

(No Model.)

C. BERST.  
CHURN DASHER.

No. 362,416.

Patented May 3, 1887.

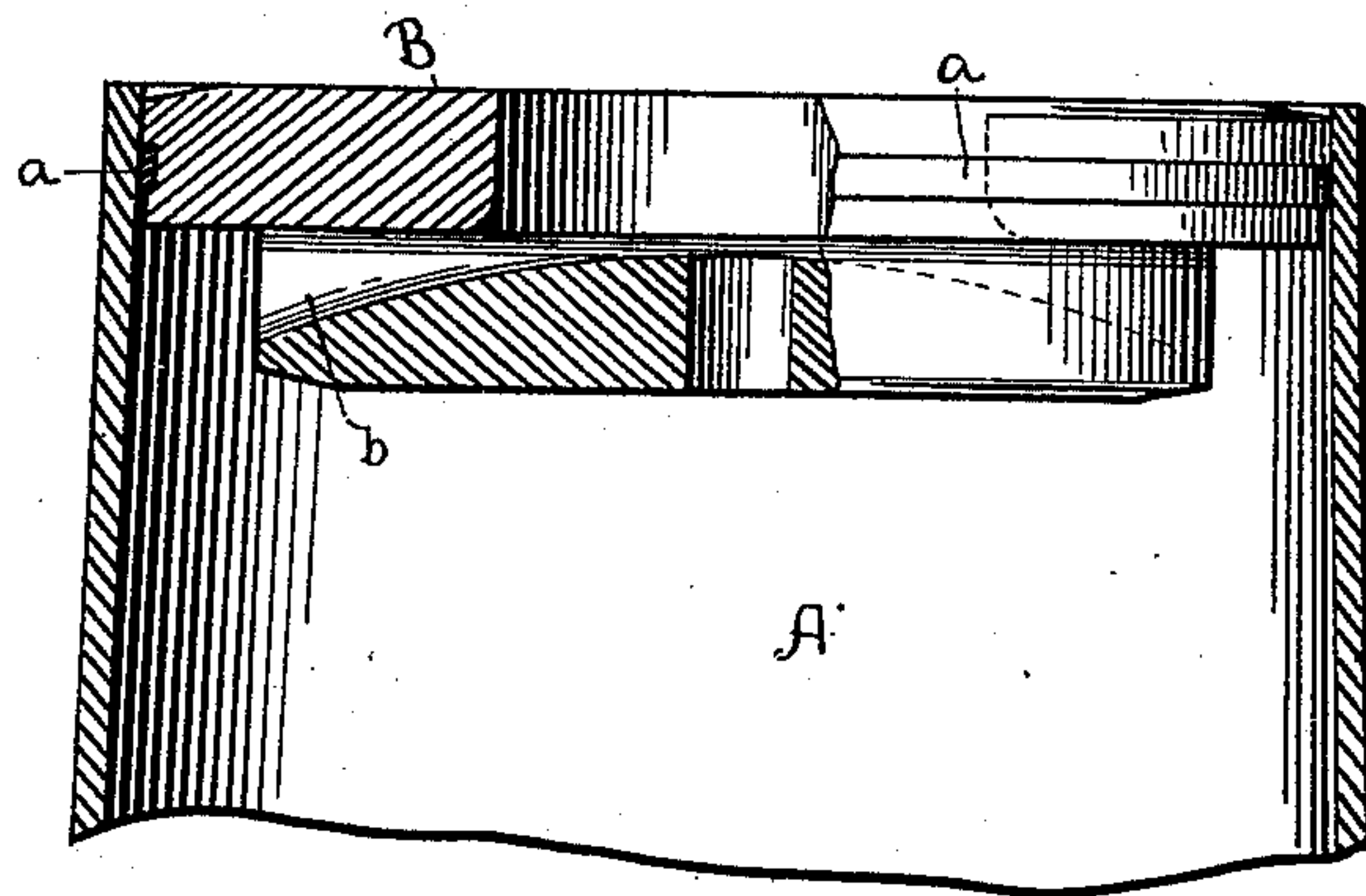


Fig. 1.

