

No. 654,899.

Patented July 31, 1900.

J. A. KERNODLE.
CHURN.

(Application filed May 19, 1900.)

(No Model.)

Fig. 1.

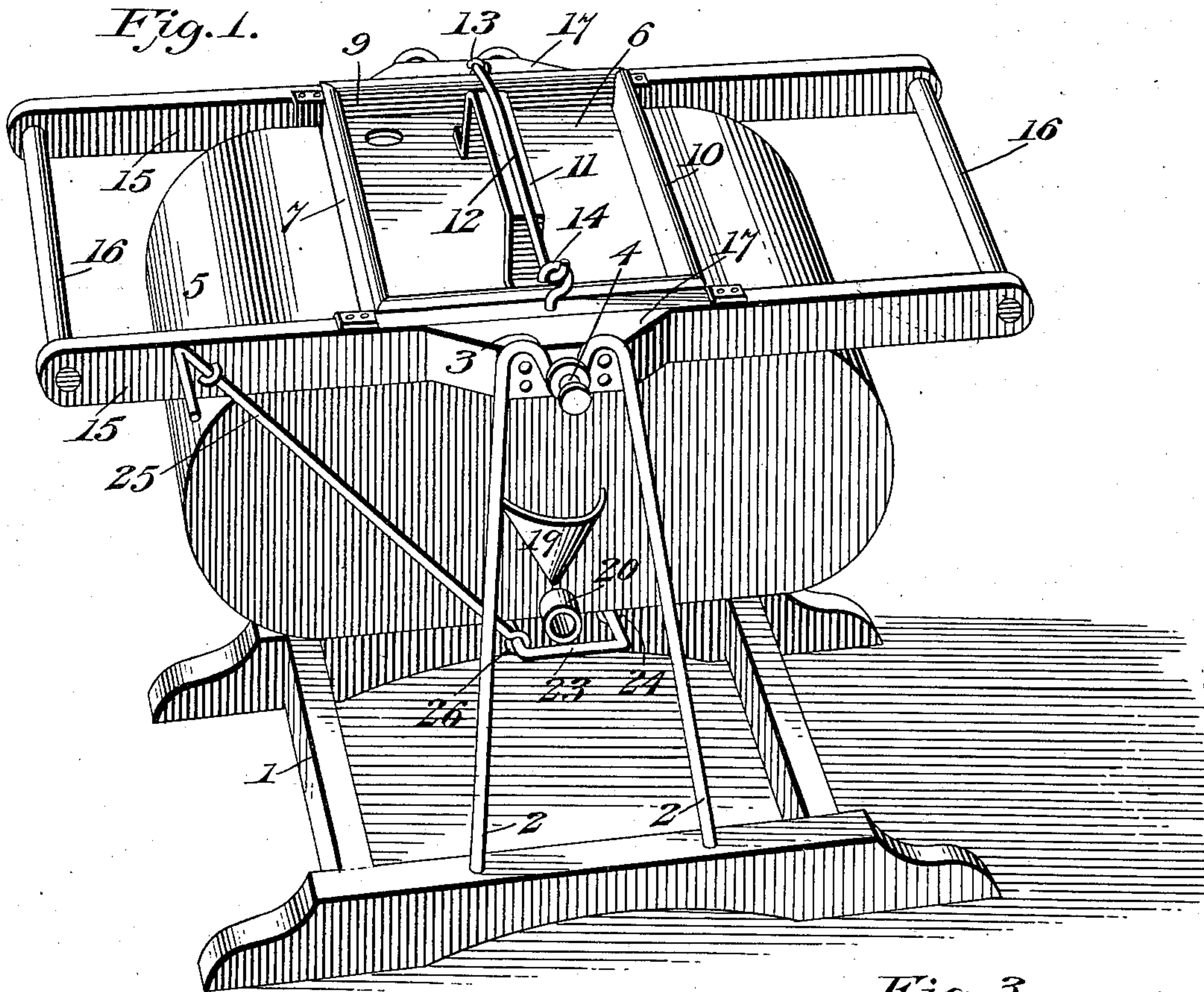


Fig. 2.

