

E. P. CONSER.
 Revolving Box-Churn and Device for Operating the
 Same.

No. 200,897.

Patented March 5, 1878.

Fig. 1.

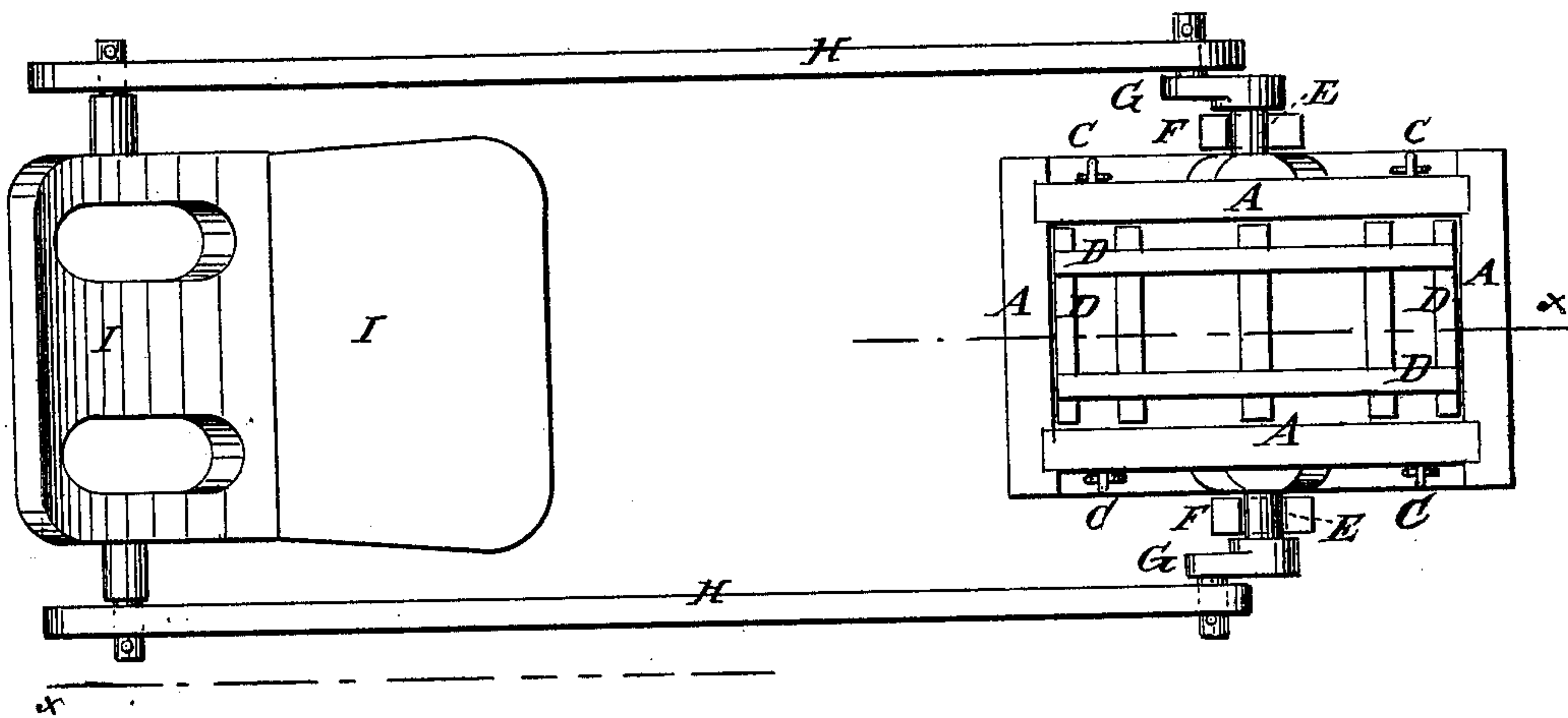


Fig. 3.

