

No. 632,780.

Patented Sept. 12, 1899.

H. T. CREPEAU.
EGG BEATER.

(Application filed July 23, 1898.)

(No Model.)

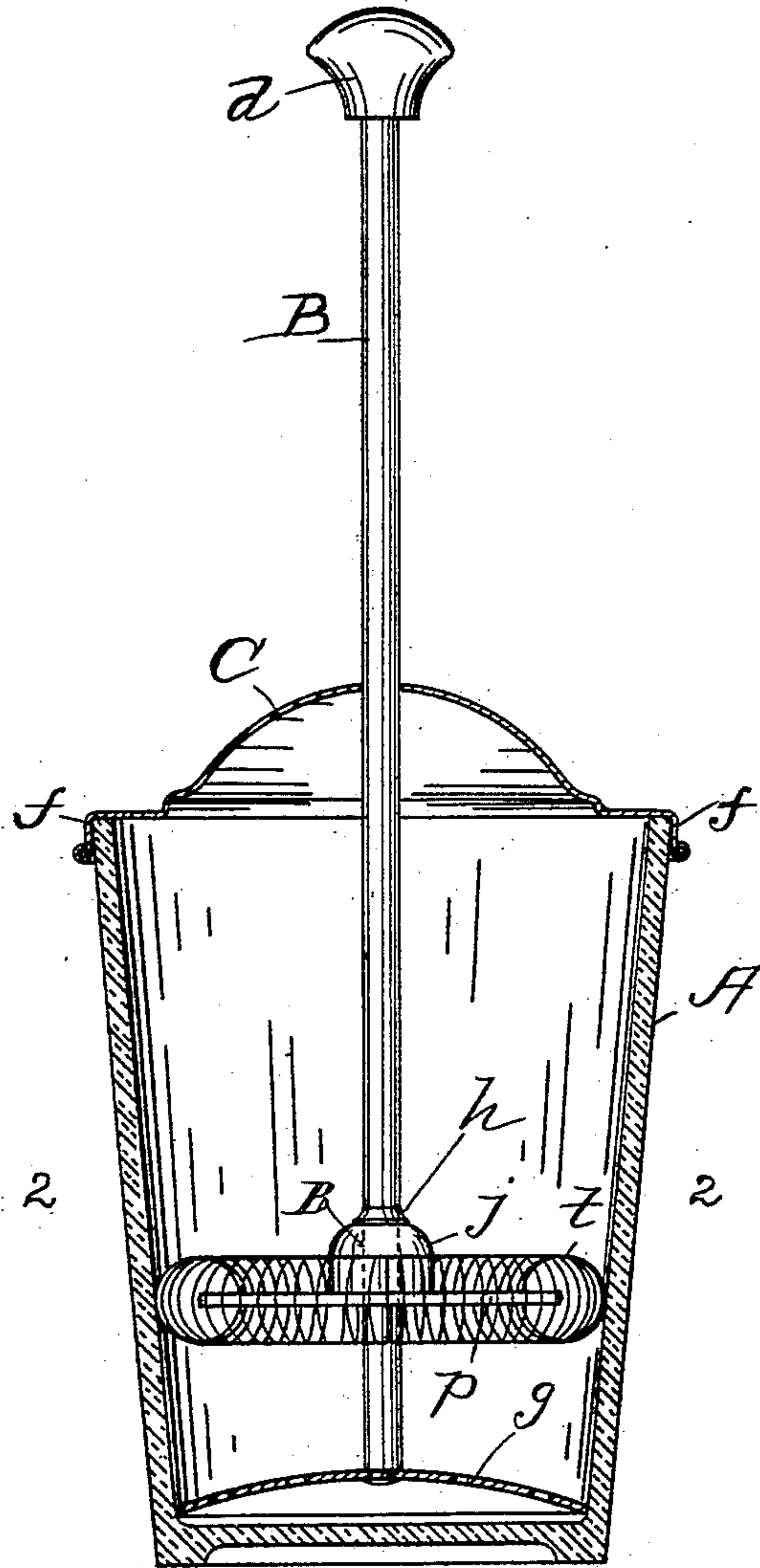


Fig. 1.

