

No. 675,836.

Patented June 4, 1901.

E. METZ.  
CAKE BEATER.

(Application filed Dec. 31, 1900.)

(No Model.)

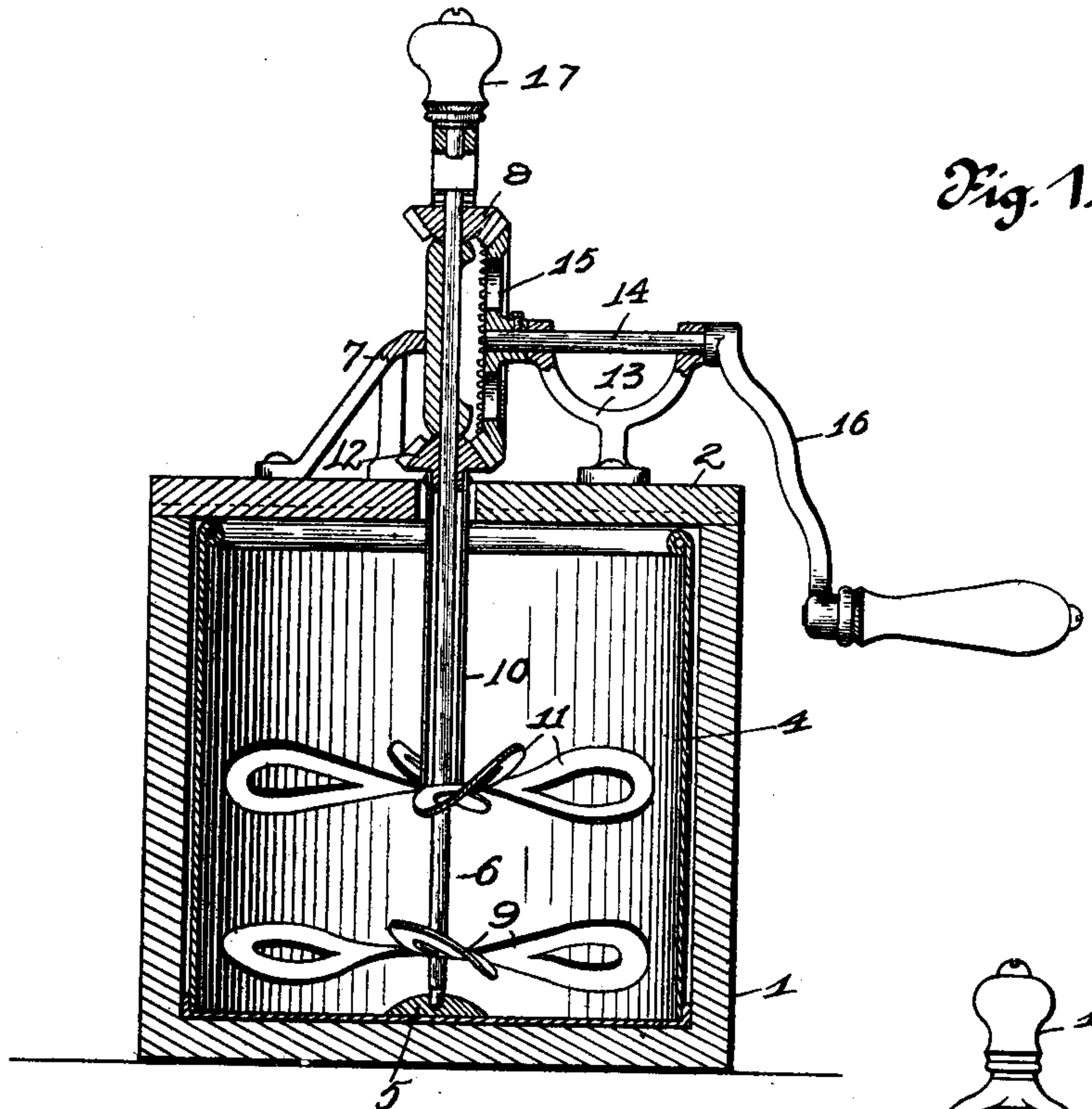


Fig. 1.

