edges with wedge-shaped lugs 23 adapted to be engaged by turn buttons 24 pivotally mounted upon brackets 25 extending upwardly from the sides of the churn body, for the purpose of securing the lid in position.

From the foregoing description, taken in connection with the drawings hereto annexed

the operation and advantages of this invention will be readily understood. By placing in position the lid carrying the dasher, securing said lid, and adjusting the bracket
5 carrying the spur wheel, the churn is made ready for operation, and the parts may with equal facility be separated from each other for washing or cleansing.

The construction is simple and inexpensive, and the improved churn will be found
10 to be thoroughly useful and efficient in operation.

The plate 8 is preferably provided near its outer edge with a transversely disposed
15 rib 25 adjacent to which the cam lever 13

may engage to assist in preventing longitudinal displacement of the plate.

Having thus described the invention, what is claimed is—

In a churn, a receptacle having upstanding brackets provided with turn buttons, and a lid supported upon the receptacle and having wedge-shaped lugs adapted to be engaged by the turn buttons.

In testimony whereof I affix my signature
25 in presence of two witnesses.

CHARLES AUSTIN.

Witnesses:

P. J. WAGNER,

W. E. WAGNER.