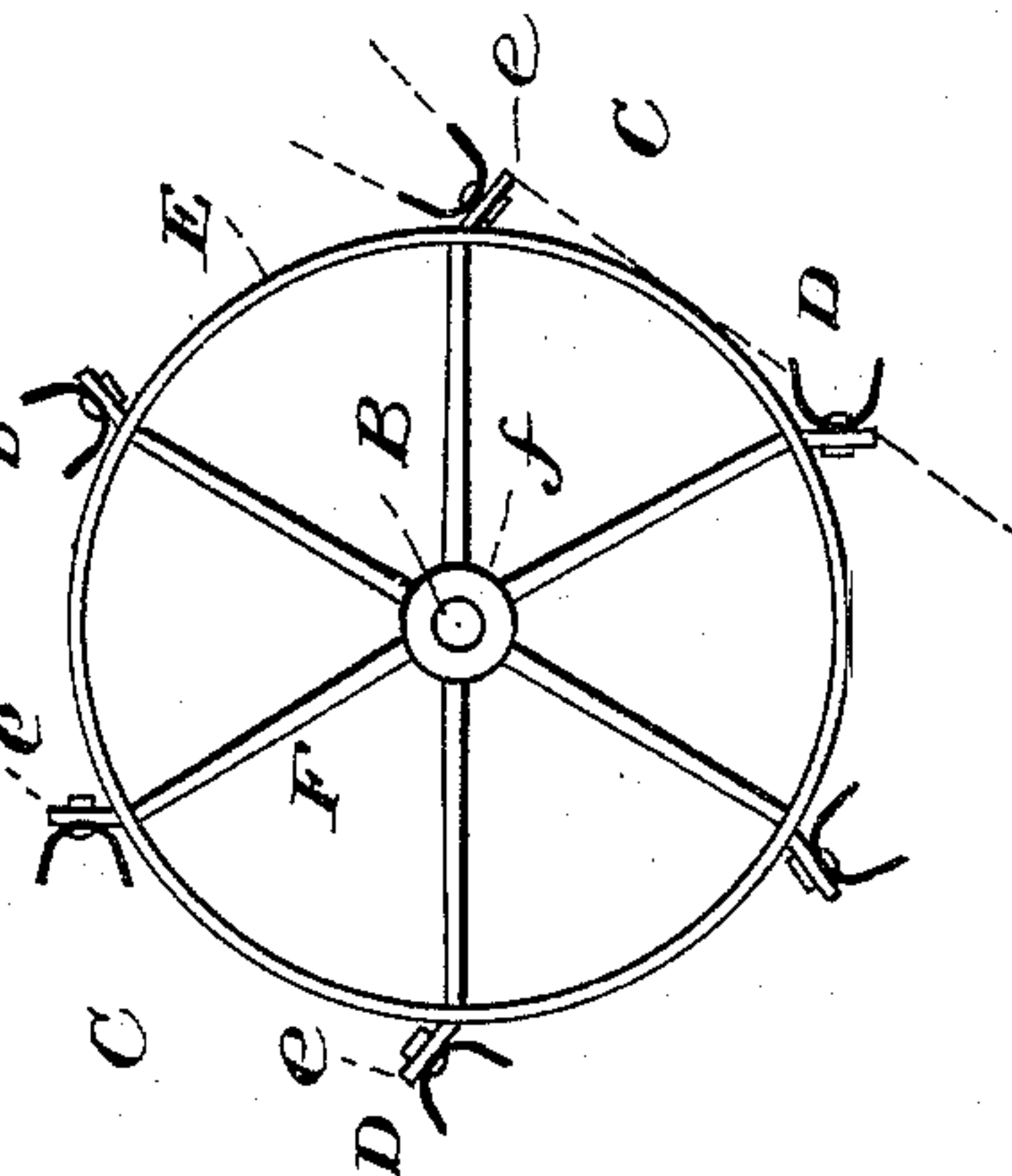
