

(Model.)

2 Sheets—Sheet 1.

G. W. SNADON.

CHURN.

No. 375,430.

Patented Dec. 27, 1887.

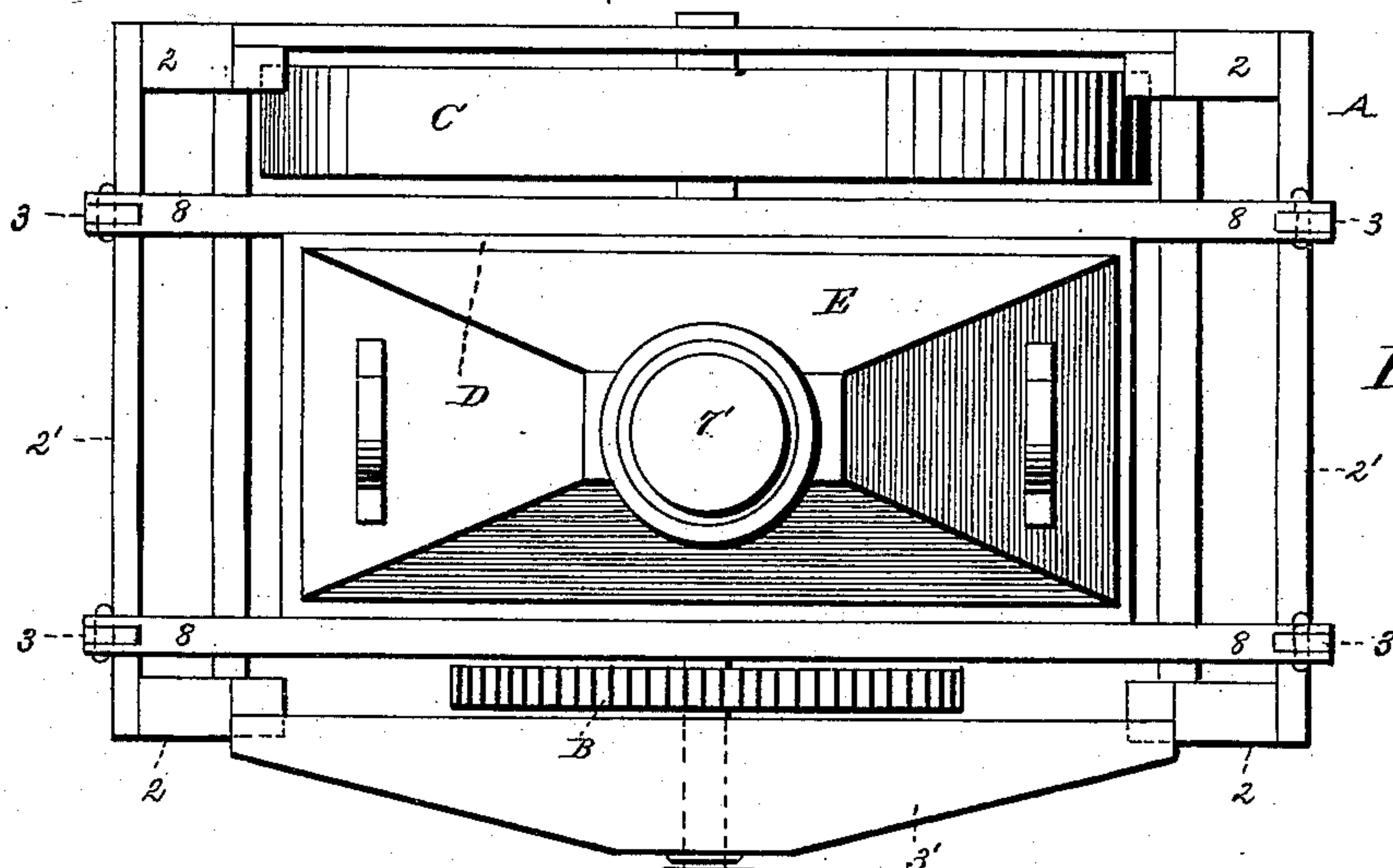


Fig. 1.

