

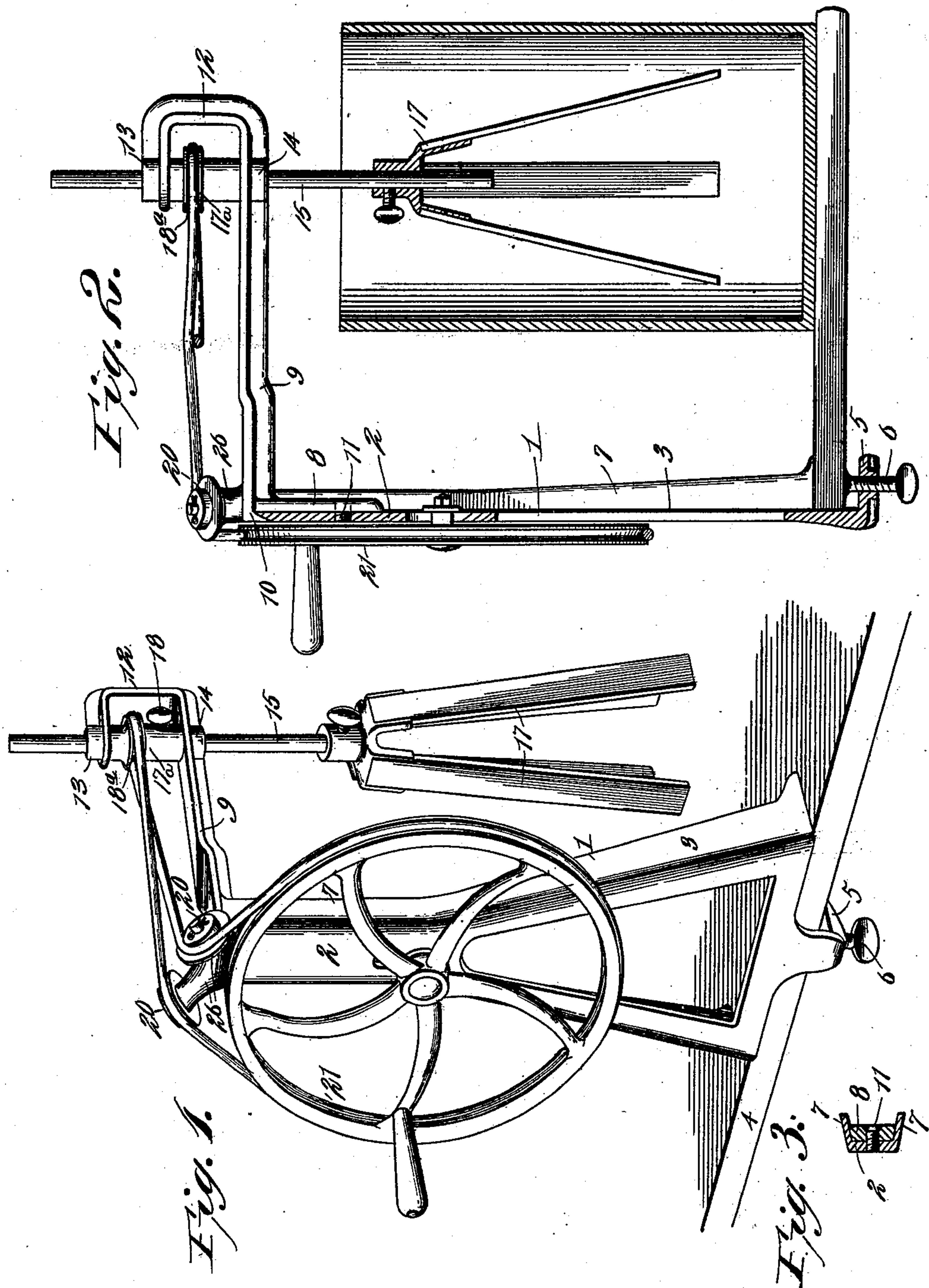
No. 670,469.

Patented Mar. 26, 1901.

J. H. COOPER.
CHURN.

(Application filed Nov. 26, 1900.)

(No Model.)



Witnesses

C. H. Walker.
J. H. Riley.

J. H. Cooper; Inventor.
by C. Snowles.
Attorneys

UNITED STATES PATENT OFFICE.

JACOB H. COOPER, OF ABINGDON, ILLINOIS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 670,469, dated March 26, 1901.

Application filed November 26, 1900. Serial No. 37,832. (No model.)

To all whom it may concern:

Be it known that I, JACOB H. COOPER, a citizen of the United States, residing at Abingdon, in the county of Knox and State of Illinois, have invented a new and useful Churn, of which the following is a specification.

The invention relates to improvements in churns.

The object of the present invention is to improve the construction of churns, more especially the frame for supporting the mechanism for rotating the dasher, and to provide a simple and comparatively inexpensive frame or support which will possess great strength and durability and which may be cheaply manufactured and readily arranged for use.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a churn provided with a frame or support constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a detail sectional view illustrating the manner of connecting the arm and the standard.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a vertical standard having a straight vertical upper portion 2 and provided with an enlarged approximately triangular lower portion 3, adapted to rest upon a table or other suitable support 4, as clearly illustrated in Fig. 1 of the accompanying drawings, and the bottom of the standard is provided with a centrally-arranged depending jaw 5, having a threaded opening for the reception of the clamping-screw 6 for engaging the lower face of the support 4. The straight upper portion of the standard is provided with inwardly-extending side flanges 7, which also extend down to the base of the standard. The side flanges 7 form a recess at the inner face of the standard for the reception of a depending portion 8 of a horizontal arm 9, which is also provided at the top of the said depending portion 8 with a beveled lip 10, arranged to engage over the upper edge of the standard, and the latter is correspondingly beveled, as clearly illustrated in Fig. 2 of the accompanying drawings,

whereby the parts are firmly interlocked. 55
The arm 9, which coöperates with the standard to form a frame or support for the operating mechanism of the churn, is disposed horizontally, and the depending vertical portion 8, which is arranged at the inner end of the arm, is secured to the standard by means of a screw 11 or other suitable fastening device, and the said arm 9 is also preferably constructed of flanged metal. The outer end of the arm is provided with an upwardly-extending L-shaped portion 12, having upper and lower bearings 13 and 14 for a vertical dasher-shaft 15, which carries a dasher 17. The L-shaped portion 12 of the arm 9 forms a recess for the reception of a pulley 17^a, which is secured to the dasher-shaft by a clamping-screw 18.

The vertical pulley receives a belt which extends longitudinally of the horizontal arm 9 to the inner end thereof to a pair of angularly-disposed pulleys 20, from which the belt extends to a drive-wheel 21. The horizontal arm is provided at its inner end with upwardly-extending diverging enlargements 26, which terminate in spindles or journals for the reception of the pulleys 20.

It will be seen that the standard and the supporting-arm 9 form a strong and rigid frame for supporting the operating mechanism for rotating the dasher-shaft, that the said standard and the arm may be cast separately, and that they may be quickly and securely assembled when desired.

What I claim is—

In a device of the class described, the combination of a standard, a horizontal arm adapted to support a dasher and provided at the inner face of the standard with a depending portion and having a lip located at the top of the depending portion and engaging over the upper edge of the standard, whereby the arm is rigidly supported thereon, said arm and the standard being adapted to support the mechanism for operating the dasher, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JACOB H. COOPER.

Witnesses:

W. A. THOMAS,
STRAWTHOR GIVENS.