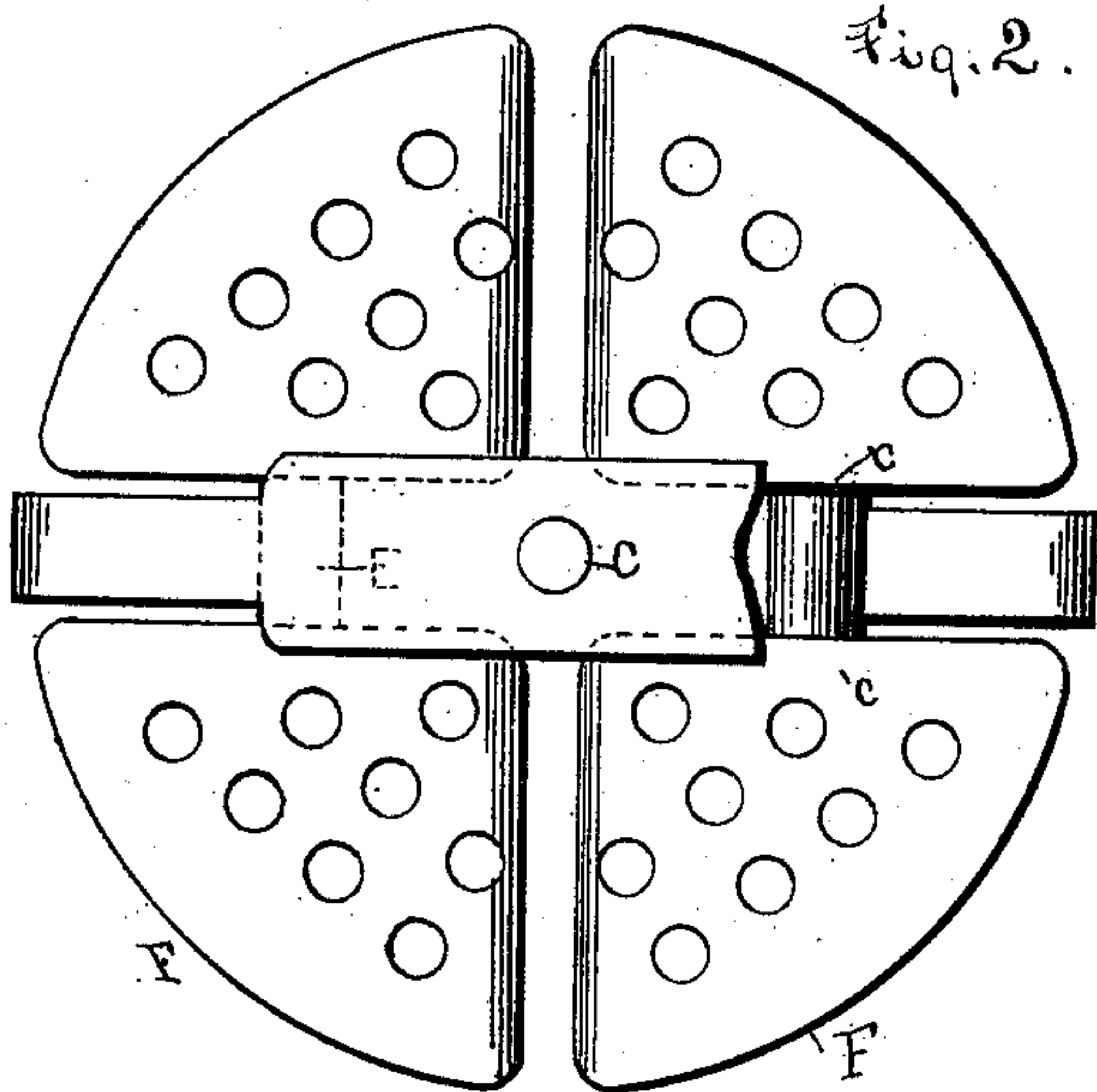


Fig. 2.

