

No. 607,342.

Patented July 12, 1898.

W. P. COKER.
CHURN.

(Application filed Aug. 18, 1897.)

(No Model.)

Fig. 1

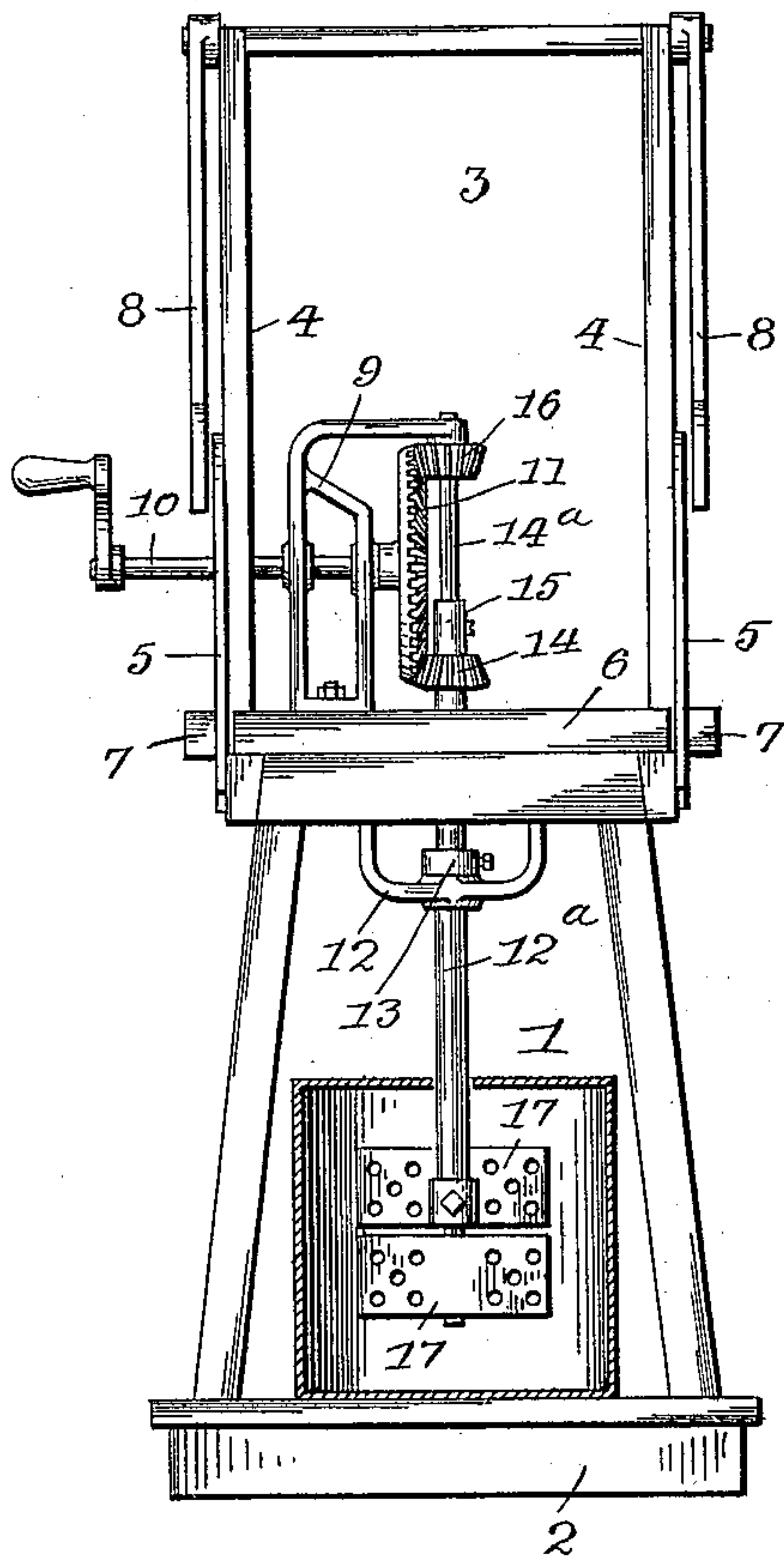


Fig. 2.