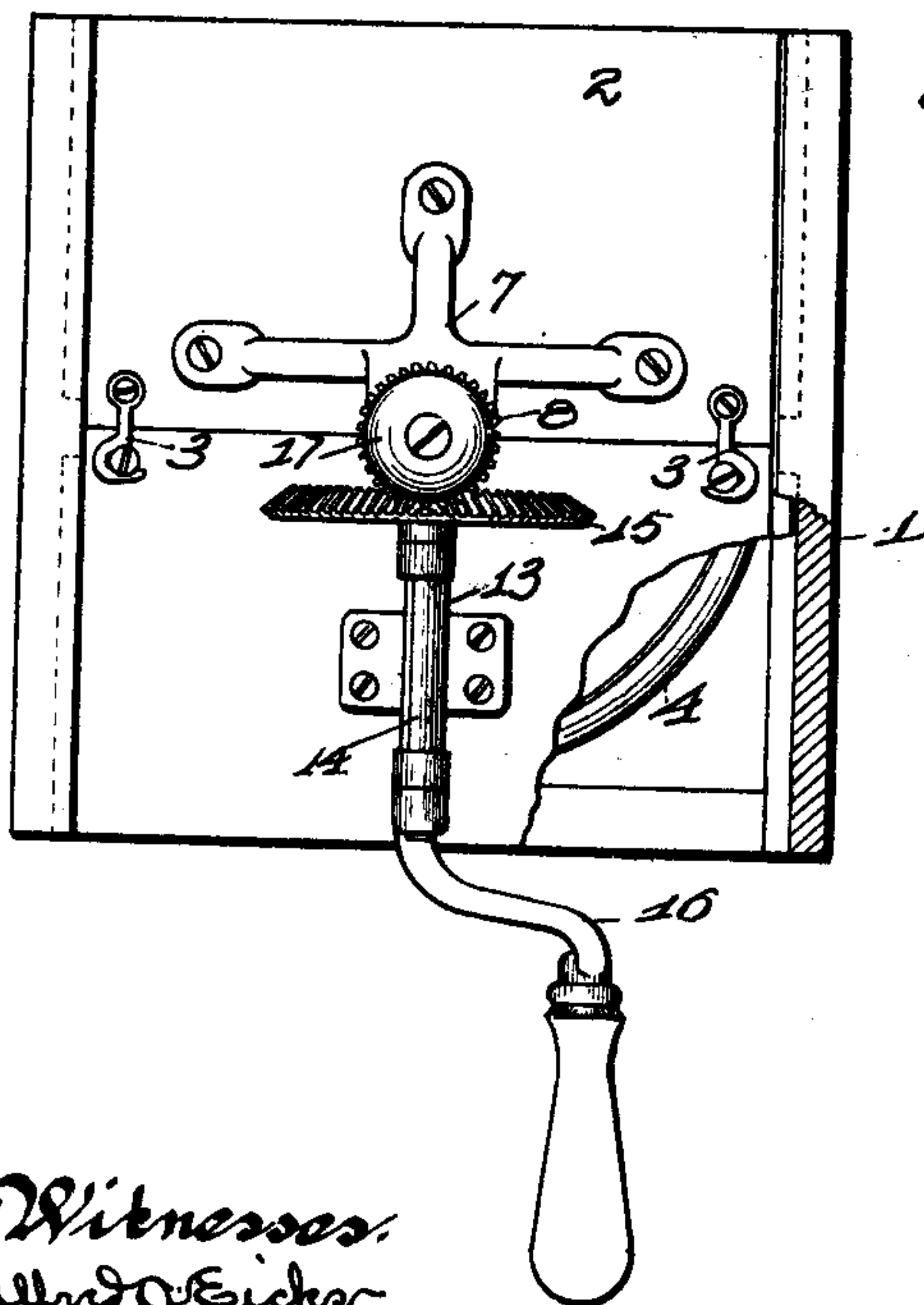


Fig. 2.