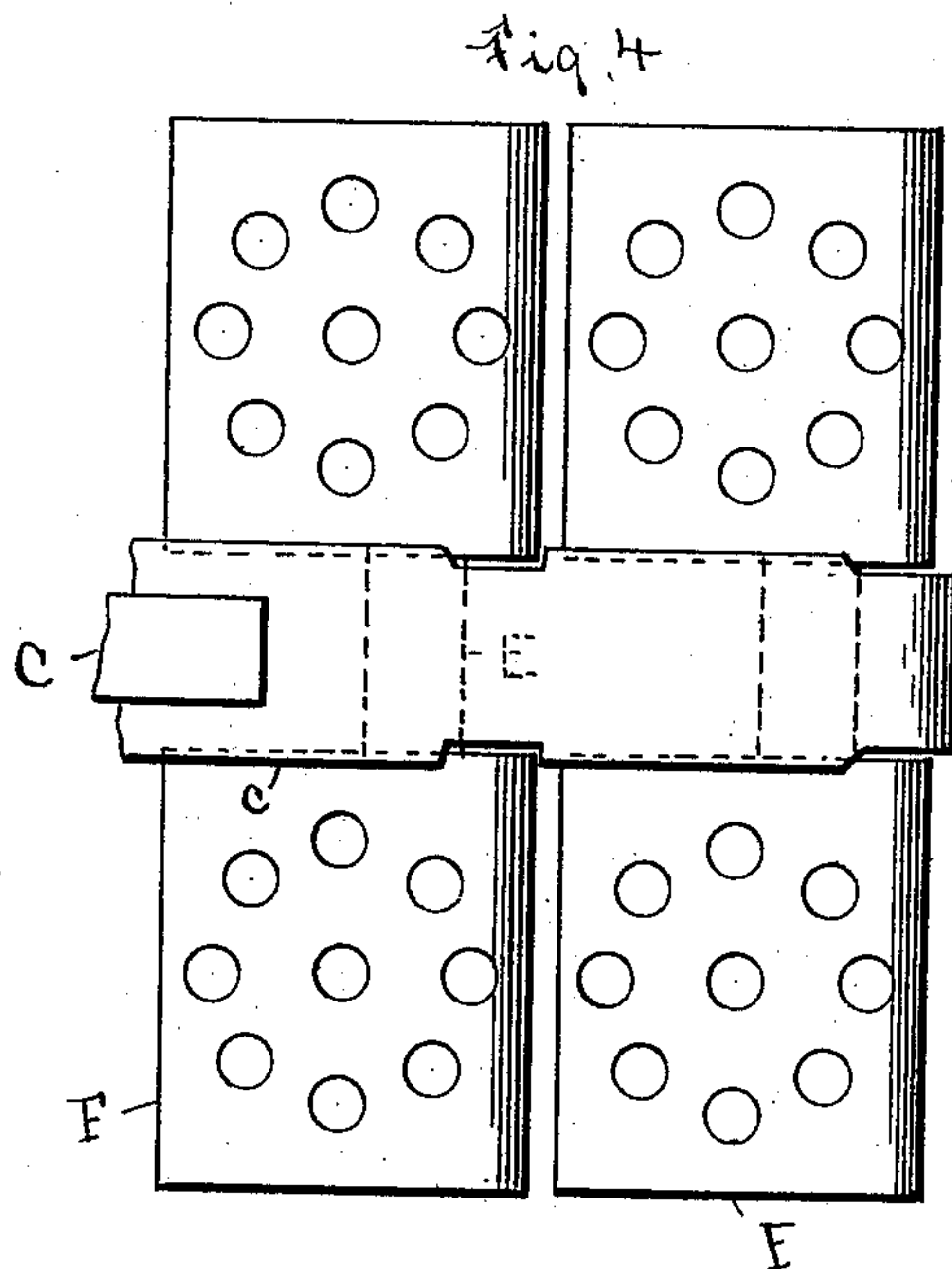


Fig. 4.