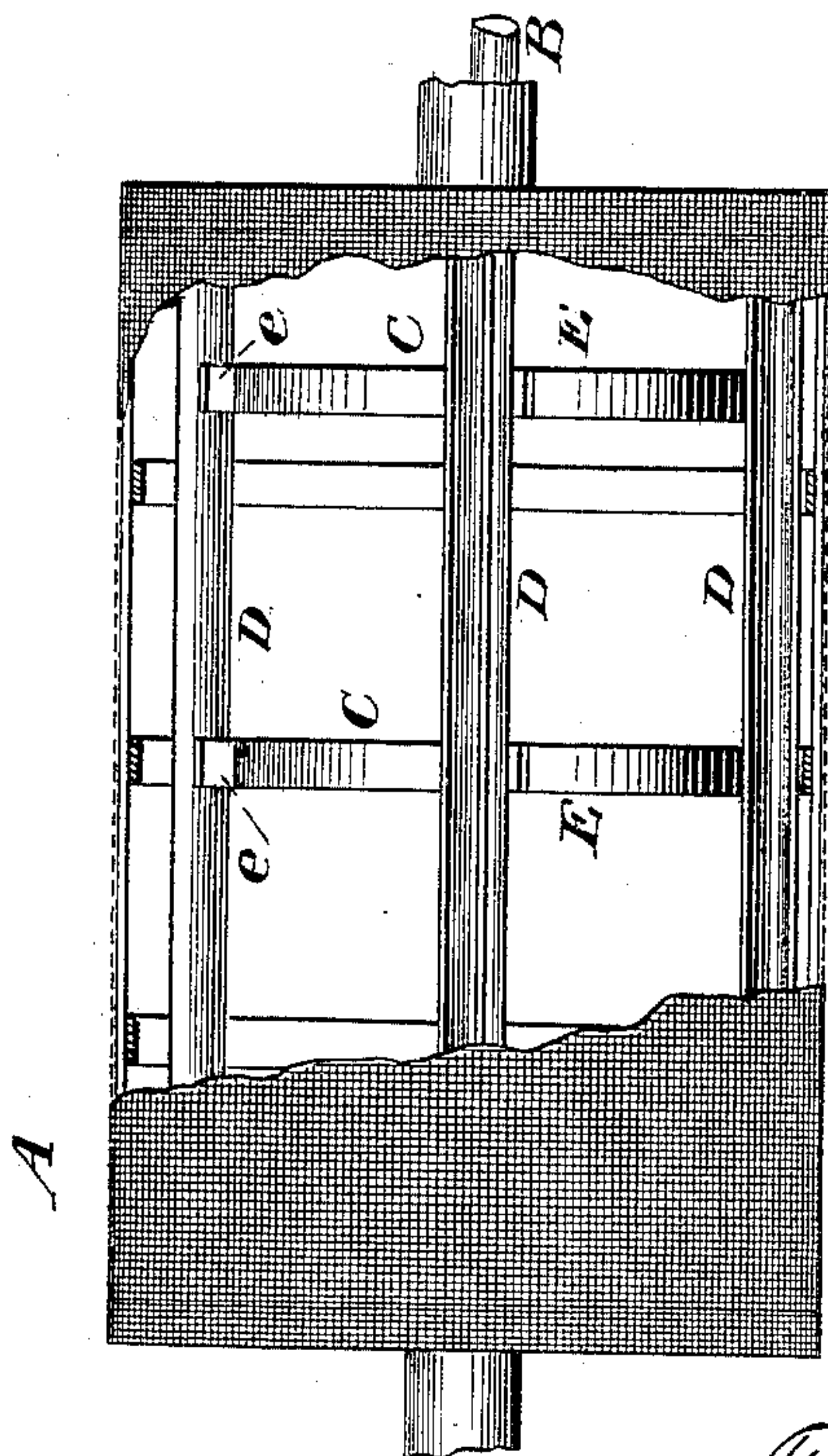
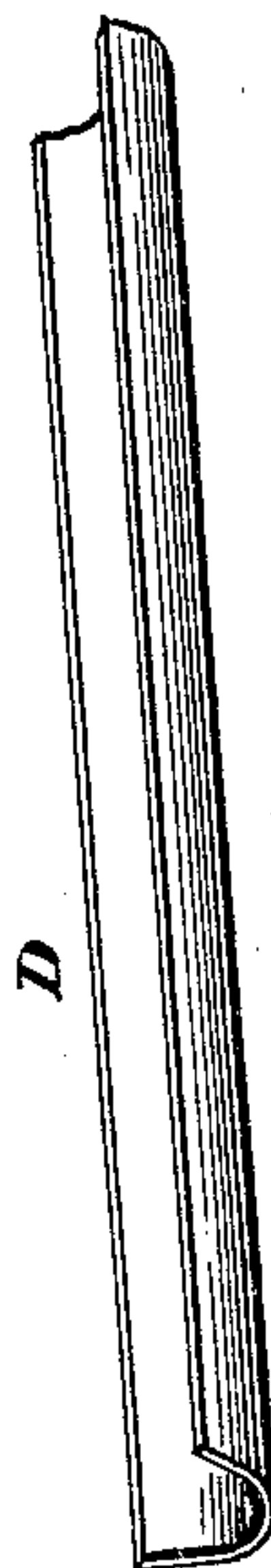