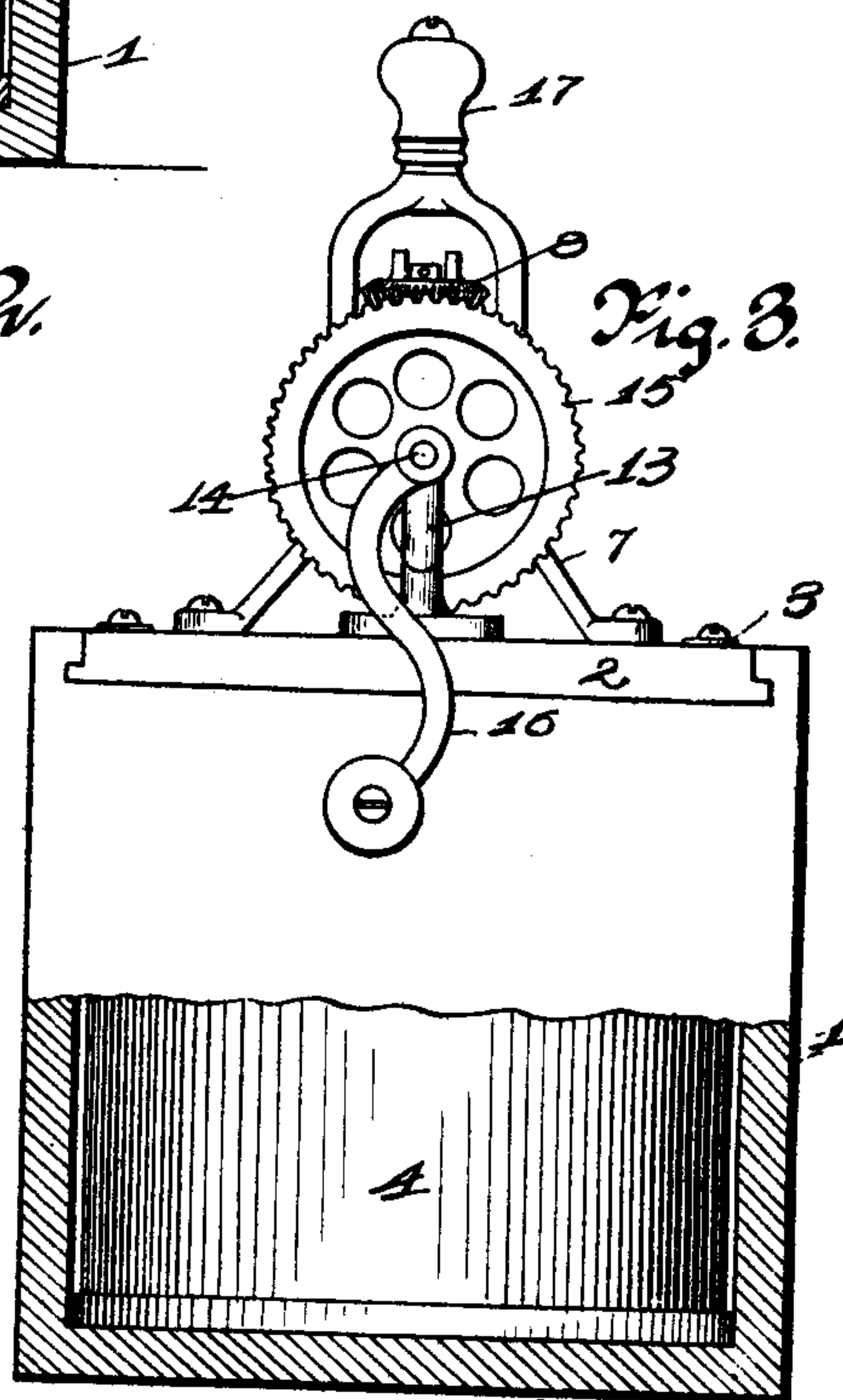


Fig. 3.

