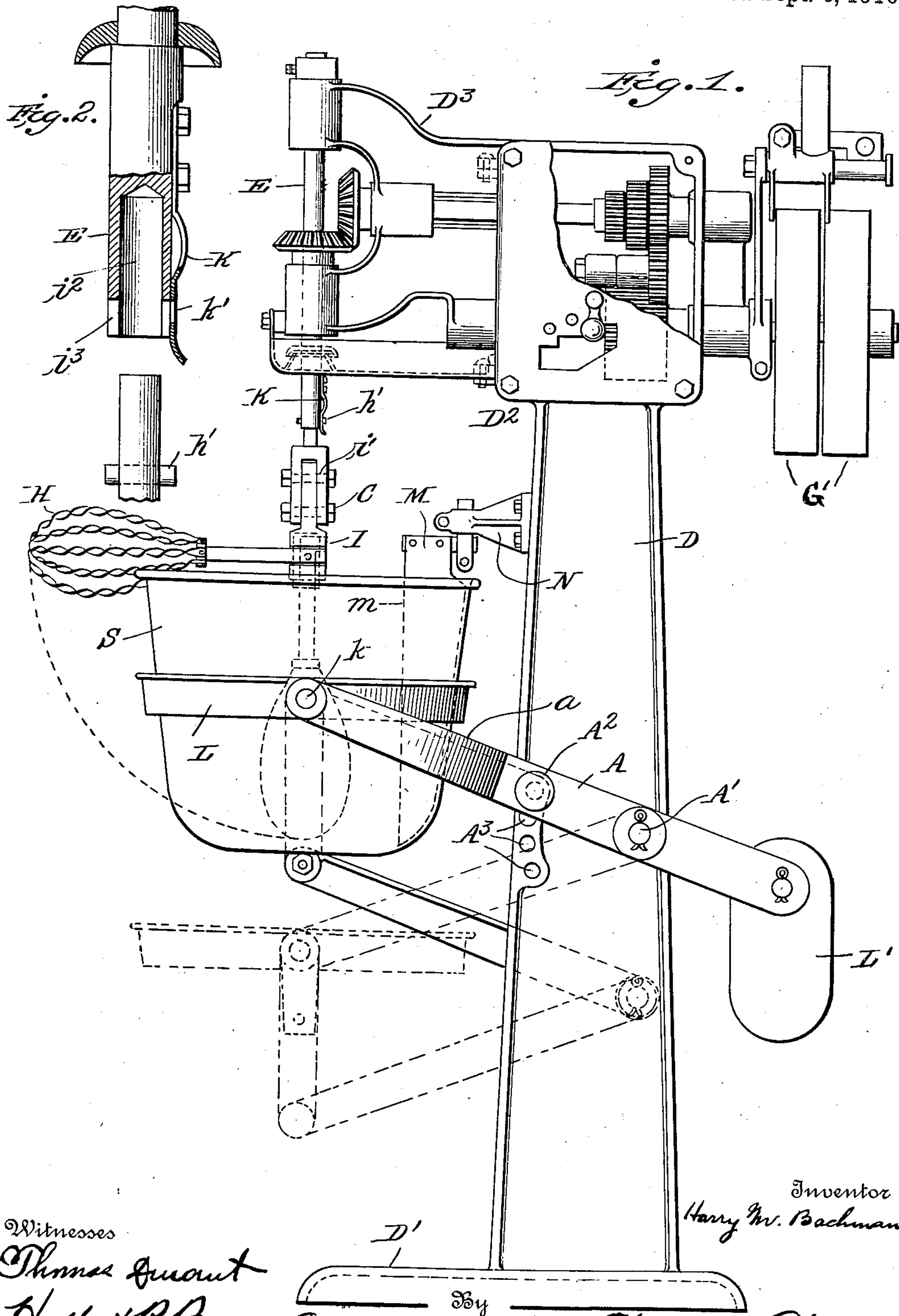


H. M. BACHMAN.
CREAMING AND BEATING MACHINE.
APPLICATION FILED NOV. 11, 1909.

969,324.

Patented Sept. 6, 1910.