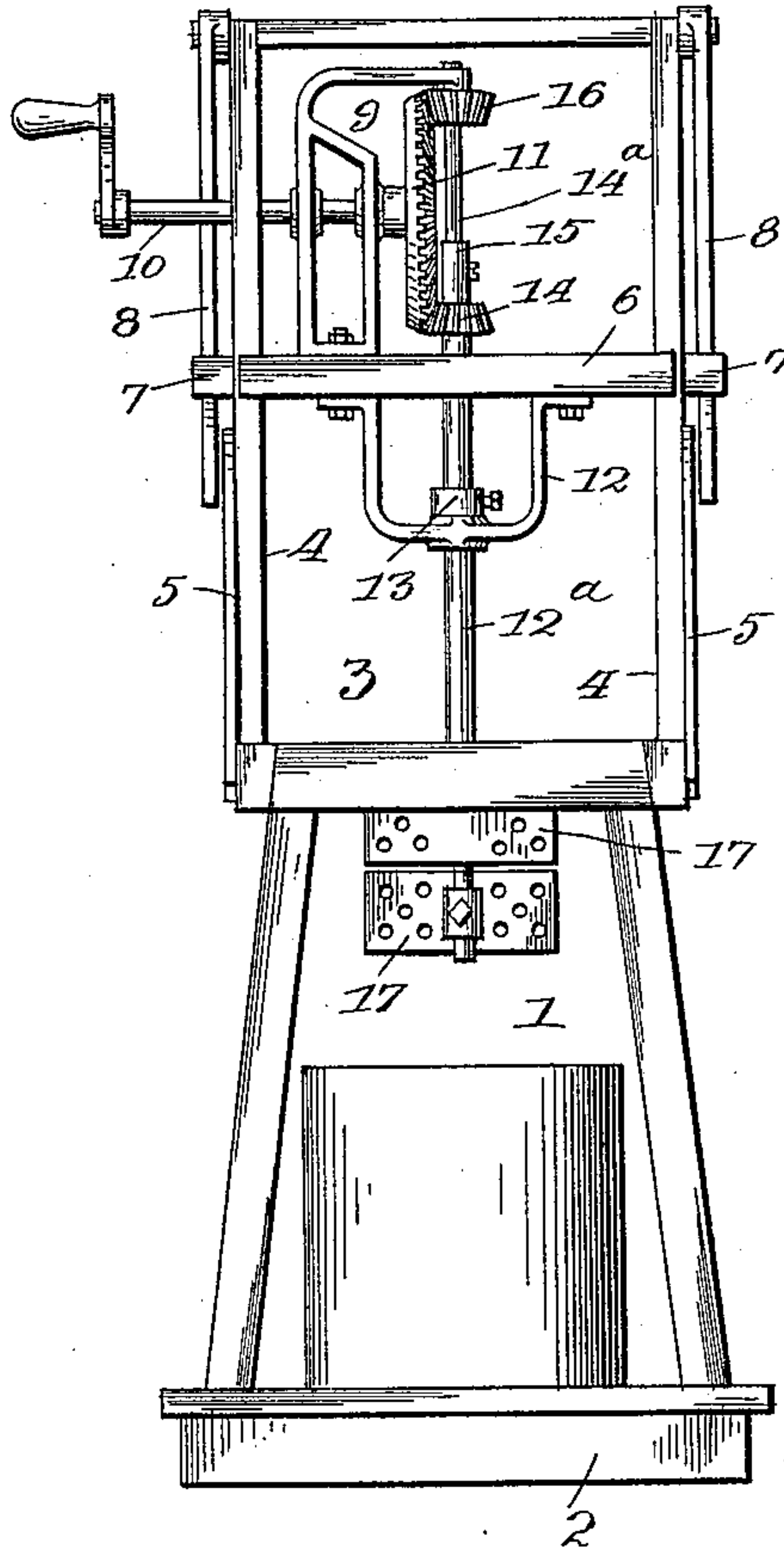
