

W. SEACHRIST.
Churn.

No. 209,195.

Patented Oct. 22, 1878.

FIG. 1.

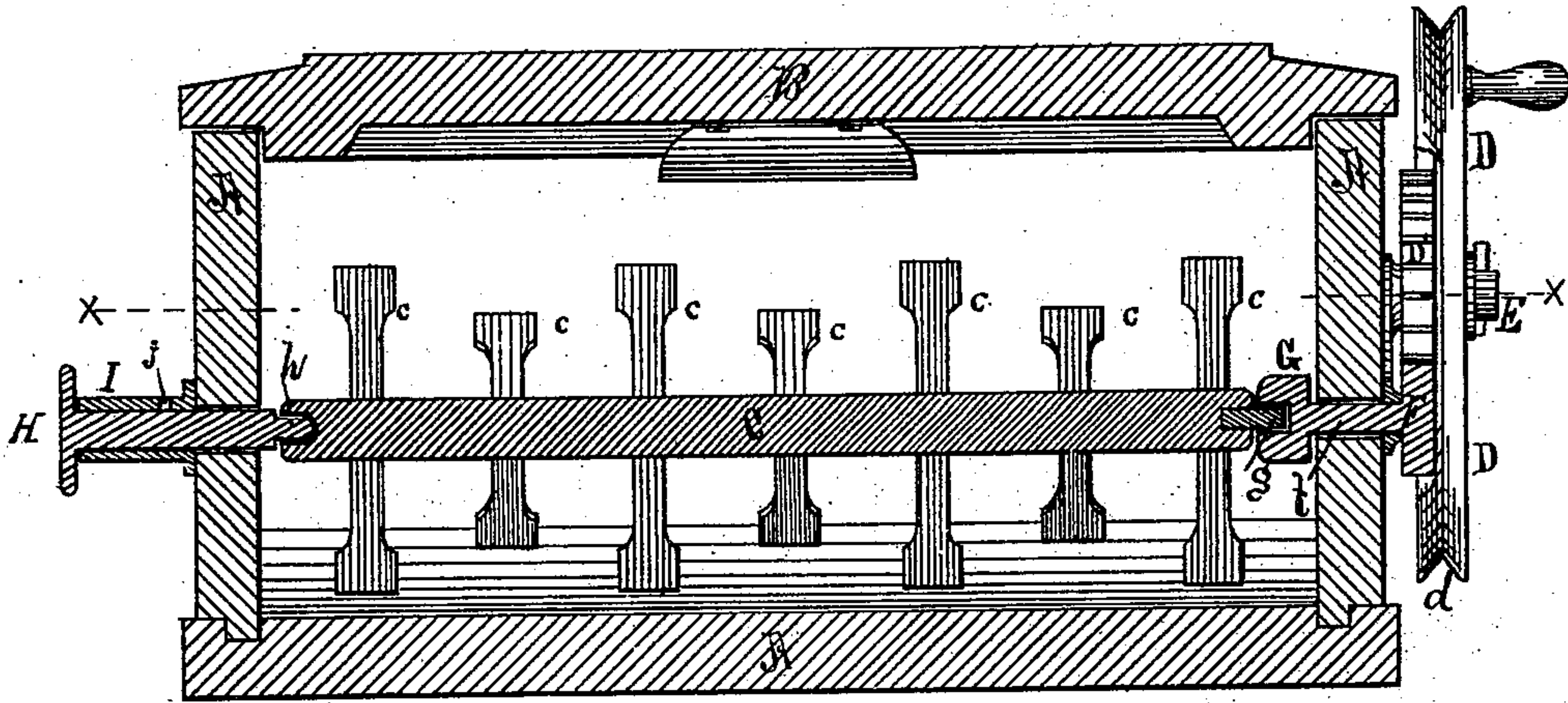
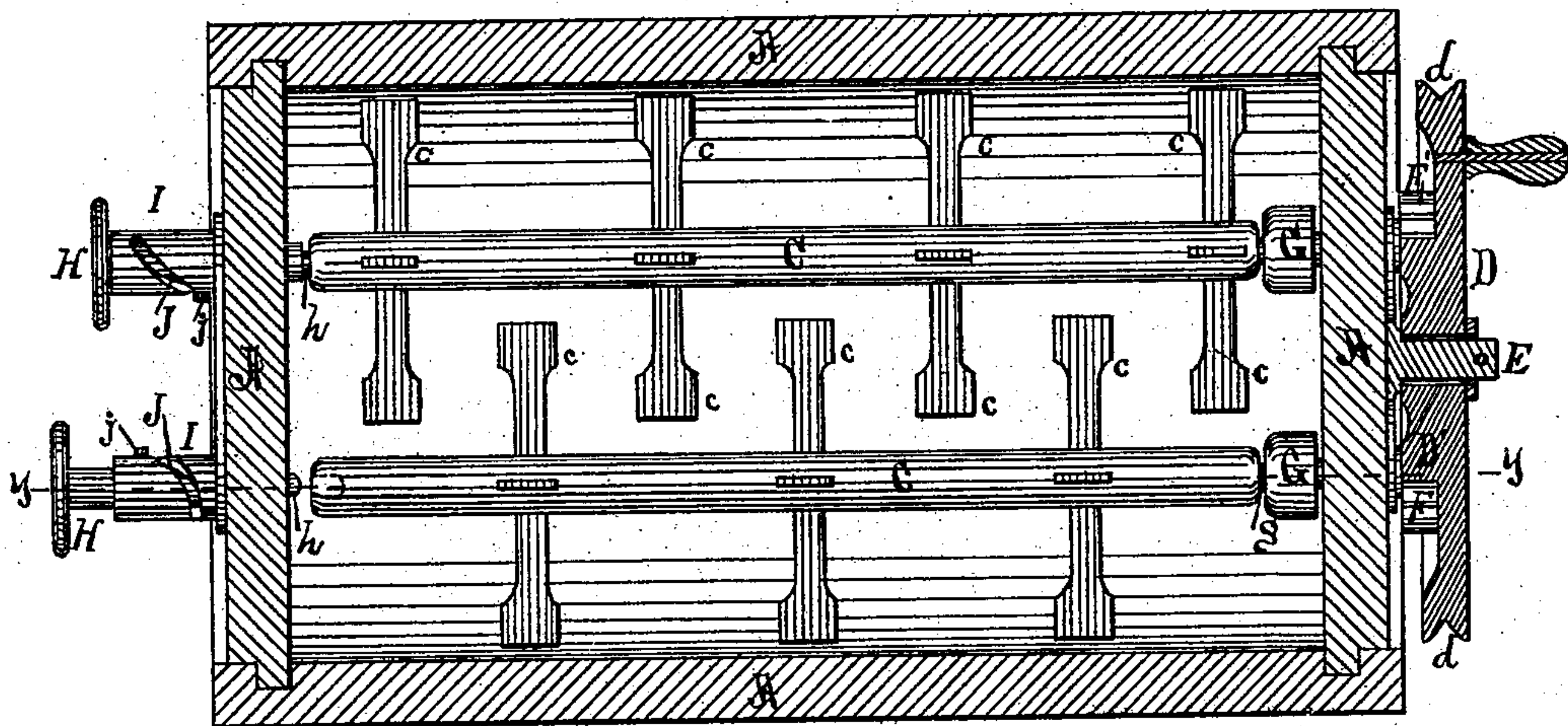