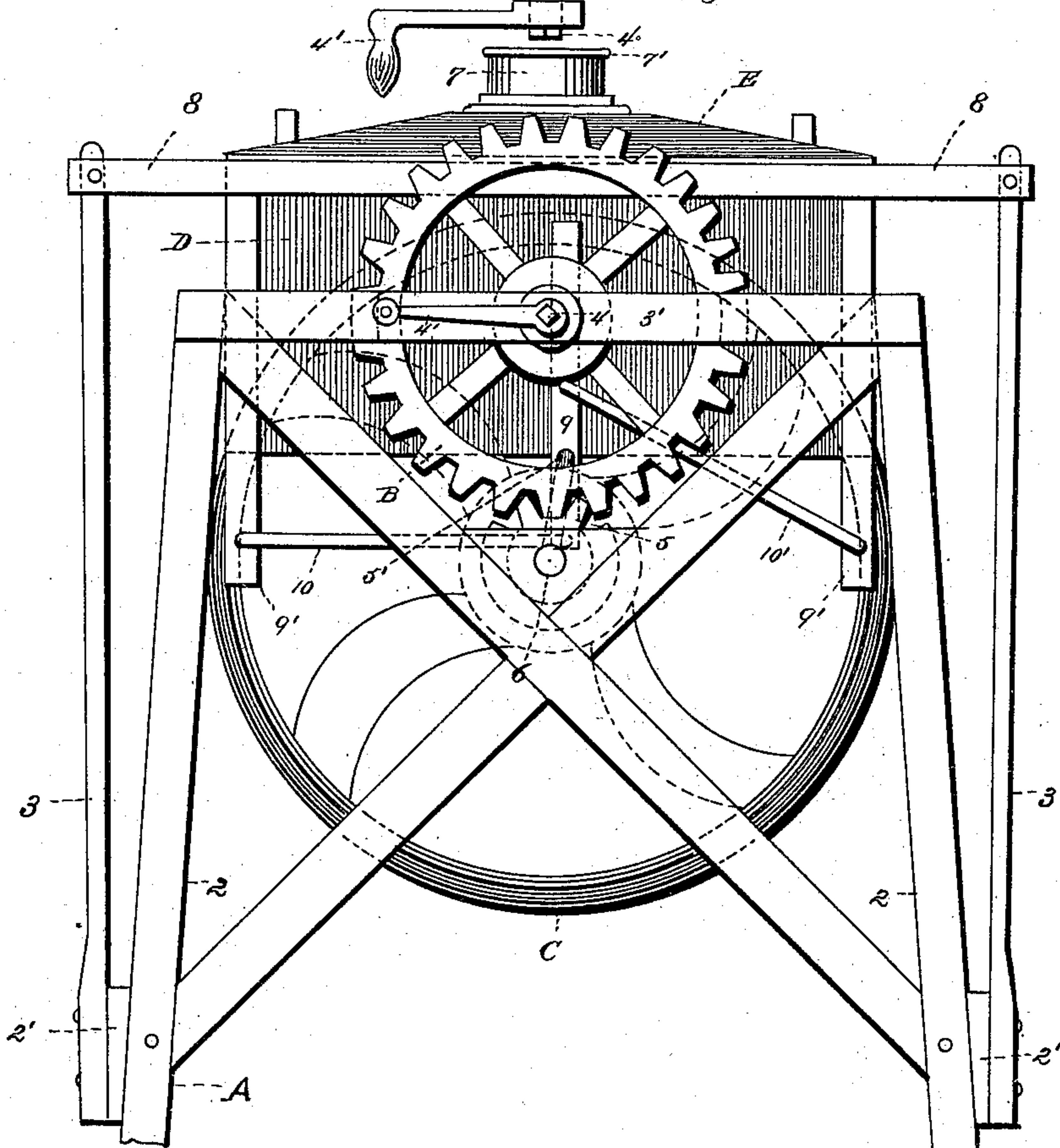


Fig. 2.