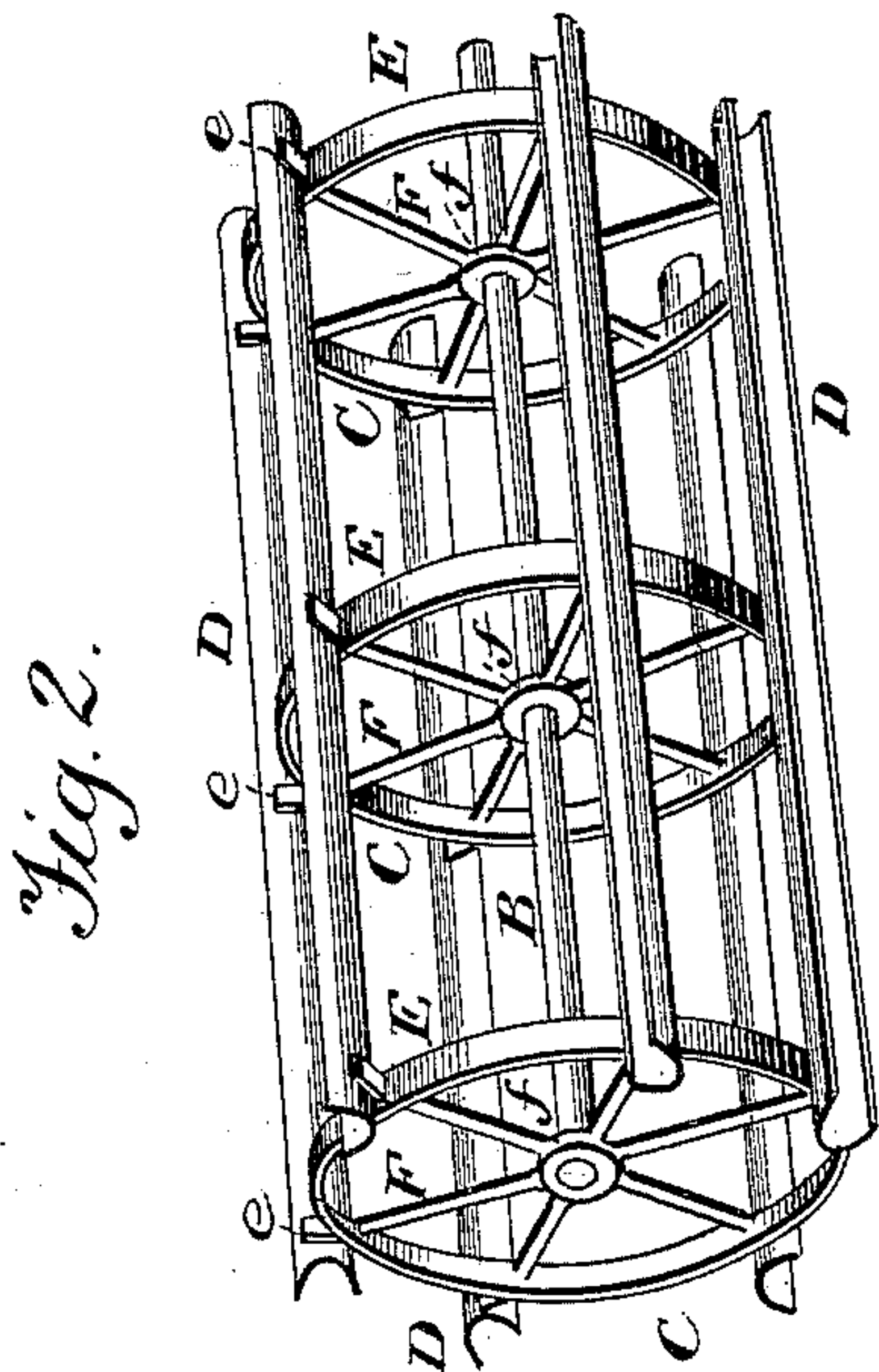