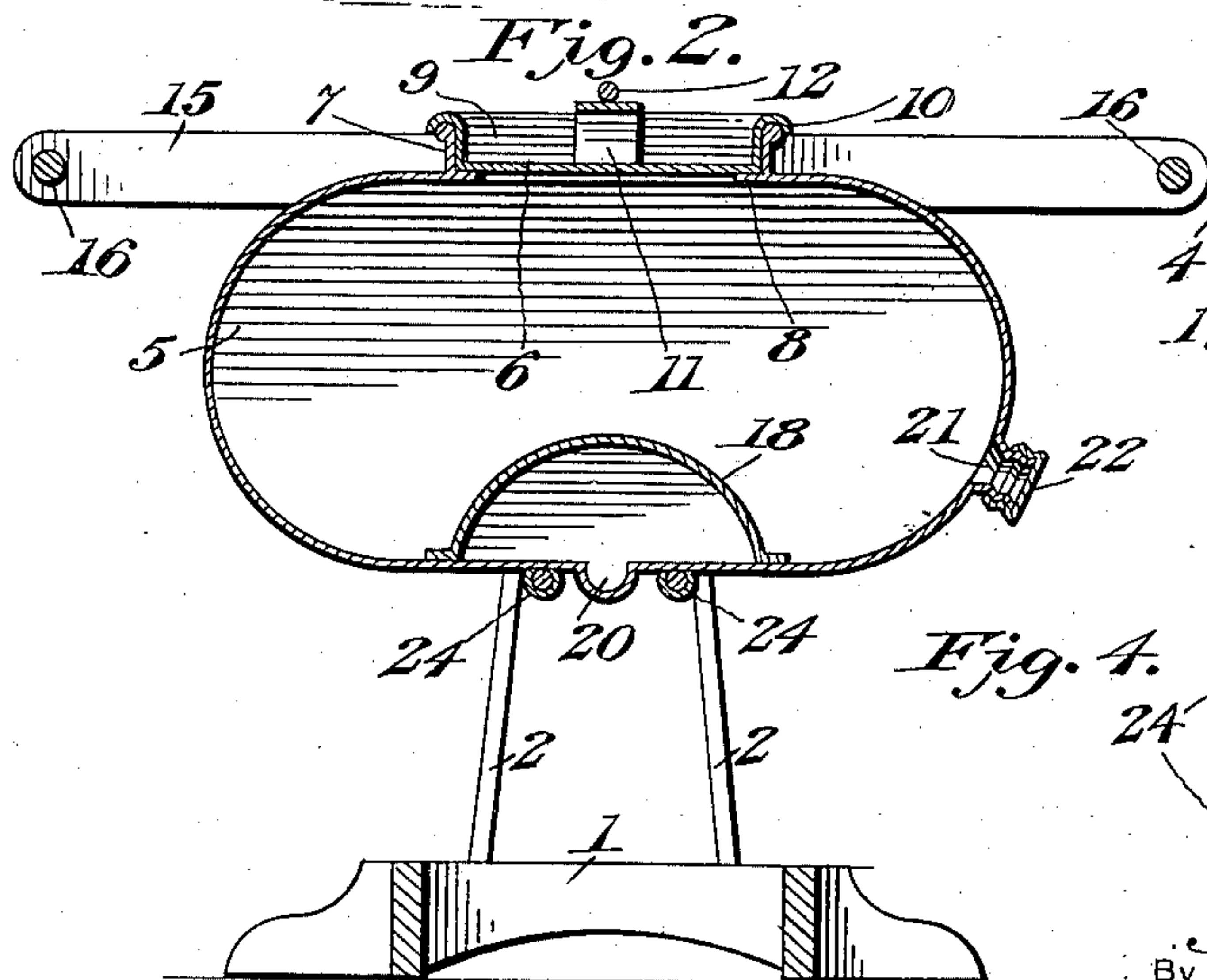


Fig. 3.