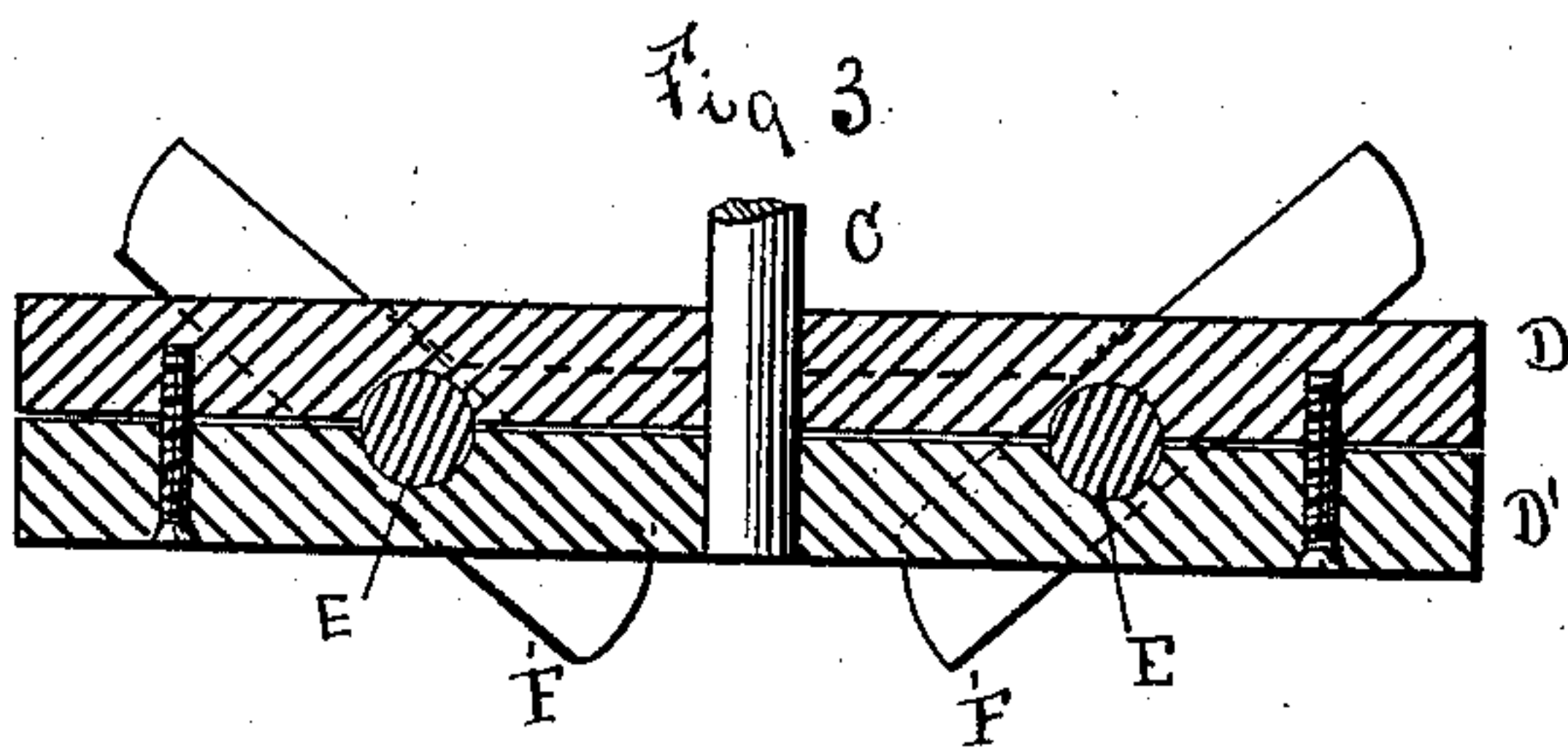


Fig. 3.