(No Model.)

F. P. TRAUTWEIN.
BOLTING REEL.

No. 452,812.

Patented May 26, 1891.



Witnesses.
A. Ruppert.

A. L. Hough

Inventor:

Ferdinand P. Trantwein
by Franklin H. Hong
His Attorney

UNITED STATES PATENT OFFICE.

FERDINAND PHILLIP TRAUTWEIN, OF LUTESVILLE, MISSOURI.

BOLTING-REEL.

SPECIFICATION forming part of Letters Patent No. 452,812, dated May 26, 1891.

Application filed February 11, 1891. Serial No. 381,029. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND PHILLIP TRAUTWEIN, a citizen of the United States, residing at Lutesville, in the county of Bollinger and State of Missouri, have invented certain new and useful Improvements in Bolting-Reels; and I do 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 drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in bolting-reels of that class in which the axis of the bolting-reel is in a horizontal position, and which are provided with agitators concentric with the bolting-reel for the purpose of lifting up the flour or other ground cereal and throwing it against the sides of the bolting-reel.

The improvement consists in such other features and details of construction as will be hereinafter more fully described and claimed, and which are shown in the accompanying drawings, in which—

Figure 1 is a side view, parts being broken away, of a flour-bolt embodying my improvements. Fig. 2 is a perspective view of the improved agitator. Fig. 3 is an end view of the agitator, and Fig. 4 is a detail view of the longitudinal pockets.

The bolting-reel A may be of any desired pattern, and is operated in the usual manner. The agitator, which is eccentric with the reel A and placed therein, is composed of the shaft B, supports C, and the longitudinal trough-shaped pockets D. The supports C are provided in sufficient number and located at proper intervals along the shaft and comprise a hub *f*, spokes F, ring E, connecting and bracing the spokes and the arms *e*, the latter projecting obliquely from the ring, pref-

erably in line with the spokes, although this arrangement is not essential, as the arms may be located at any convenient position on the ring. The trough-shaped pockets D extend parallel with the shaft B and are secured to the arms *e*. The sides of the pockets flare slightly and are tangential to the supports or the rings E thereof. (See the dotted lines in Fig. 3.)

The operation of the machine is practically the same as those in general use, the bolting-reel A and the agitator being revolved in the same direction and at a differential of two revolutions to one of the reel A by any well-known mechanism. The longitudinal pockets scoop up the flour and carry it up and throw it against the sides of the bolting-reel. Owing to the flaring sides of the pockets and the relative tangential arrangement of the said sides to the supports, as hereinbefore stated, the flour will not catch and hang in the pockets, but will all be thrown against the sides of the flour-bolt in the rotation of the agitator.

Having thus described my invention, what I claim as new is as follows:

The herein-described agitator, consisting of the shaft B, the supporters C, comprising each a hub, spokes, a ring connecting and bracing the spokes, and the arms *e*, projecting obliquely from the ring in line with the spokes, and the separately-formed longitudinal trough-shaped pockets parallel with the shaft and secured to the arms *e* beyond the rings, with their sides flaring slightly and tangentially to the rings, substantially as shown and described.

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

FERDINAND PHILLIP TRAUTWEIN.

Witnesses:

F. M. WELLS,
JOHN HUSKEY.