Witnesses:  
Alfred Eicher  
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By Higdon & Long, Attys.



# UNITED STATES PATENT OFFICE.

EDITH METZ, OF ST. LOUIS, MISSOURI, ASSIGNOR OF TWO-THIRDS TO  
CHARLES H. RIECHMANN AND ARTHUR MOSLEY, OF SAME PLACE.

## CAKE-BEATER.

SPECIFICATION forming part of Letters Patent No. 675,836, dated June 4, 1901.

Application filed December 31, 1900. Serial No. 41,676. (No model.)

*To all whom it may concern:*

Be it known that I, EDITH METZ, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Cake-Beaters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to cake-beaters; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

The object of this invention is to provide a receptacle adapted to receive substances which are to be mixed or beaten and having therein a number of oppositely-movable vanes or wings, whereby the substances can be thoroughly mixed and agitated.

Figure 1 is a vertical sectional view of my improved cake-beater. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation, partly in section.

In the construction of my invention I provide an outer case 1, preferably of wood and having a movable top 2 in two parts and having projections on their ends which operate in kerfs formed in the upper ends of the sides of the said case 1. The two parts comprising the top are held together in any desired manner, as by hooks 3, so that they will remain stationary during the operation of the beating devices.

4 indicates a pan or interior case adapted to be carried within the case 1 and having rigid with its bottom a bearing-block 5. A vertical rod or shaft 6 has its lower end supported within the bearing-block 5, and its upper end projects through a bearing formed in the frame 7, the same being located upon one of the members forming the top of the outer case. A small beveled gear 8 is rigid with the upper end of the shaft 6 and affords means for rotating said shaft, as will presently be described. A series of vanes or wings 9 is carried by the lower end of the shaft 6 within the interior case and are bent at an incline to more thoroughly agitate the substances contained within the case. A sleeve 10 is mounted around the shaft 6, and on its lower end, within the inner case 4, is carried a series of vanes or wings 11, the same being similar in construction to the wings 9 and adapted to be rotated in a direction opposite from the said wings 9. The upper end

of the sleeve 10 extends through an opening formed in the top of the outer case, and connected thereto is a bevel-gear 12, corresponding to the gear 8, above referred to.

A bracket 13 is mounted upon the top of the outer case, and a horizontal shaft 14 is carried in bearings formed in the said bracket. A bevel-gear 15 is rigid with the inner end of the said shaft 14 and meshes with both the gears 8 and 12, so that as the shaft 14 is rotated the said gears 8 and 12 will be rotated in directions opposite from each other, which will also move the vanes 9 and 11 in opposite directions within the case. The shaft 14 may be rotated by any desired means, as by a crank 16, mounted on its outer end.

17 indicates a knob connected to the support 7, whereby the device may be held stationary while the vanes are in operation.

In using my improved cake-beater the material is placed within the inner case 4 by removing the top section 2 of the outer case. The said top is then returned to its position, and the hooks 3 are engaged to hold the parts securely together. As the crank 16 is rotated the gear 15 is moved, and being meshed with the gears 8 and 12 the said gears and their shafts will also be rotated and in opposite directions. The vanes 9 and 11, carried by the said shafts within the inner case 4, may be rotated with any degree of rapidity which will thoroughly mix and agitate the material within the said case, which operation may be continued as long as desired.

I claim—

In a cake-beater, consisting of a receptacle and a beater, an outer casing, a sliding cover of two separable oppositely-movable parts for said outer casing, fastening-hooks for holding said parts together, a frame 7 fixed upon one of said parts and having a bearing formed therein for upholding the beater-rod, a bracket 13 carried by the other part of the cover, a horizontal rod 14 supported by said bracket, a gear on the inner end of said rod for rotating the beaters, and a crank 16 on the outer end of said rod, substantially as specified.

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

EDITH METZ.

Witnesses:

ALFRED A. EICKS,  
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