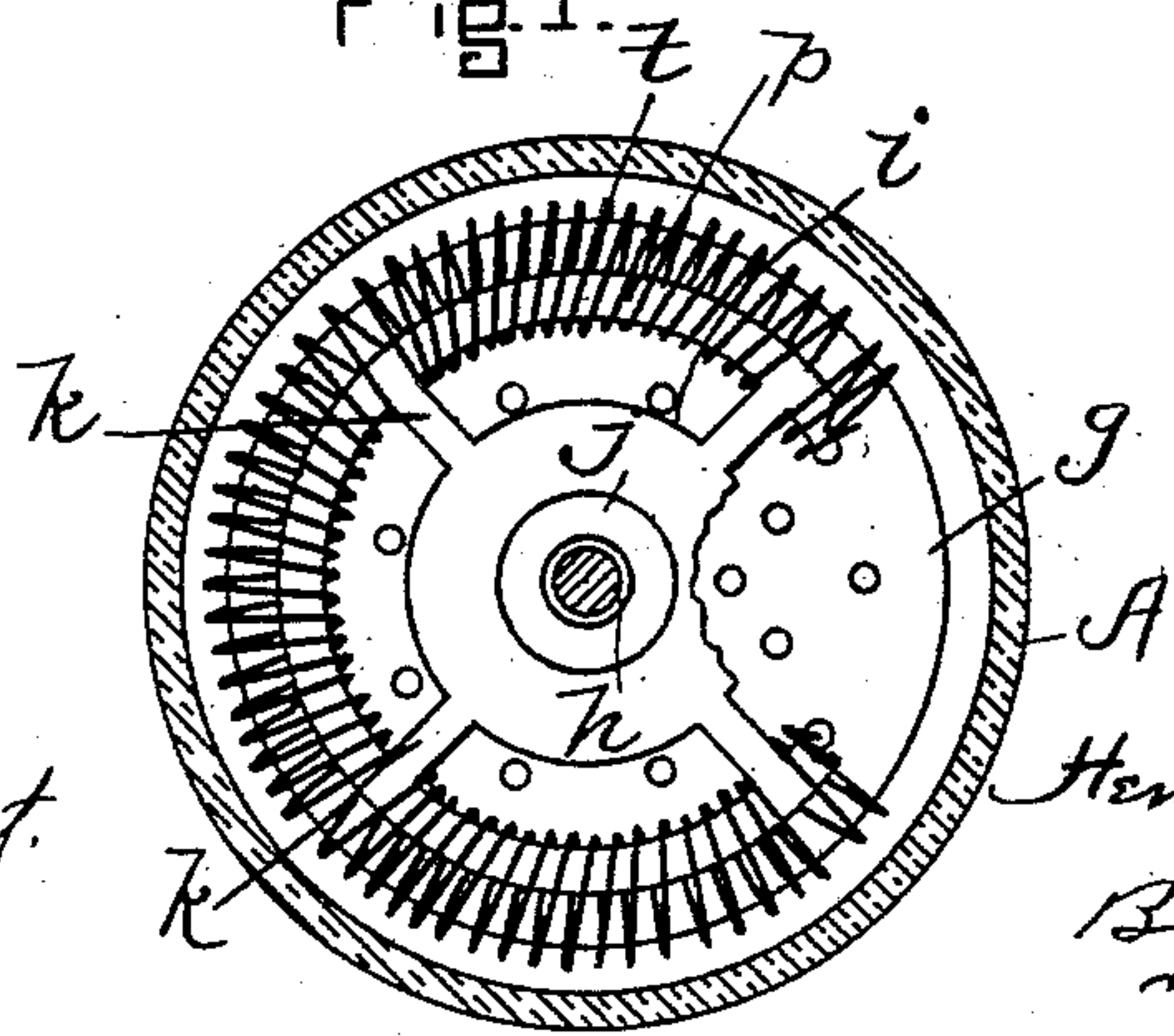


Fig. 2.

WITNESSES.

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HENRY T. CREPEAU, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HUGH CAMPBELL, OF SAME PLACE.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 632,780, dated September 12, 1899.

Application filed July 23, 1898. Serial No. 686,725. (No model.)