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UNITED STATES PATENT OFFICE.

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CREAMING AND BEATING MACHINE.

969,324.

Specification of Letters Patent.

Patented Sept. 6, 1910.

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To all whom it may concern:

Be it known that I, HARRY M. BACHMAN, a citizen of the United States, residing at Fishkill-on-the-Hudson, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in Creaming and Beating Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the figures and letters of reference marked thereon.

This invention relates to improvements in machines for mixing and beating eggs, cream, batter, etc., the objects of the invention being to provide a machine in which the materials may be most thoroughly agitated and mixed.

The invention consists in certain novel details of construction and combination and arrangements of parts, all as will be now described and the particular features of novelty pointed out in the claims.

In the accompanying drawings—Figure 1 is a side elevation of a beating machine embodying the present improvements; Fig. 2 is a detail view showing the manner of mounting the beater in the chuck or holding head.

Similar letters of reference in the several figures indicate the same parts.

Referring to the drawings, the letter D represents a vertical standard, having a base D' and head D². This head D² supports an overhanging arm D³ in which is journaled a vertical shaft E, to which motion is imparted from any suitable source of power through pulleys G'. The shaft E carries the beating or mixing implement such, for instance, as the whisk or whip H, and the chuck or head I in which the same is mounted is preferably pivotally connected with the lower end of the shaft at i' and adapted to be securely clamped by a bolt C in whatever position it may be adjusted.

As a convenient means for mounting the whip or whisk in the shaft E, the latter is formed with a socket i² adapted to receive the stem of the whisk or whip and lower end of the shaft E is formed with a transverse slot i³ with which coöperates a transverse pin h' carried by the stem of the whip or

whisk. Mounted upon the shaft E is a spring plate or finger K having an opening k' therein adapted to pass over the end of the pin h' when the stem is inserted in the socket and thus hold the whisk or whip securely in place, as will be readily understood. The lower end of the spring finger K is curved outward and extends below the lower end of the chuck so that it may be readily lifted from engagement with the pin on the whisk stem when it is desired to remove the whisk or beater. By such an arrangement the beater may be quickly and easily mounted in operative position or removed, when desired.

The bowl or receptacle S in which the materials are beaten or whipped is supported or carried in a ring or carrier L having oppositely projecting trunnions k journaled in the forwardly projecting arms a of a supporting frame A pivotally mounted on the standard at A', and having means such as pins A² adapted to engage apertures A³ in the standard for locking the supporting ring at the desired level. If desired, a counterweight L' may be mounted on the end of the frame A.

In order that the materials may be thoroughly mixed, the bowl or receptacle is provided with a breaker M, against which the material in its swirling motion will be dashed and broken up. The breaker M consists preferably of a flat steel plate having a straight front edge m, the rear edge conforming to the contour of the inner face of the wall of the bowl and extending from the top to substantially the bottom of the bowl. The breaker is carried by a bracket N fixed to the standard D in such position that when the bowl is in operative position the breaker will extend down into the bowl.

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

1. In a creaming and beating machine, the combination with the standard, of the receptacle, the vertically arranged beater shaft and means for rotating the shaft, a socketed chuck or beater holder carried by said shaft having a transverse slot in its lower end, a beater or whisk having a stem adapted to be received in the chuck or holder, a transverse pin carried by the stem and adapted to be received in the slot in the chuck or holder,

and a spring finger or plate carried by the chuck having an opening therein and adapted to take over the pin to hold the beater in place.

- 5 2. In a creaming and beating machine the combination with the beater shaft mounted in fixed journals, a beater carried by said shaft, and a breaker carried by a support in fixed relation to the journal of the beater
10 shaft of a vertically movable bowl or receptacle adapted to be moved into working position with relation to both the beater and breaker.

3. In a creaming or beating machine, the

combination with the standard, vertically arranged beater shaft and means for rotating said shaft, of the beater carried by said shaft, a bowl or receptacle, a frame pivotally mounted on the standard in which said bowl is carried, and a breaker fixed to said standard and adapted to extend down into the bowl when the latter is elevated into working position.

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