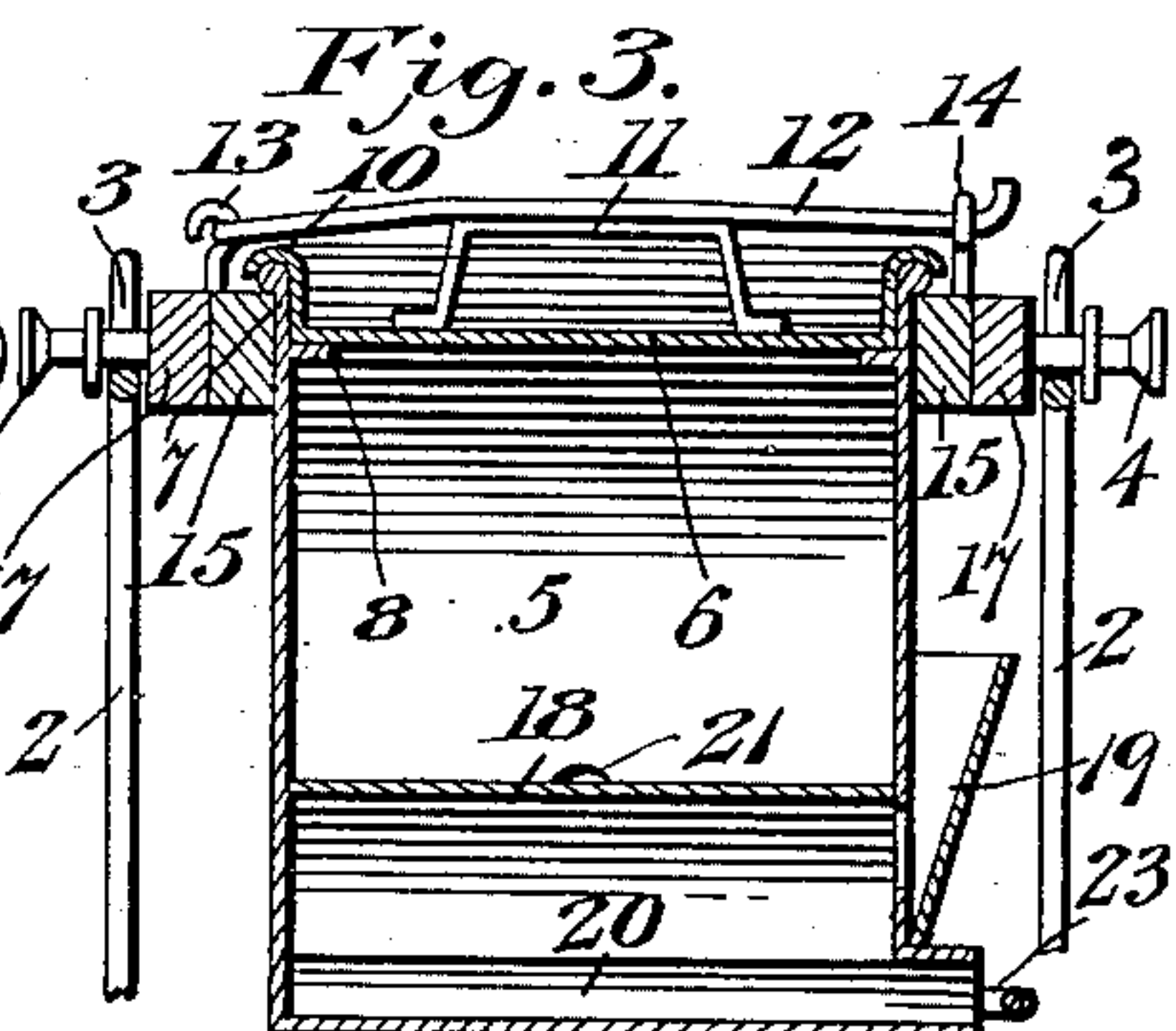