WITNESSES

*W. B. Harris.*  
*Theodore S. West*

INVENTOR

*George W. Snadon*  
*by C. R. Ferguson,*  
*Attorney*

(Model.)

2 Sheets—Sheet 2.

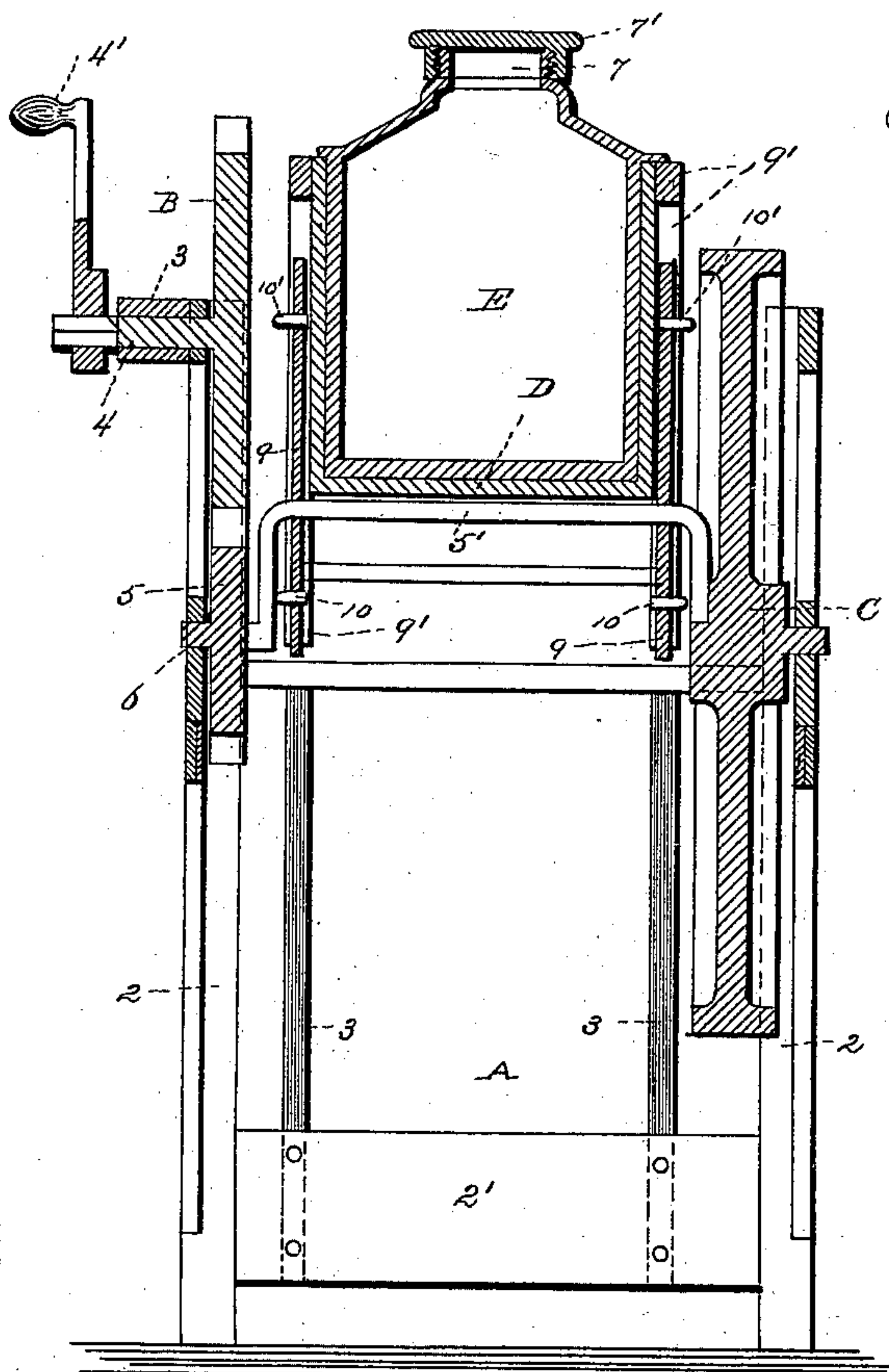
G. W. SNADON.

