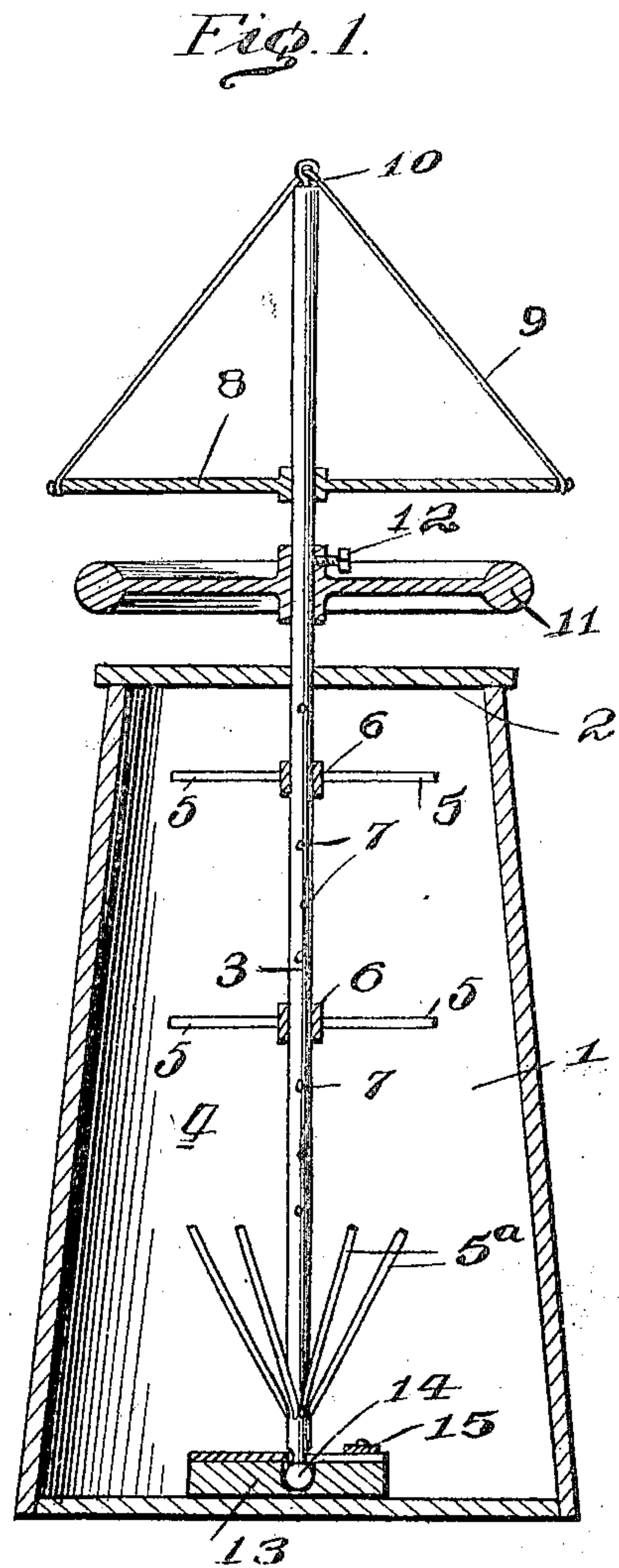
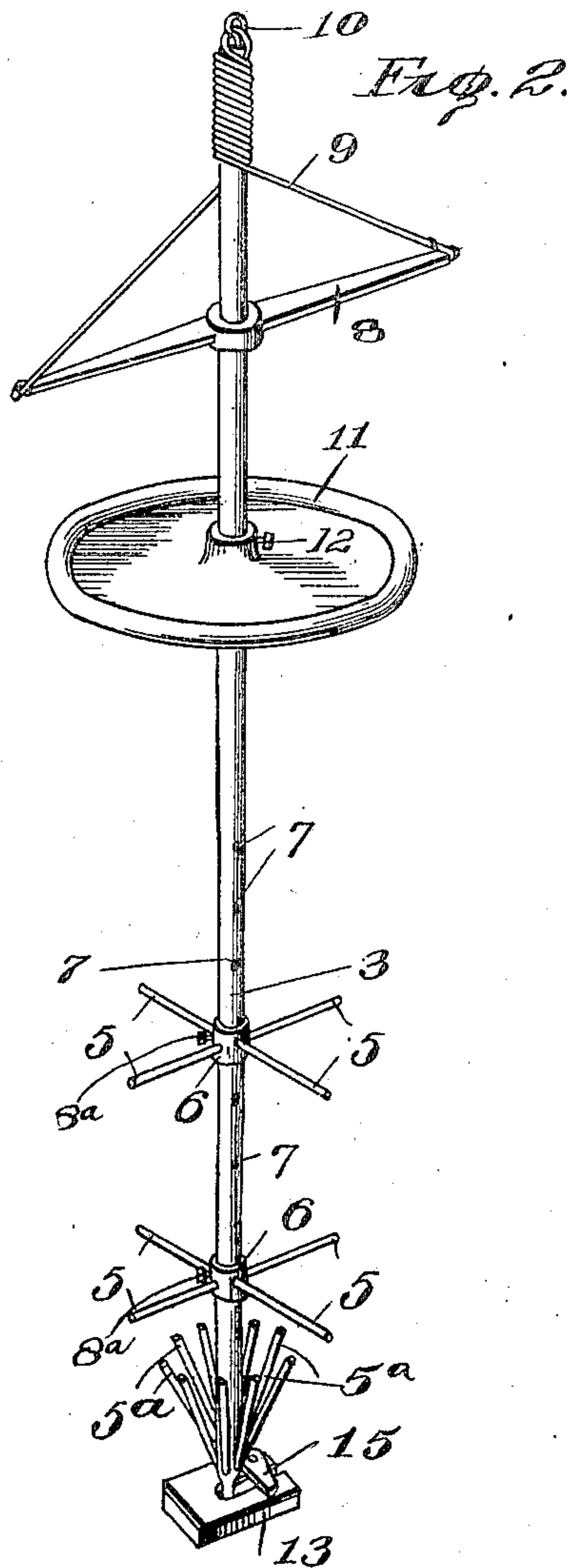


