(No Model.)

F. B. FULLER.

CURD CUTTER.

No. 596,400. Patented Dec. 28, 1897.

Fig. 1.

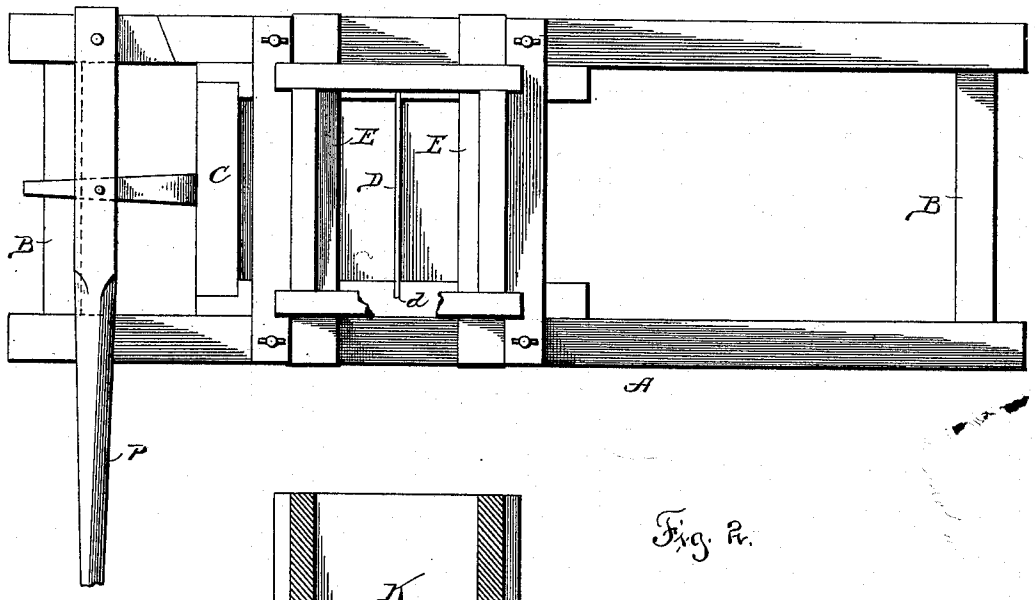
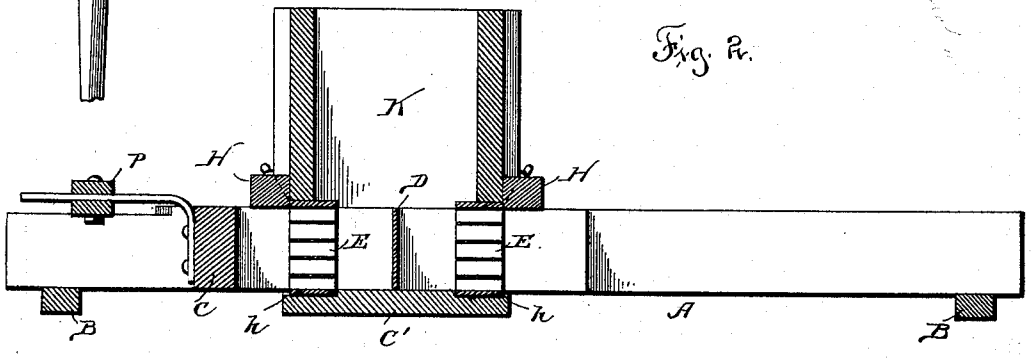


Fig. 2.



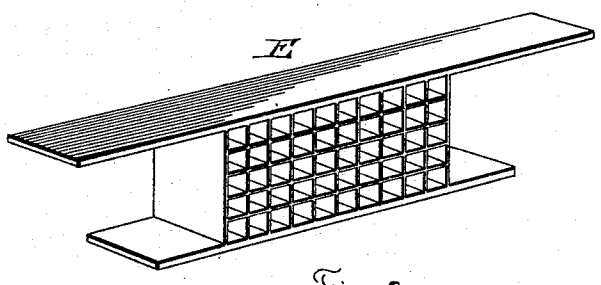


Fig. 3.

Witnesses
John Enders Jr.
Philip L. Masi.

Inventor
Fred B. Fuller
by E. W. Anderson
his Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRED B. FULLER, OF GOUVERNEUR, NEW YORK.

CURD-CUTTER.

SPECIFICATION forming part of Letters Patent No. 596,400, dated December 28, 1897.

Application filed May 28, 1897. Serial No. 638,621. (No model.)