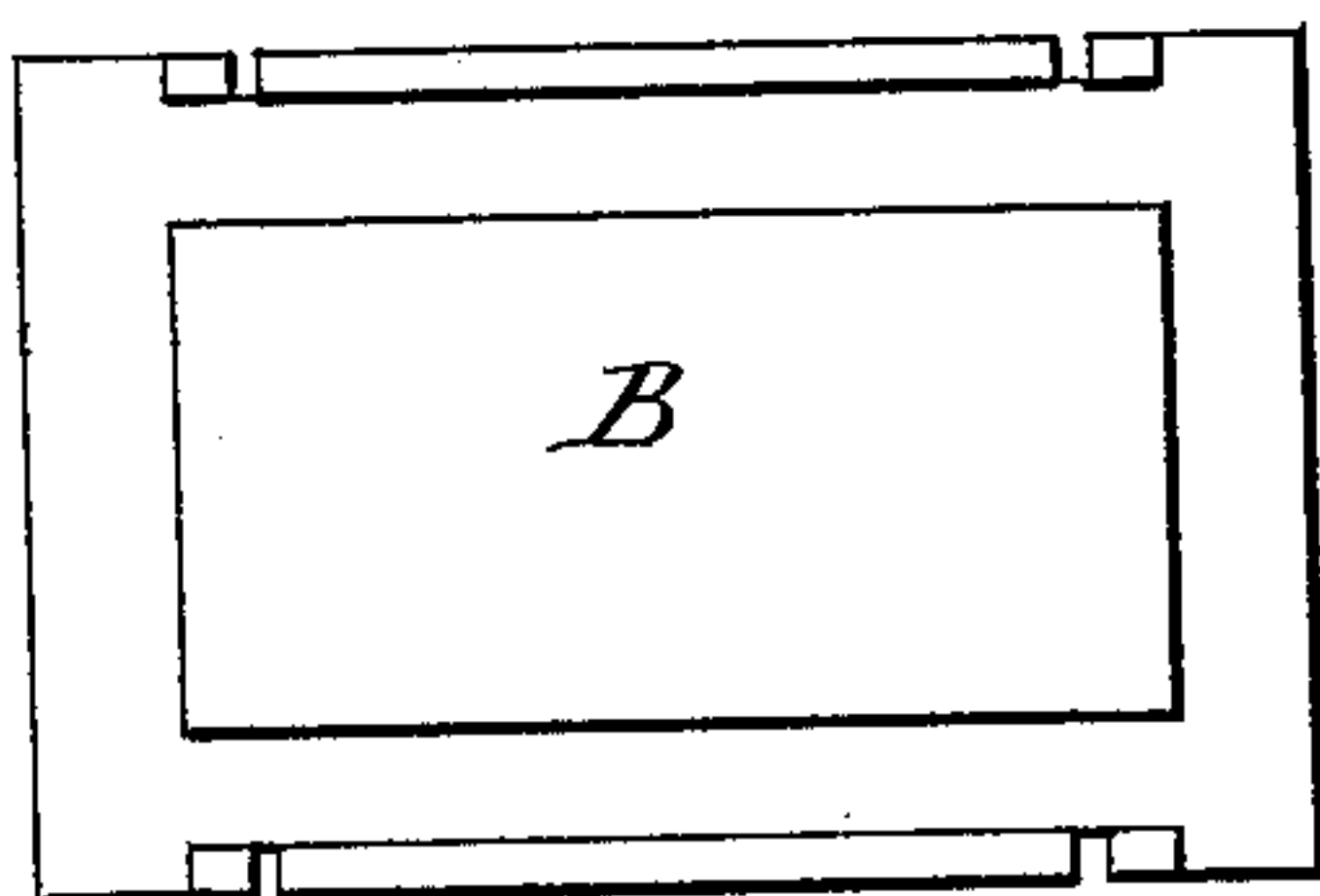
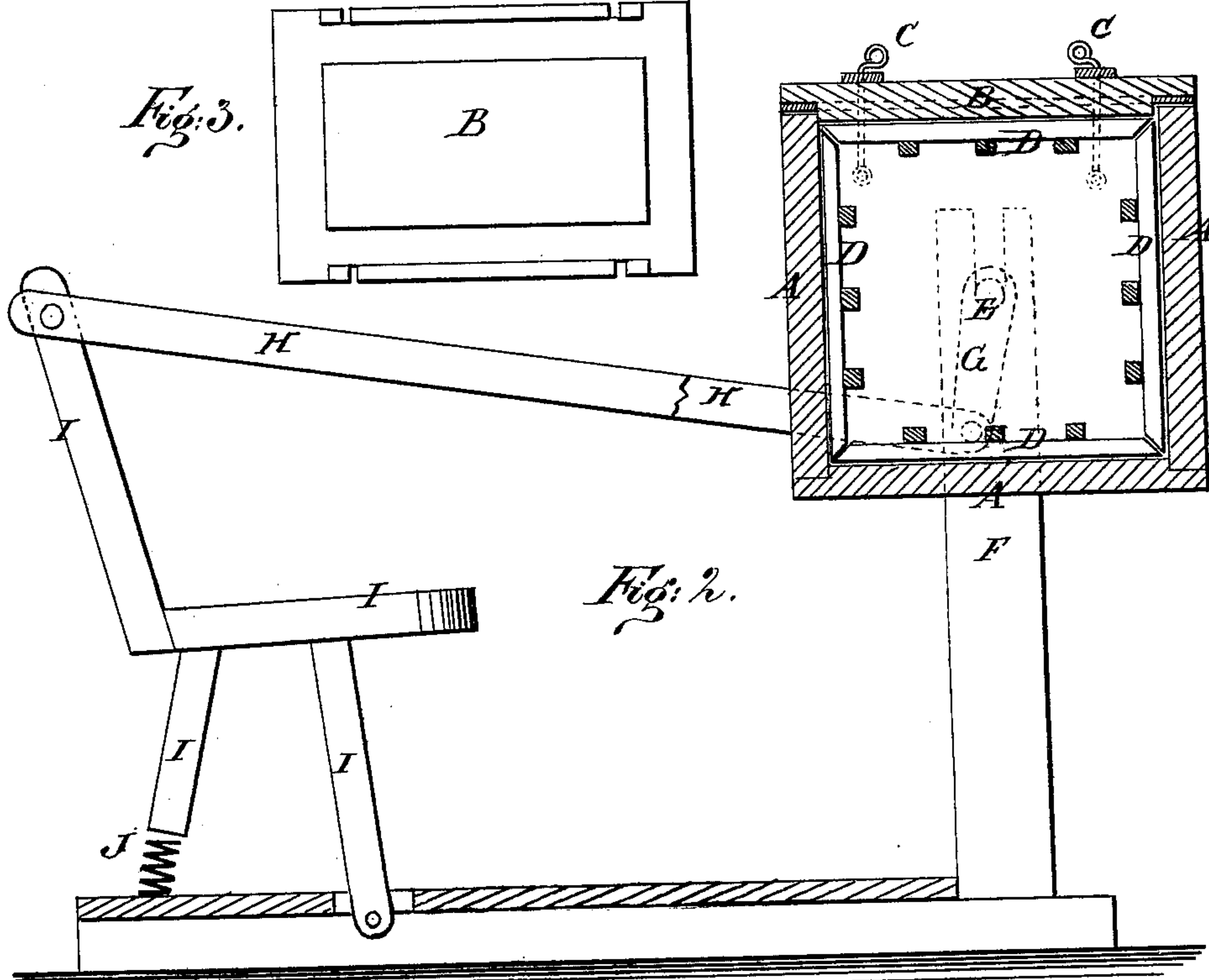