No. 812,819.

PATENTED FEB. 20, 1906.

H. L. BUSCH.
CHURN OPERATING MECHANISM.
APPLICATION FILED DEC. 1, 1905.



Inventor
Horace L. Busch.

Witnesses

Mr. J. M. H. Woodson

By

Phad R. Lacey, Attorneys.

UNITED STATES PATENT OFFICE.

HORACE L. BUSCH, OF DE QUEEN, ARKANSAS.

CHURN-OPERATING MECHANISM.

No. 812,819.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed December 1, 1905. Serial No 289,905.

To all whom it may concern:

Be it known that I, HORACE L. BUSCH, a citizen of the United States, residing at De Queen, in the county of Sevier and State of Arkansas, have invented certain new and useful Improvements in Churn-Operating Mechanism, of which the following is a specification.

The object of this invention is to provide a simple and effective operating mechanism which is adapted to be used on almost any of the forms of churns at present in use.

The invention resides particularly in the general structure of the parts, including the peculiar form of the dasher and special means for holding said parts in operative position when in use.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a vertical section of a churn-operating mechanism embodying the invention. Fig. 2 is a perspective view of the operating mechanism alone.

Corresponding and like parts are referred to in the following description and indicated in both views of the drawings by the same reference characters.

Referring to the drawings, the numeral 1 indicates the churn, and the numeral 2 the cover thereof. The cover 2 is provided with the usual opening through which the dasher-rod 3 of the dasher 4 passes. The dasher 4 consists of the rod 3 and a plurality of arms 5 projecting outwardly from the rod. The arms 5 are preferably carried by a ring or rings 6, received on the dasher-rod 3, which latter is provided at intervals in its length with recesses 7. A set-screw 8^a is carried by each ring 6, and its inner end is adapted to any one of the recesses 7, so as to position the arms 5 at the desired point of adjustment with regard to the dasher-rod. Certain of the arms 5 may be arranged horizontally, while others, preferably at the lower portion of the dasher-rod, will incline upwardly, the latter arms being indicated at 5^a.

The means for operating the dasher 4 is de-

signed to rotate the rod 3, and such means comprises a lever 8, provided with an opening at a point between its ends through which the upper portion of the dasher-rod 3 is adapted to pass. The lever 8 has a cord 9 connected with its ends, said cord 9 passing through an opening in the upper end of the rod 3, as shown at 10, being thereby secured thereto. A fly-wheel 11 is mounted on the dasher-rod 3 and is held in place by a set-screw 12, whereby said fly-wheel may be raised or lowered so as to be adjusted to admit of the use of the mechanism on churns of various sizes. The wheel 11 will be arranged just above the churn.

In the operation of the machine the wheel 11 may be given a rotary motion by application of the hand, and the cord 9 will be twisted about the rod 3, which is rotated also. Then by pulling down on an end of the lever 8 the tension on the cord will incline the same, imparting reverse rotation to the rod 3 and reversely winding the cord 9 thereon, the fly-wheel causing the reverse winding above mentioned. The machine may be operated by both a downward and upward movement of the lever 8.

An important feature of the invention is comprised in the provision of a weighted bearing 13 for the lower end of the rod 3. The bearing 13 preferably comprises a block provided with a recess in its upper side which forms the general bearing for the lower end of the rod 3, such end of the rod 3 having a reduced head portion 14, received in the bearing 13 and held in such position by a small latch 15. The weight of the bearing 13 is sufficient to prevent upward movement of the rod 3 and the part may be readily detached when desired.

Having thus described the invention, what is claimed as new is—

1. The combination of a churn, a dasher therefor consisting of a rotatable dasher-rod means for rotating said rod, a bearing for the lower end of the dasher-rod comprising a block removable from the churn, and a latch for detachably connecting the block with the dasher-rod.

2. In combination, a churn, a dasher comprising a dasher-rod provided at intervals in

its length with recesses, a plurality of agitating-arms projecting from the dasher-rod, rings affixed to the dasher-rod and carrying the arms aforesaid, and set-screws passing
5 through the rings and adapted to have the inner ends thereof received in the recesses on the dasher-rod.

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

HORACE L. BUSCH. [L. s.]

Witnesses:

WM. LAUBER,
O. O. HAMMOND.