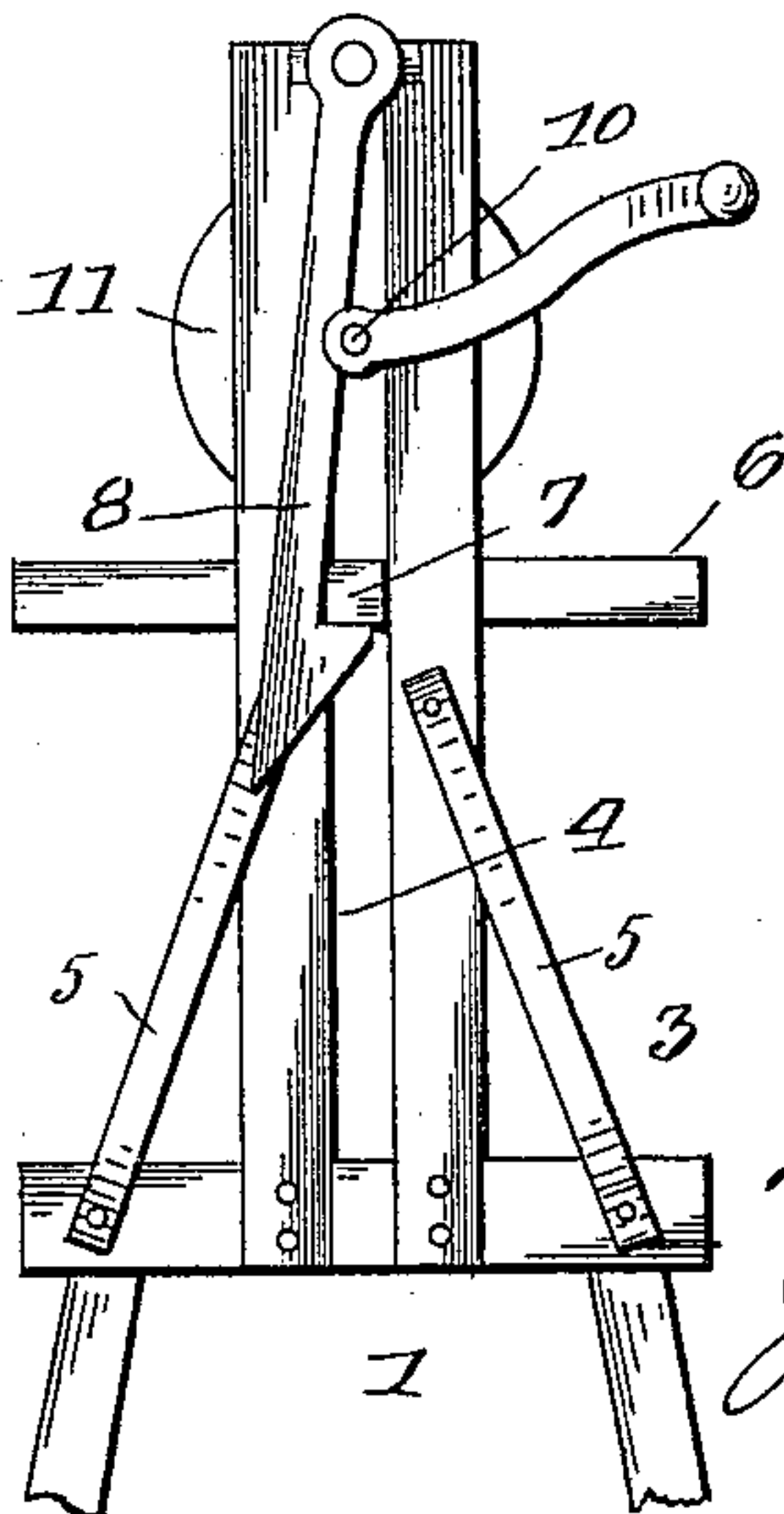