To all whom it may concern:

Be it known that I, FRED B. FULLER, a citizen of the United States, and a resident of Gouverneur, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Curd-Cutters; 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 letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a top plan view of the invention. Fig. 2 is a vertical longitudinal section of the same, and Fig. 3 is a detail view in perspective of one of the cutters.

This invention has relation to curd-cutting machines, and is designed to provide a machine of this class which is simple in its construction and operation, whose working parts, including the cutters, are readily removable for the purpose of cleaning, &c., the knives also being reversible, which has a double action or cut, thereby doubling its capacity, and which possesses other features of advantage to be hereinafter pointed out.

With these objects in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A designates the base or bed of the machine, which in the construction shown consists of two parallel sills supported upon and secured to cross-pieces B.

C designates a frame which is fitted to reciprocate between the said sills upon a floor or platform C'. D is a transverse plate or partition which extends across the said frame and which is made removable, its ends sliding in vertical gains or grooves *d*, which are cut in the lateral inner faces of the frame.

E E designate two similar cutters, which consist each of a central cellular portion of considerable thickness which fits within the slide-frame and open end portions, which embrace the lateral portions of said frame and also the sills of the frame A. The central cellular portions are formed in a plate or block by a plurality of openings arranged in vertical and horizontal lines, and whose thin division-walls have cutting edges at both sides of the plate, so that the cutters may be reversed and used either side to. These cutters are placed at the opposite ends of the platform or floor C' and are held against movement toward each other by means of rabbets *h* in said floor or platform, into which they fit. They are held against movement in the opposite direction by means of cross-pieces H, which are removably secured to the sides A.

K designates the curd-box, which is open at its top and bottom and which is placed over the space between the two cutters, being removably supported upon or between the cross-pieces H.

P designates a lever by means of which the frame C may be reciprocated, although said frame is designed to be actuated by any suitable known mechanical means.

The curd being fed from the box K is forced against and through the respective cutters as the slide-frame is reciprocated by means of the transverse plate or partition D, which acts as a plunger. It will be readily seen that the machine will operate in this manner to rapidly and thoroughly cut or break the curd.

To remove the knives, the curd-box and the cross-pieces H are removed. The cutters may then be slid endwise along and off the sills, thereby permitting them to be easily and thoroughly cleaned, which is an important consideration. The plate D is also removable for cleaning, as above stated. When the cutters become dulled, they may be reversed and their opposite sides brought into use, thereby greatly increasing their life.

I do not wish to limit myself to the details of construction which I have herein shown and described, since it is obvious that these may be varied without departing from the spirit and scope of my invention, the essential features of which are clearly pointed out in the appended claims.

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

1. In a curd-cutting machine, the combination with a suitable base or support, and two stationary curd-cutters held therein and having sharp cutting edges, of a slide fitted

to reciprocate in or upon said base or support and adapted to carry the curd fed thereto against the said cutters, together with means whereby said slide may be rapidly reciprocated, substantially as specified.

2. In a curd-cutting machine, the combination with a suitable base or support, and two stationary but removable and reversible curd-cutters held therein and having sharp cutting edges, of a slide fitted to reciprocate in or upon said base or support, and means for reciprocating said slide, substantially as specified.

3. In a curd-cutting machine, the combination with a suitable base or support, and two stationary curd-cutters held therein and having sharp cutting edges, of a bottomless slide-frame fitted to reciprocate in or upon said base or support and carrying a plunger which works between the two cutters and forces the curd against them alternately as the slide is reciprocated, together with means for reciprocating said slide, substantially as specified.

4. In a curd-cutting machine, the combination with a base or support having two parallel sills and a floor or platform, of the two parallel transverse curd-cutters held at opposite ends of the said platform and having sharp cutting edges, and having open end portions which engage the said sills, means for temporarily securing said cutters in fixed positions, a bottomless slide fitted to reciprocate between said sills, and a transverse plate or plunger carried by said slide and working between the said cutters, substantially as specified.

5. In a curd-cutting machine, the combination with a base or support having two parallel sills and a floor or platform, of the two parallel transverse curd-cutters secured at opposite ends of the said platform, and consisting each of a central portion having a plurality of openings therethrough whose division-walls have cutting edges, and end portions adapted to embrace said sills, means for temporarily securing said cutters in fixed positions, a bottomless slide fitted to reciprocate between the said sills, a transverse plate or plunger carried by the said slide and working between the two cutters, and a curd-box supported over said floor or platform, substantially as specified.

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

FRED B. FULLER.

Witnesses:
W. E. COOK,
W. L. CONGER.