FIG. 2.



Attest,

*Jas. S. Miller
 D. W. Dean*

Inventor

William Seachrist

Per *John K. M. Lock*
Att'y.

UNITED STATES PATENT OFFICE.

WILLIAM SEACHRIST, OF ERIE, PENNSYLVANIA, ASSIGNOR TO J. C. MACK
AND M. DURNER, OF SAME PLACE, ONE-THIRD TO EACH.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **209,195**, dated October 22, 1878; application filed
March 30, 1878.

To all whom it may concern:

Be it known that I, WILLIAM SEACHRIST, of Erie, in the county of Erie and State of Pennsylvania, have invented a new and useful Churn; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to the construction of that class of churns in which the dashers are on a horizontal shaft which is adapted to be revolved.

The manner in which I construct my churn, and the object and purpose of my invention, will fully appear in the following general description.

My device is shown in the accompanying drawing, as follows:

Figure 1 is a longitudinal vertical section on the line *yy* in Fig. 2. Fig. 2 is a longitudinal horizontal section on the line *xx*, Fig. 1.

The letters of reference indicate parts, as follows:

A A, &c., indicate the box or body of the churn; B, the cover; C, the dasher-shafts; and *c c c*, &c., the dashers or paddles. Of these dasher-shafts there are two, and the dashers or paddles of one of these shafts pass between those of the other in their revolution.

D is the drive-wheel or pulley, and has a flanged pinion, D', on its side, which gears into pinions F F, which are on short journals or shafts *ff*, which are closely boxed in the end piece of the box A. These journal-shafts *ff* bear on their inner ends a chuck, G, into which a gudgeon, *g*, in the end of the shaft C sits, and thus motion is given to the shaft C. I attach the shaft C to the shaft *f* by a chuck and gudgeon, as shown, so as to make it easily detachable. The arrangements at the other

end of the shaft for making it easily detachable are as follows: Two sleeves or boxes, I I, are provided, in each of which closely fits a pin, H, on the inner end of which is a pivot-point, *h*, and on the outer end a thumb-piece. The sleeve I is provided with a screw or helical slot, J, in which fits a lug, *j*, extending from the pin H. By turning the thumb-piece the pivot-point *h* can be advanced into or receded from a center hole in the end of the shaft. The action of the pin H is like a jam-nut or set-screw, only it is made to work quick on account of the pitch given the helical slot J. These parts, as well as the parts at the opposite end of the shaft, fit together so closely that no leakage of milk from the churn at that point will occur. By this construction the dashers C C can be quickly removed or replaced.

The drive-wheel D is on its outer side in the form of a disk, and thus protects the pinions behind it, and prevents injury being done by articles getting into the wheels.

What I claim as new is—

1. In a churn, the combination of the box A A, horizontal rotating dashers C C, with chucks G, and the sleeve I, with slot J, pin H, with lug *j*, and mechanism for rotating said dashers, substantially as herein set forth.

2. In combination with the removable shaft C, the chuck G and sleeve I, with slot J, and pin H, with lug *j*, said parts being arranged as and for the purposes set forth.

In testimony whereof I, the said WILLIAM SEACHRIST, have hereunto set my hand.

WILLIAM SEACHRIST.

Witnesses:

JNO. K. HALLOCK,
EDWIN A. SIMONDS.