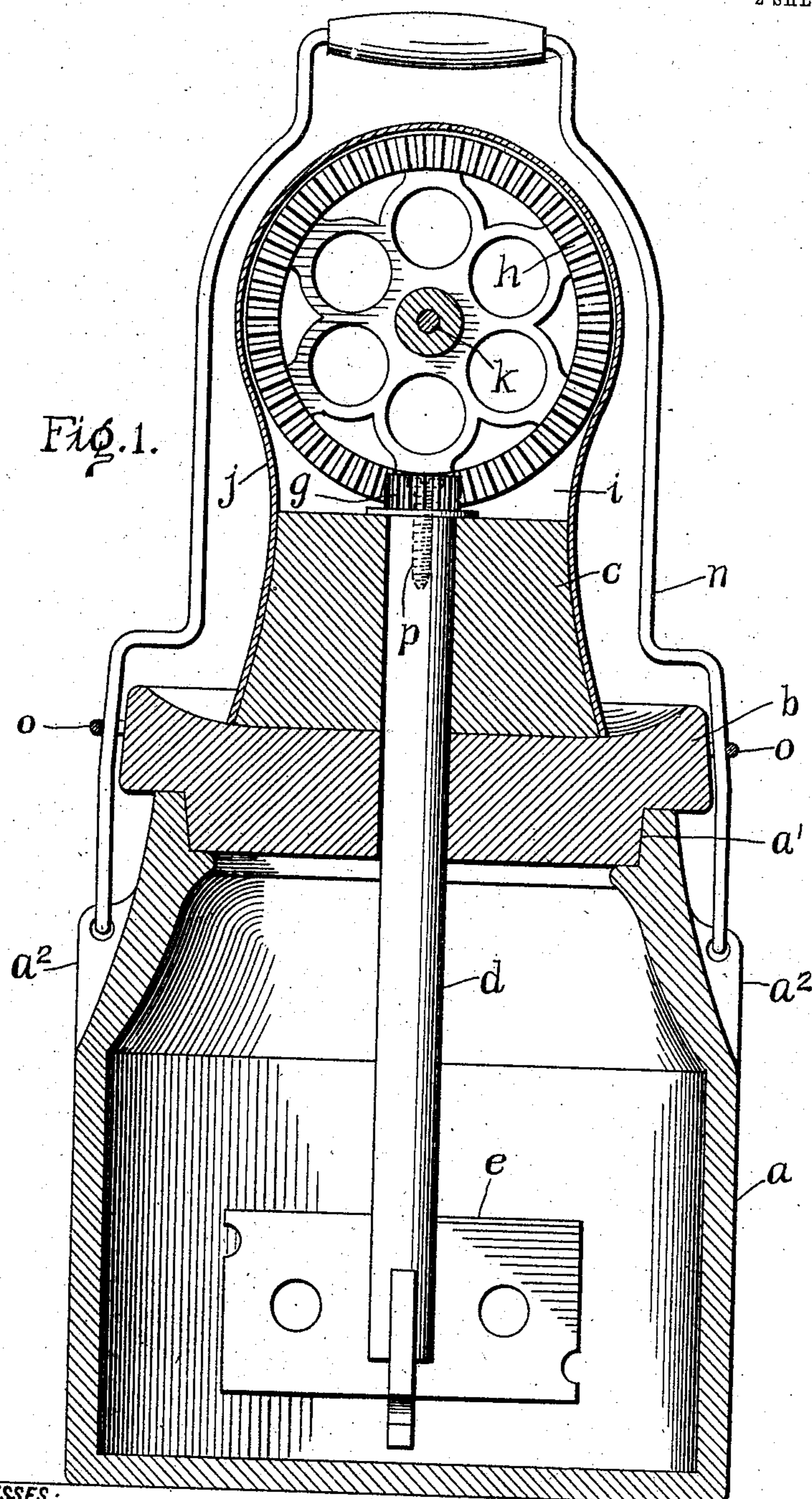


No. 815,864.

PATENTED MAR. 20, 1906.