Fig. 3.



Witnesses
Harry W. Hahn
Victor J. Evans

Inventor
Willie P. Coker.
John Wedderburn
Attorney

UNITED STATES PATENT OFFICE.

WILLIE P. COKER, OF OAKDALE, OKLAHOMA TERRITORY.

CHURN.

SPECIFICATION forming part of Letters Patent No. 607,342, dated July 12, 1898.

Application filed August 18, 1897. Serial No. 648,657. (No model.)

To all whom it may concern:

Be it known that I, WILLIE P. COKER, of Oakdale, in the county of Washita and Territory of Oklahoma, have invented certain new and useful Improvements in Churns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 This invention relates to multiple-dasher churns—that is to say, to churns provided with dashers which rotate in opposite directions.

15 The object of the invention is to produce an efficient churn or machine for churning which shall have a high degree of efficiency, which may be easily cleaned, and the dashers of which may be easily handled to raise them out of the vessel or churn proper, so that it 20 may be removed and its contents discharged.

The invention consists, essentially, in the combination of a churn vessel, multiple dashers for agitating the cream within the vessel, a table or platform movable within the frame 25 upon which it is mounted, gearing mounted on the platform to drive the dasher, and means for holding the platform in an elevated position, as will hereinafter appear.

30 In the drawings forming part of this specification, Figure 1 is a front elevation of a frame carrying my churn-dashers and their operative mechanism, the churn itself being shown in section with the dashers lowered in position for use. Fig. 2 is a similar view with the 35 dashers elevated or raised out of range with the churn top or vessel. Fig. 3 is a side elevation of the upper part of the frame, showing the hanger for sustaining the movable platform.

40 1 is a main frame, by preference provided with a floor or base 2, and upon this frame is a supplemental or second frame 3, provided or having formed at the opposite sides slots or grooves 4 4. This upper frame is firmly sustained in position by means of braces 5 5.

50 6 is a floor or platform provided with projections 7 7, adapted to rest upon the top of primary frame 1 and to be raised up to position shown in Fig. 2 and there held by means of hangers 8 8. The hangers are provided with inclined ends, as shown, so that as the platform is raised up the hangers will swing

laterally until the platform has passed the hook parts, after which the hangers swing by gravity and interlock with the projections 7 7 55 of the platform. The platform carries on its upper face a bracket 9, which in turn supports a crank-shaft 10, the crank-shaft having at one end a crank and at the other end a crown-gear 11. The under side of the movable platform carries a bracket 12, which 60 serves as a guide for the telescopic or pipe dasher-rod 12^a. This dasher-rod is held in any desired vertical relation with the movable platform by means of an adjustable collar 13, 65 the collar being adapted to be secured to the sleeve at any desired point by means of a set-screw, as shown. At the upper end of the tubular dasher and above the surface of the movable platform is secured a spur-gear 14. 70 Inside of the tubular dasher-rod is mounted a central dasher-rod 14^a, the same being sustained in its proper vertical position by means of a collar 15, secured in position on the central dasher-rod by means of set-screws, as 75 shown. Near the upper end of this central dasher-rod is secured a spur-pinion 16, the upper end of this rod having a bearing in the bracket 9. The dash-rods 12^a and 14^a each carry a common perforated dasher 17. Under 80 this organization the turning of the crank causes the dashers to rotate in opposite directions and perform their work in a well-known way.

When the cream is introduced to the churn 85 and the vessel placed upon its stand 2, the movable platform or frame carrying the dashers and the operating mechanism is released from the suspending-hooks and the whole 90 dropped down, the dashers passing into the vessel. In this position the process of churning is performed, after which the platform, with its sustained and suspended machinery, is raised up into position shown in Fig. 2, 95 when the churn vessel may be removed and the contents discharged.

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

A churn comprising a main frame, a supplemental frame secured to the upper end 100 thereof having vertical slots in its side bars, a movable platform carrying dashers and the churn-operating mechanism provided with

lateral projections adapted to fit and move in
said slots, and hangers pivotally mounted
to the supplemental frame at points adjacent
to the upper end thereof and in line with said
5 slots, the lower ends of said hangers being
beveled and provided with hooks adapted to
engage the projections on said movable plat-
form, as and for the purpose set forth.

In testimony whereof I have signed this
specification in the presence of two subscrib- 10
ing witnesses.

WILLIE P. COKER.

Witnesses:

ONNIE D. COKER,
J. E. CASTEN.