To all whom it may concern:

Be it known that I, HENRY T. CREPEAU, of Boston, in the county of Suffolk and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Egg Beaters and Mixers, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical transverse section showing my improved egg-beater in position for use, and Fig. 2 a horizontal section on line 2 2 in Fig. 1.

Like letters of reference indicate corresponding parts in both figures of the drawings.

My invention relates especially to that class of egg-beater which comprises a vertically-reciprocating plunger and which may be employed with an ordinary goblet or similar receptacle, so that it may also be utilized for mixing liquid drinks and materials other than eggs, the object being to produce a simple, cheap, and effective device of this character.

The nature and operation of the invention may be understood from the following explanation:

In the drawings, A represents an ordinary drinking-glass, in which the beating mechanism is disposed. This mechanism comprises a piston-rod B, provided at an end with a detachable knob or handle *d*. This rod is fitted to slide freely through a metallic conical cover C, flanged at *f* to overlap and close the mouth of the receptacle A. On the lower end of the rod B is fast a concave head or disk *g*, which is perforate and of a diameter suitable to pass to the bottom of the receptacle. At a suitable distance above the head *g* on the rod B there is a boss or stop-flange *h*. A disk *i*, provided with a hub *j*, is fitted to slide freely on the rod between the head *g* and stop *h*. This disk has radiating spokes *k* connecting it with an annular rim *p*. A spirally-wound spring A encircles this rim. Said spring being thus bent into a circle tends to resume its normal position, and thus bears radially against the inner edge of the rim. While the diameter of the rim is somewhat less than that of the head

g, the diameter of the spring carried thereby is greater than said head, so that a horizontal or diametrical movement may be imparted as said spring engages the walls of the receptacle. 55

In the use of my improvement the eggs or other material to be beaten or mixed are placed in the flaring receptacle A. The cover C is then adjusted thereon and held by one hand of the operator. The plunger B being forced downward, the foraminous head *g* is projected through the contents which is cut as it presses through the perforations until said head reaches the bottom of the glass. The plunger is rapidly reciprocated vertically, and the weight or density of the contents causes the spring bearing-disk *j* to remain stationary therein until engaged either by said head or the stop *h*, which impact blows thereto and then causes said disk to move with the plunger. The spring serves to cut and whip the eggs by its additional sidewise or horizontal movement in a manner that will be understood by those conversant with such matters. 65 70

The action of my device, as described, is very rapid and effective, the foraminous head *g* imparting a constant vertical flow to the contents, said flow being cut across by the action of the spring. Moreover, the disk *i*, operating above the foraminous plunger-head and between it and the stop, acts as a "whipper," and I find that in practice it will produce or churn butter from the small quantity of cream the receptacle A will hold in an almost increditably short space of time. I am aware that plungers for this purpose have been provided with foraminous heads and some with a movable body under said head, but such will not and from their construction cannot produce the results I effect. The stop *k* may of course be located at any desired distance above the head *g*, and the play of disk *i* be thereby regulated. I therefore deem it an essential feature of my invention to locate a sliding cutting-disk above the foraminous plunger-head and fitted to slide on the plunger-rod. Attention is furthermore called to the fact that at intervals during the travel of the rod B the disk *i* is held stationary in the dense liquid and when contacted either by stop *h* or head *g* is carried thereby to be again left by reciprocation of the rod. This con- 75 80 85 90 95 100

stantly disposes it in different positions in the contents when the blows are administered and adds materially to its effectiveness.

Having thus explained my invention, what I claim is—

1. An egg-beater comprising a plunger having a disk-shaped foraminous head and a stop on its rod; a disk fitted to slide on said rod between its head and said stop; and a spirally-wound spring encircling the periphery of said disk.

2. In combination the receptacle, A, and cover, C; the plunger fitted to slide in said cover and provided with the foraminous head and stop; the spoked disk fitted to slide on said rod between its head and stop and the

spirally-wound spring encircling the rim of said disk substantially as and in the manner set forth.

3. In an egg-beater the combination of a receptacle; a cover closing the mouth thereof; a plunger-rod fitted to be reciprocated through said cover and carrying a foraminous head on its inner end; a stop on said rod between its head and said cover; and a whipping-disk mounted to slide on said rod above said head and between it and said stop substantially as and for the purpose specified.

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Witnesses:

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