I. B. ROSENTHAL.  
CHURNING ATTACHMENT.  
APPLICATION FILED JUNE 28, 1904.

2 SHEETS—SHEET 1.



WITNESSES:  
Daniel Webster, Jr.  
M. J. Eyre.

INVENTOR  
Isaac B. Rosenthal  
BY  
*[Signature]*  
ATTORNEY.

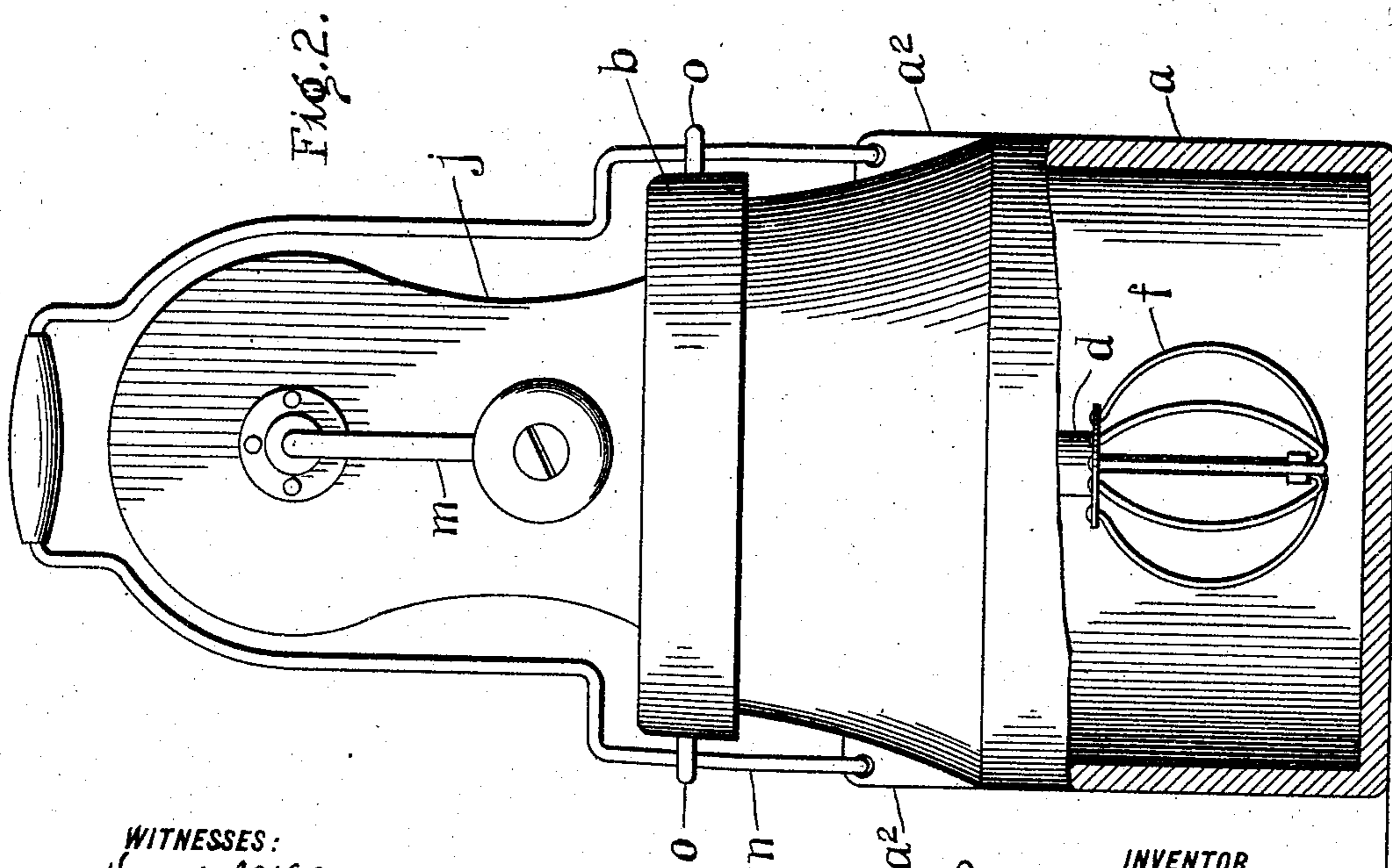