CHURN.

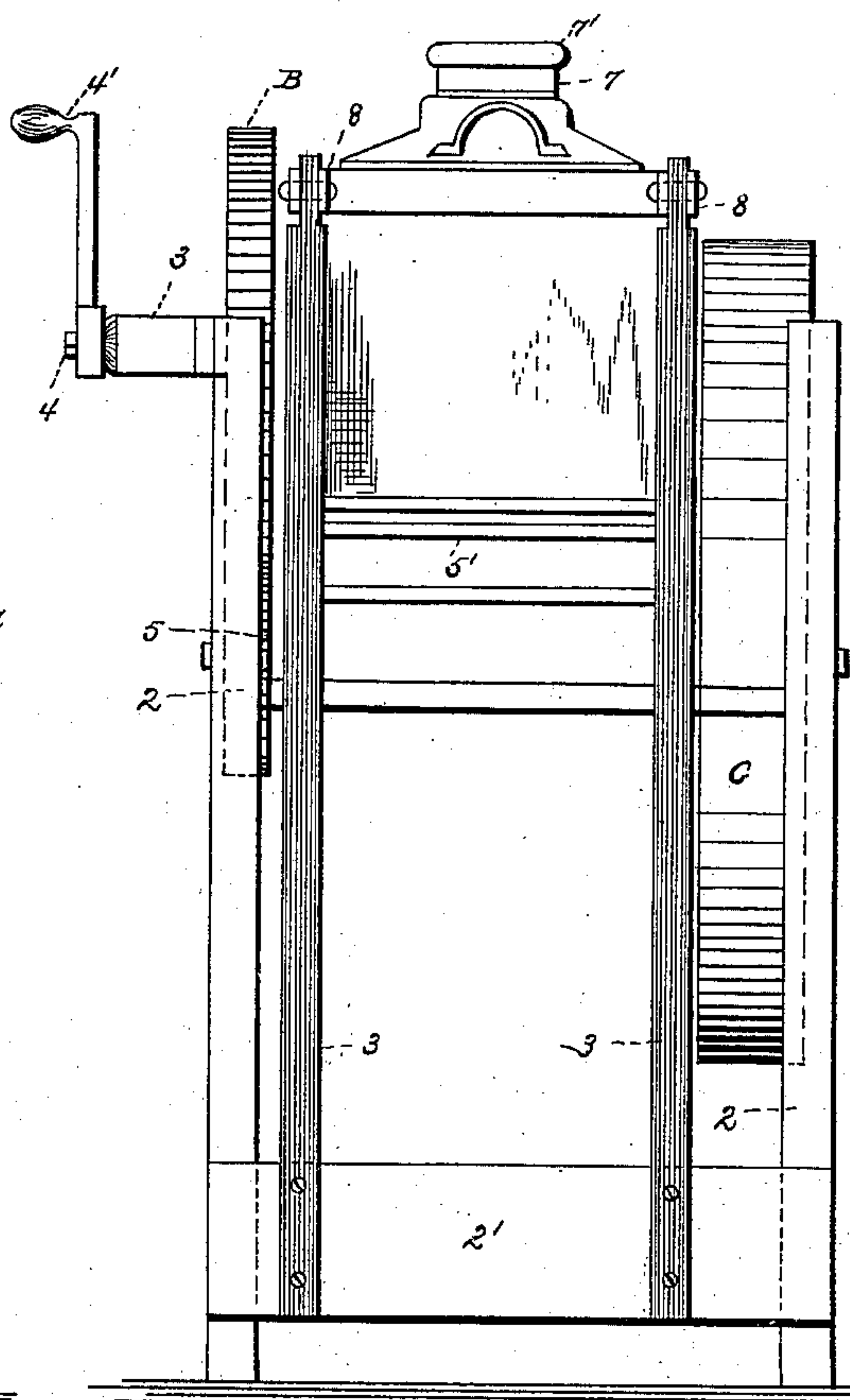
No. 375,430.