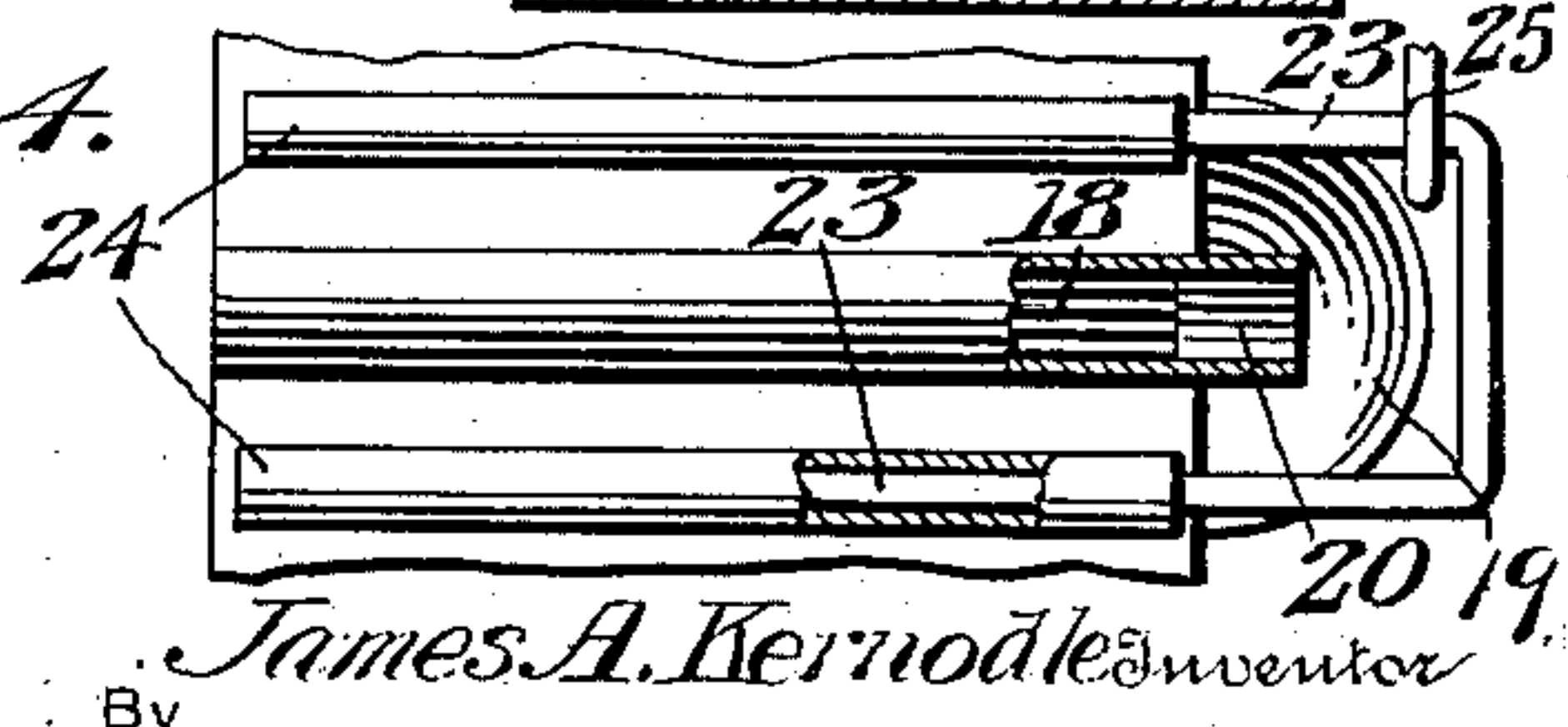