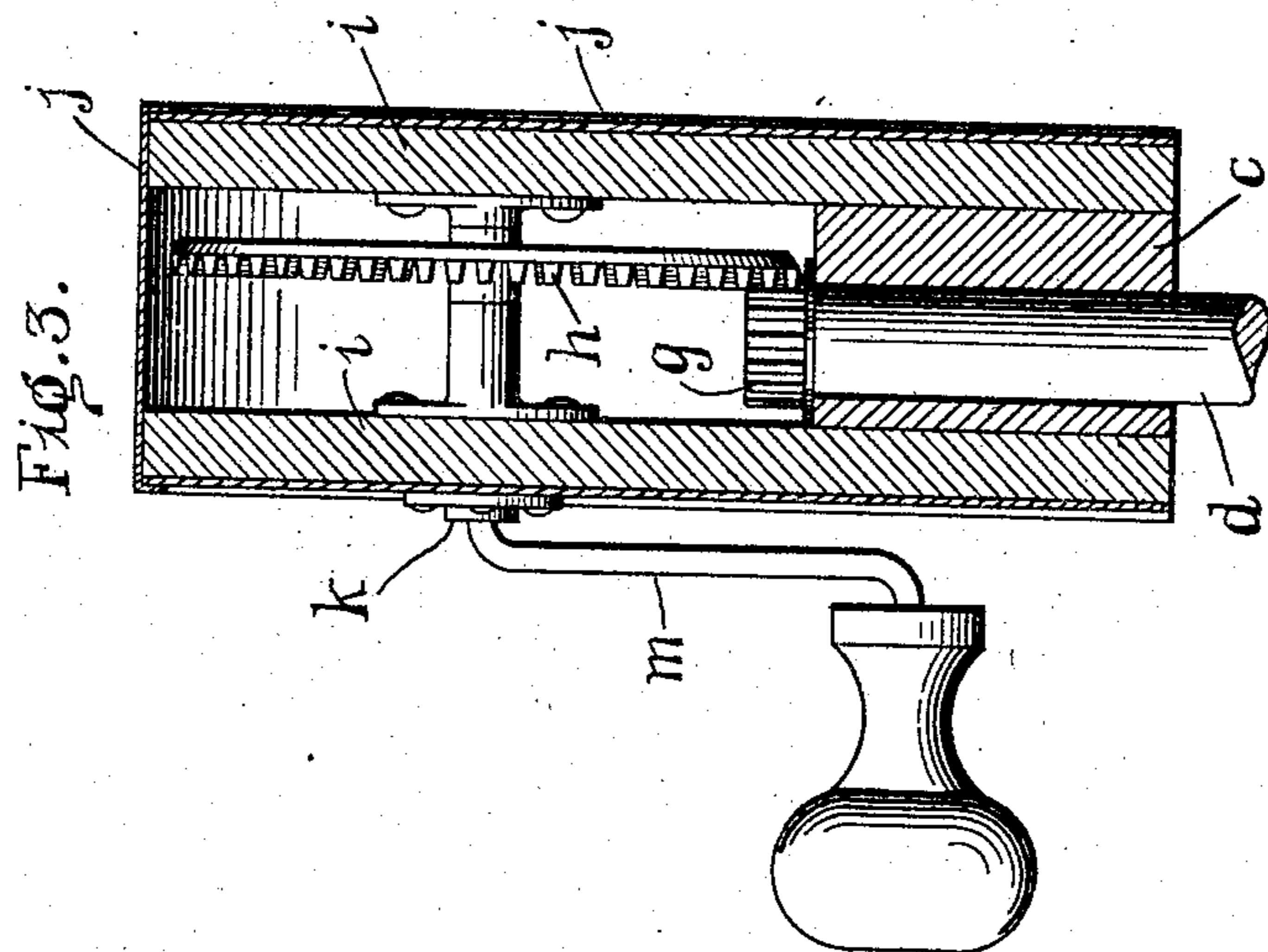
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BY  
*Attorney*  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

ISAAC B. ROSENTHAL, OF PHILADELPHIA, PENNSYLVANIA.