Patented Dec. 27, 1887.

*Fig. 3.*



*Fig. 4.*



WITNESSES  
*W. B. Harris*  
*Theodore S. West.*

INVENTOR  
*George W. Snadon*  
*by C. R. Furgerson*  
Attorney



# UNITED STATES PATENT OFFICE.

GEORGE W. SNADON, OF WATKINS, MISSOURI.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 375,430, dated December 27, 1887.

Application filed February 25, 1887. Serial No. 223,886. (Model.).

*To all whom it may concern:*

Be it known that I, GEORGE W. SNADON, a citizen of the United States, residing at Watkins, in the county of Dade and State of Missouri, have invented a new and useful Churn, of which the following is a specification.

My invention relates to improvements in churns, in which the cream-holder is reciprocated by mechanism hereinafter specified. The object of my improvement is to provide a churn of simple construction and of light running power.

Referring to the accompanying drawings, Figure 1 is a plan view of the churn. Fig. 2 is a side view. Fig. 3 is a vertical section, and Fig. 4 is an end view.

The frame portion A is composed of the legs 2, connected at the ends by cross-bars, the lower cross-bars, 2', being made of sufficient width to form rigid supports or fastenings for the spring-bars 3, rising vertically therefrom. Upon one side, at the upper ends, the legs 2 are connected with the cross-piece 3', which forms the bearing for the gear-wheel B and crank-journal 4.

B is a large gear-wheel connected by the journal 4 to the crank or handle 4', and meshes with the smaller gear-wheel, 5, journaled to the frame at 6.

C is a fly-wheel journaled within the frame portion opposite to the gear 5, and connected to said gear-wheel 5 by the crank-shaft 5'.

D is a rectangular box, closed at its ends, sides, and bottom, within which the cream-can E is placed. The cream-can E is of tin, or any suitable metal, provided at the top with the opening 7 and the screw or threaded covering 7', the opening 7 being large enough to admit the proper utensil for removing the butter after the churning. Handles are also provided for removing the cream-can. The upper frame of the box D projects outward from the four corners, as shown at 8, and is bifurcated at the

ends. Within the bifurcations are pivoted the upper ends of the spring-bars 3.

To the crank portion of the crank-shaft 5' vertical posts 9 are journaled, one end extending below the crank-shaft, and the upper end reaching above the shaft and alongside of the box D, and having the link-bars 10 10' pivoted thereto above and below the crank-shaft, the outer ends of said link-bars being pivoted to depending arms 9' of box D.

By means of the link-bars so placed the posts 9 are held in a vertical position on the crank-shaft, and upon operating the gear-wheels the proper vibratory motion is given to the churn-box, and the spring-bars operating in connection therewith serve to hold the cream-box in a horizontal position, and to materially aid the same in its vibratory motion, and to relieve the operator from extra work.

The cream-can E is removable, and there may be two or more of them fitted to the box for the convenience of large dairies.

Having described my invention, I claim—

In a churn, the combination of the frame A, the rectangular box D, having the lateral projections 8, the cream-can E, having the threaded cover, the spring-bars 3, pivoted to the projections 8 and rigidly secured at their lower ends to the cross-bars 2' of the frame, the shaft 5', having the crank portion, and having the vertical posts 9, journaled thereon, the link-bars 10, pivoted below the crank-shaft, the link-bars 10', pivoted above said crank-shaft, the said link-bars being pivoted to the vertical posts 9, and to the depending arms 9' of the box D, the gear-wheels B and 5, and the fly-wheel, all constructed as and for the purpose specified.

GEORGE W. SNADON.

Witnesses:

DE WITT C. TURNER,  
F. H. HOLLAND.