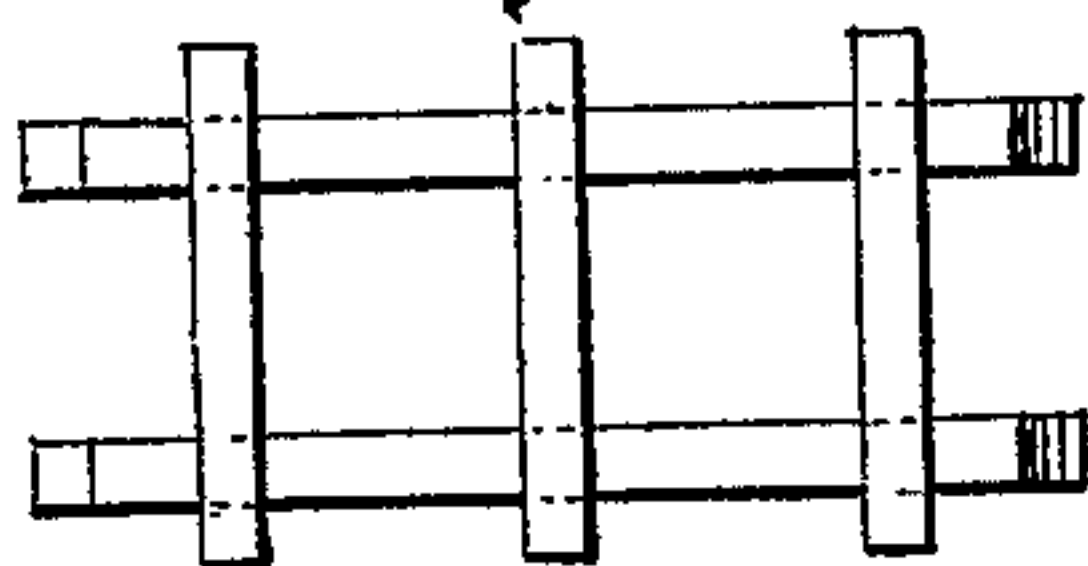
Fig. 2.