## CHURNING ATTACHMENT.

No. 815,864.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed June 28, 1904. Serial No. 214,477.

*To all whom it may concern:*

Be it known that I, ISAAC B. ROSENTHAL, of the city and county of Philadelphia and State of Pennsylvania, have invented an Improvement in Churning Attachments, of which the following is a specification.

My invention relates particularly to devices for churning or beating adapted for household use, the attachment being of a character adapted to be applied to the jar or vessel in which the materials are to be churned or beaten and to be readily detached and removed therefrom.

It is one of the objects of my invention to prevent the cream or material being churned or beaten coming in contact with metal parts, such as the driving devices, and for this purpose I locate the driving devices above a base piece or frame which rests upon and closes the mouth of the jar. The driving devices may be inclosed by a suitable casing to protect them.

The entire attachment is very light, strong, and simple.

Another object of my invention is to render the attachment convertible, so that it may be used as a churn for butter-making or as an egg-beater or for other purposes by simply changing the agitating-shaft to one having the appropriate form of agitator.

In the drawings, Figure 1 is a vertical sectional view of a churn embodying my invention. Fig. 2 is a side elevation with part in vertical section showing the invention applied to an egg-beater, and Fig. 3 is a side elevation of the driving mechanism with the inclosing housing in vertical section.

*a* is the jar, usually of pottery, which contains the substances to be beaten or churned. The jar is preferably of reduced diameter or conical at the top to prevent the materials from rising into the top of the jar during the churning or beating operations. The open mouth of the jar may be provided with an offset rim *a'*, forming a seat for the base-piece *b* of the churn. This base-piece is preferably formed of wood and of a size to close the top of the jar. To the top of the base-piece *b* is secured at the center a block *c*. A shaft *d*, carrying at its lower end the dasher *e* or beater *f*, is journaled in the base-piece *b* and block *c* and is provided at its upper end with a pinion *g*, engaging a gear *h*, journaled

in suitable housings *i* on the block. The gears are inclosed in a casing *j*, secured to the block, and the shaft *k* of the gear *h* extends laterally through this casing and is connected with a crank *m*.

The jar *a* may be provided on the sides with ears *a'*, in which are inserted the bails of a handle *n* for carrying the churn and jar. The base-piece *b* may be provided with catches *o* to engage the handle and hold it in upright position when the churning devices are applied.

To render the apparatus convertible, a beater *f* may be substituted for the dasher *e*. For this purpose I have shown the pinion *g* attached to the shaft *d* by a screw *p*. To convert the apparatus, it is only necessary to detach the wooden shaft *d* and its dasher and substitute a beater and its shaft, attaching the pinion by the screw *p*.

Besides the great simplicity of the construction it will be noted that all of the driving mechanism and metal parts are housed above the wooden base-piece *b*, and consequently the cream or contents of the jar cannot come in contact with them. This is of great importance in butter-churns.

The churning devices may be easily applied to the jar and may be removed from one jar and placed in another.

What I claim as new, and desire to secure by Letters Patent, is as follows:

A churning attachment consisting of a non-metallic base-piece adapted to rest upon and close the mouth of the jar, and having upon its upper surface a narrow transverse block of substantial height, a shaft journaled in and extending through said block and base-piece and having a churning device upon its lower end and a pinion on its upper end above the block, side cheeks *i* carried by the sides of said block and forming housings, a driving-shaft journaled in said housings, a gear carried by said shaft and engaging said pinion, and a casing carried by said block and housings and inclosing the driving-shaft, gear and pinion.

In testimony of which invention I hereunto set my hand.

ISAAC B. ROSENTHAL.

Witnesses:

ERNEST HOWARD HUNTER,  
R. M. KELLY.