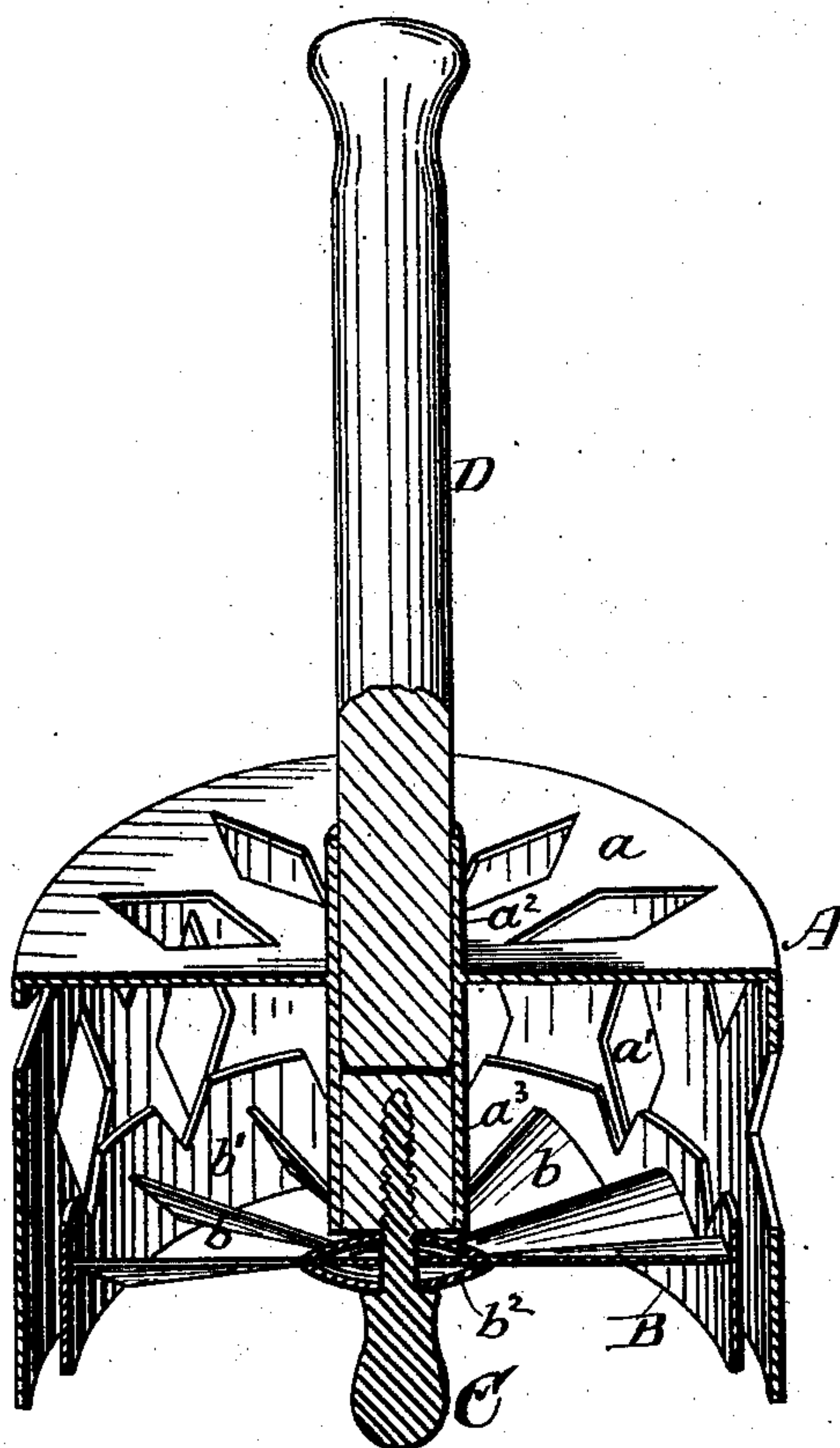


(No Model.)

D. H. ALLEN.
AGITATOR OR EGG BEATER.

No. 248,004.

Patented Oct. 11, 1881.



Witnesses:
H. H. Hunt
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By

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Att'y.

UNITED STATES PATENT OFFICE.

D. H. ALLEN, OF BRANDENBURG, KENTUCKY.

AGITATOR OR EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 248,004, dated October 11, 1881.

Application filed August 25, 1881. (No model.)

To all whom it may concern:

Be it known that I, D. H. ALLEN, a citizen of the United States of America, residing at Brandenburg, in the county of Meade and State of Kentucky, have invented certain new and useful Improvements in Agitators for General Purposes, such as Egg-Beaters, &c.; 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, reference being had to the accompanying drawing, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to that class of implements known, broadly, as "agitators," and specifically as "egg-beaters," "churn-dashers," &c.; and its object is to produce a device of such character as to be effective in its operation, simple and cheap in construction, composed of few and compact parts, and easily separable for the purpose of cleansing after use; and with these objects in view my invention consists in the combination of elements hereinafter described, and specifically set forth in the claims.

Referring to the drawing, A represents the cylinder; B, the agitator proper; C, the retaining-screw, and D the handle.

The cylinder is perforated at the top a , and at the upper half of its side a' , and is provided with a central vertical tube, a^2 , closed at its lower end, a^3 , where it is adapted to receive the retaining-screw C.

The agitator consists of the vanes b , all inclined in a uniform angle and in the same direction, and united at their outer ends to a flange or rim, b' , the upper edge of which is notched and extends above the lowest point reached by the side perforations of the cylinder, while the lower edge projects below the vanes b and is imperforate. The central portion of the agitator consists of the middle portion of the plate, forming the vanes, and integral therewith, which middle portion is surmounted by and set upon washers b^2 , which are attached to said middle portion, thus forming an upper and lower bearing-surface for the agitator. The screw C passes through the center of the agitator and is secured in a thread formed in the closed end, a^3 , of the tube, and

is provided with a suitable shoulder or bearing for the lower washer, b^2 . The handle D may extend to and close the lower end of the tube at a^3 .

I do not confine myself to any particular material in the construction of my device or any portion thereof, nor to any particular size or sizes of the same, but will suggest that the cylinder and agitator may be constructed of sheet-iron, tin, or cast-iron, and it may or may not be galvanized or otherwise protected from rust, occasioned by its use in various liquids or semi-liquids.

The operation of my agitator is as follows: It will be readily seen that it is designed to be used with a vertical reciprocatory movement. The liquid, passing through the perforations a in the top of the cylinder, acts more directly upon the vanes b and causes the agitator B to revolve on its axis, and its upwardly-projecting notched flange or rim b' to cut separate and intermingle the liquid entering the side perforations, a' , this operation taking place on an upward movement of the device; while with a downward movement of the same the agitator B is caused to revolve, and cuts and intermingles the liquid as it passes out of the side perforations, a' , and top perforations, a , thus producing what actual use has shown to be an eminently successful device.

Having described my invention and its operation, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the cylinder A, having top perforations, a , and side perforations, a' , extending partly down the sides thereof, with the agitator B, having an upwardly-projecting flange, notched as shown and described, and reaching above the lowest point reached by said side apertures, substantially as shown and described.

2. The perforated cylinder A, having the central tube, a^2 , in combination with the agitator B, provided with the vanes b , washers b^2 , and the screw C and handle D.

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

D. H. ALLEN.

Witnesses:

A. W. MOREMEN,
C. C. FAIRLEIGH.