WITNESSES:

Cnas. Nida
Edgar Tate

Fig. 4.



INVENTOR:

E. P. Conser
 BY *Munn & Co*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ELI P. CONSER, OF MONTICELLO, IOWA.

IMPROVEMENT IN REVOLVING BOX-CHURNS AND DEVICES FOR OPERATING THE SAME.

Specification forming part of Letters Patent No. **200,897**, dated March 5, 1878; application filed November 27, 1877.

To all whom it may concern:

Be it known that I, ELI P. CONSER, of Monticello, in the county of Jones and State of Iowa, have invented a new and useful Improvement in Churning Apparatus, of which the following is a specification:

Figure 1 is a top view of my improved churning apparatus, the churn-cover being removed. Fig. 2 is a side view of the same, partly in section, through the line *x x*, Fig. 1. Fig. 3 is an under-side view of the cover. Fig. 4 is a detail view of one of the grates.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved churning apparatus which shall be so constructed that the person operating it can at the same time read, knit, hold a baby, &c., with entire ease, and which shall be simple in construction, inexpensive in manufacture, and effective in operation, bringing the butter in a very short time.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A represents the churn-body, which is made in the form of a short rectangular box. One side of the box is left open, and is closed with a cover, B, which is rabbeted upon the lower side of its edges, to fit upon the edges of the churn-body A, and said rabbets are provided with rubber packing *b'*, to form close joints.

The cover B is secured in place by rods C, attached to the sides of the box A, and which enter slots in the edges of the cover B, and hook upon cross-strips attached to said cover.

I prefer to make the rods C in the form of bolts with screw-threads and nuts upon their upper ends, to enable the cover B to be clamped more tightly, and to be held more securely in place.

D are grates, formed by attaching cross-strips to longitudinal strips, and which are

placed upon the inner surfaces of the three narrow sides and the cover of the churn. The ends of the longitudinal strips of the four grates D meet and are beveled off, as shown in Fig. 2, so that they may all be held in place by the cover B, and may be readily taken out when the said cover is removed.

To the centers of the two wider sides of the box A are attached pivots E, which work in bearings in posts or frames F, and to the ends of which are attached two parallel cranks, G. To the cranks G are pivoted the forward ends of the two connecting-rods H, the rear ends of which are pivoted to the upper parts of the side posts of the back of a chair, I. The front legs of the chair I are pivoted to the platform of the machine, or to the floor, and beneath the rear leg or legs are placed springs J, to prevent a jar when the chair swings back.

The springs J and the rear leg may be dispensed with entirely by placing the pivoted legs farther back; but I make no claim to this construction, as it is not in itself new.

The advantage of pivoting the chair on its front rather than the rear legs is that the weight is more readily shifted from one side to the other of the pivots.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The grates D, beveled on ends of the longitudinal strips, and held in place by the movable cover B, for the purpose set forth.

2. The combination, with the cranks of a drive-shaft, of a chair balanced upon its front legs, and having its rear supported on springs, and a pitman pivoted to said chair at the upper part of its back, as shown and described.

ELI P. CONSER.

Witnesses:

GEO. H. JACOBS,
MILO GUILD.