Fig. 4.



Witnesses
Edwin G. McKee
L. P. Holhauser

James A. Kernodle Inventor
By *E. G. Figgers* Attorney

UNITED STATES PATENT OFFICE.

JAMES ALFRED KERNODLE, OF BURLINGTON, NORTH CAROLINA, AS-
SIGNOR OF ONE-HALF TO S. M. HORNADAY, OF SAME PLACE.

CHURN.

SPECIFICATION forming part of Letters Patent No. 654,899, dated July 31, 1900.

Application filed May 19, 1900. Serial No. 17,255. (No model.)

To all whom it may concern:

Be it known that I, JAMES ALFRED KERNODLE, a citizen of the United States, residing at Burlington, in the county of Alamance and State of North Carolina, have invented a new and useful Churn, of which the following is a specification.

My invention relates to churns, and has for its object to provide a simple, inexpensive, and efficient rocking churn provided with improved locking devices for securing it in a fixed position when not in use.

The objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a churn constructed in accordance with my invention. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a transverse vertical section. Fig. 4 is a partial bottom plan view.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a suitable base from which rise side standards 2, of looped or hair-pin construction, of which the sides or legs are arranged approximately parallel and are connected at their upper ends by an inwardly or downwardly turned offset forming an open-topped bearing 3 to receive the trunnions 4 of the churn-body 5. In longitudinal vertical section the churn-body is of substantially-elliptical shape, and it is provided in its upper side with an opening fitted with a cover 6, said churn-body being flanged, as at 7, around the opening and having an inwardly-extending rib 8, which forms a seat for the cover. The cover is also upwardly flanged, as shown at 9, and this flange is bent outwardly and downwardly at its upper edge to form a downwardly-concaved lip 10 to fit the upper edge of the flange on the churn-body. The lid may be provided with any suitable handle or grip 11, and arranged in connection with the lid to secure it in position when the churn is in operation is a locking device consisting of a rod 12, engaged at one end with an eye 13 and adapted at the other end for detachable engagement with a hook

14, said rod extending over the top or cover and preferably bearing upon the handle.

Secured to the churn-body is a handle-frame having side bars 15, connected terminally and beyond the ends of the churn-body by means of grips or rounds 16, and said side bars of the handle-frame are preferably provided at their centers with spacing-blocks 17, which carry the trunnions mounted in the bearings formed by the looped upper ends of the side standards.

Rising from the bottom of the churn-body or receptacle and extending transversely thereof is a longitudinally-convexed breaker or obstacle 18, approximately semicylindrical in cross-section, with its sides intersecting the floor or bottom of the churn-body or receptacle approximately at right angles, whereby as the milk is dashed from one end of the churn-body to the other during the oscillation of the latter it is caused to pass alternately in opposite directions over this obstacle, which having the above-mentioned abruptly-rising sides violently agitates the contents of the receptacle. The breaker is hollow and constitutes a tempering-receptacle, with which communicates an inlet or supply funnel 19, arranged exteriorly upon one side wall of the churn-body or receptacle. Also communicating with the tempering-receptacle is an outlet or drain tube 20, let down below the plane of the bottom of the tempering-receptacle and extending terminally beyond the side wall of the churn-body to receive a cork or similar stopper, if required. The outlet 21 for the contents of the churn-body is arranged at one end and may be fitted with a suitable cap or closure 22, and it is obvious that in order to empty the churn-body it is only necessary to tip the same without removing it from the supporting-frame.

In addition to the above-described features of the churn embodying my invention I employ a lock consisting of a looped slide 23, of which the parallel side arms are mounted in sleeves or guides 24, secured transversely to the under side of the churn-body, the looped end of said slide being disposed within reach of an operator from one side of the churn-body and being adapted to be extended lat-

erally to a point between the legs or uprights of the adjacent side standard, whereby it secures the churn-body against rocking movement. The cross-piece at the closed end of the loop formed by the slide constitutes a grip, whereby the lock may be readily extended. Also in connection with this slide I may employ an operating-rod 25, to which may be attached an operating power or motor or a windmill, such mechanism, however, not being shown in connection with the churn embodying my invention. The lower end of the operating-rod is provided with an eye 26, which fits loosely upon one of the side arms of the slide, whereby the adjustment of the slide may be accomplished without disarranging the operating-rod.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

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

1. In a churn, the combination of a base having side standards, each provided with approximately-parallel sides or legs, a churn-body or receptacle mounted to rock in bearings at the upper ends of the standards, and a looped slide mounted upon and carried by the churn-body for extension laterally of the churn-body to occupy a position between the sides or legs of one of said standards, the outer closed end of the loop formed by the

slide constituting a grip, whereby the slide may be extended, substantially as specified.

2. In a churn, the combination of a base, hair-pin or looped side standards rising from the base and each having approximately-parallel sides or legs, and also having their upper ends intumed or looped downward to form bearings, a churn-body having trunnions mounted in said bearings, and a looped slide having its side arms mounted in guides upon the under side of the churn-body, and adapted for extension transversely of the churn-body to occupy a position between the sides or legs of one of said standards to lock the churn-body against rocking movement in either direction, substantially as specified.

3. In a churn, the combination of a base, looped side standards rising from the base, a churn-body having trunnions mounted in bearings at the upper ends of the standards, a slide mounted upon the churn-body for extension between the legs of one of the standards, said slide being of looped construction, and an operating-rod arranged at one side of the churn-body and terminally attached to one of the side arms of the slide, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES ALFRED KERNODLE.

Witnesses:

WM. PLUMMER,
CLAUD CATES.