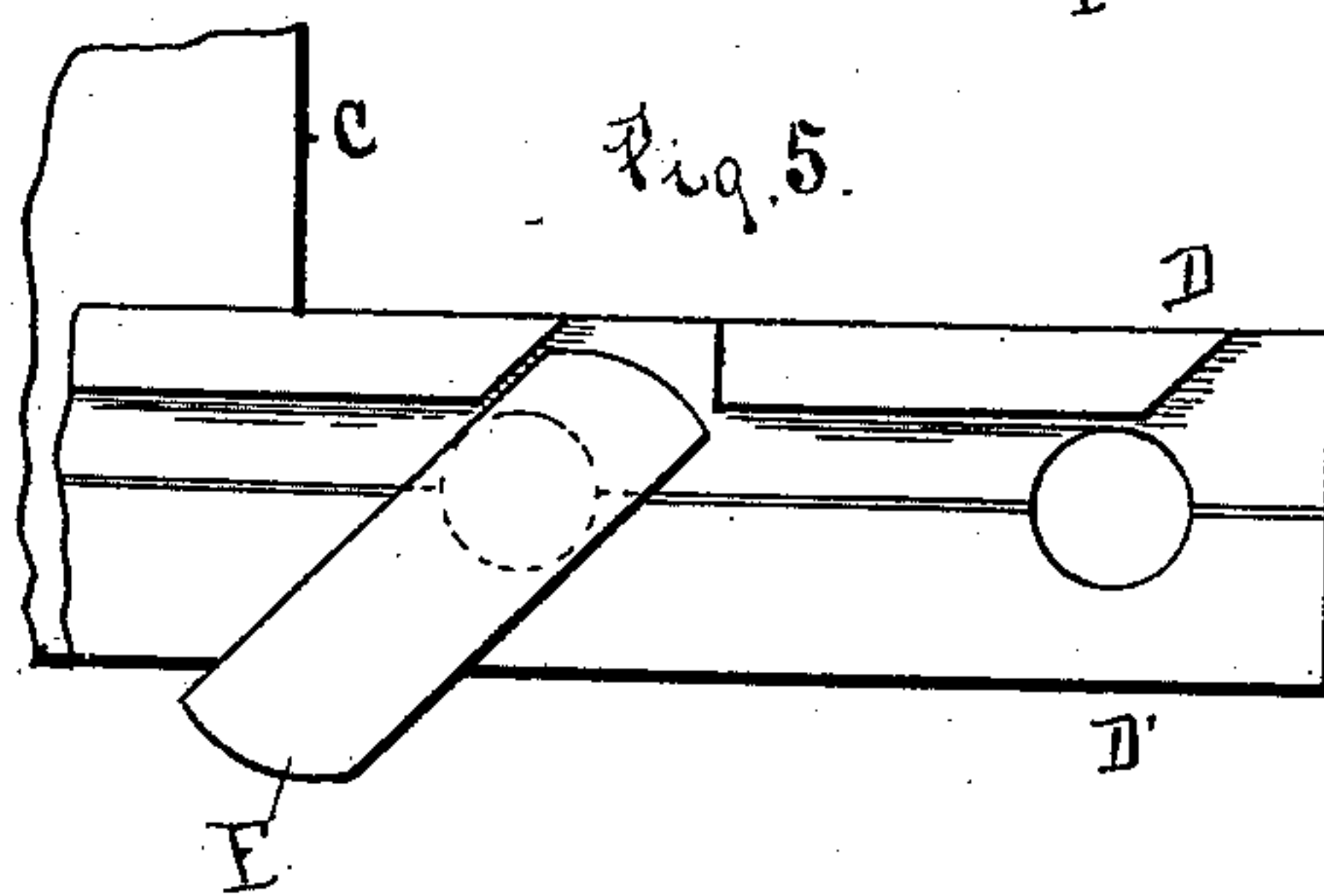


Fig. 5.

Witnesses.

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*My dearest*

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# UNITED STATES PATENT OFFICE.

CONRAD BERST, OF KANSAS CITY, MISSOURI.

## CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 362,416, dated May 3, 1887.

Application filed January 6, 1887. Serial No. 223,584. (No model.)

*To all whom it may concern:*

Be it known that I, CONRAD BERST, a citizen of the United States, residing at Kansas City, in the county of Jackson, State of Missouri, have invented certain new and useful Improvements in Churn-Dashers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain improvements in churns, especially to the arrangement and construction of the dashers of the same.

The object of the invention is to provide a dasher for churns which will render the churning easy.

To the accomplishment of the above the invention consists of certain novel devices and combination of devices, as will be fully described hereinafter, and also specifically claimed.

Reference will be made to the drawings, in which Figure 1 is a sectional detail of the churn, showing its cover or lid in position; Fig. 2, a top plan of one style of dashers; Fig. 3, a sectional view of Fig. 2; Fig. 4, a similar view of a portion of a modified form of dasher; Fig. 5, a side elevation of the parts shown in Fig. 4.

Like letters refer to like parts in each view.

A represents the churn, (shown broken away in Fig. 1,) and B the top or lid for the same. This lid or top consists of two pieces, one of which in circumference is slightly smaller than the interior of the churn proper. Around the circumference of the upper part of the lid, and fitted into a suitable groove or depression, is a rubber washer, *a*, the same being adapted to press against the interior of the churn and render the joint thus formed perfectly airtight. Upon the lower face of the lid above described there is formed a downwardly-projecting portion, which may be formed with the main portion or secured thereto. The lower face of that part first described and the upper face of the last-described part are grooved or cut away sufficiently to form a passage, *b*, which forms communication between the interior of the churn and the outer air, ventilation being thus provided for. A suitable central opening is formed through

that portion of the lid heretofore referred to as the lower portion, and through such opening the plunger-rod C is passed. The lid or cover shown in Fig. 1 and above described I do not claim in connection with my improved dasher, as I am aware that it is old, but desire to use such a cover, as set forth and shown, with my churn, whereby communication is formed with the air and the interior of a churn for the purposes of ventilation. Upon the lower end of said rod the dashers of the churn are secured, said rod being passed through and securely attached to the two pieces D D', said pieces being securely held together by suitable screws or bolts. At suitable points these pieces D D' are cut away to form bearings for the shafts E, now to be described. The dashers F are cut away centrally to form the shafts E, and are integral therewith. The piece D has flanges *c* upon its upper face to limit the movement of the dashers.

It will be understood from the drawings that as the plunger-rod is forced down it carries the dashers. Said dashers, by coming in contact with the contents of the churn, are forced to occupy a horizontal position, the contents of the churn passing through openings with which they are provided; and it will also be understood that as the dashers are raised they will be forced into an inclined position, or a position oblique to the sides of the churn, thereby rendering the raising of said dashers easy.

It will be understood that I have shown in the drawings two styles of dashers which are arranged and operated in the same manner, in one of which two sets or four of such dashers are used, while in the other either the same number or four sets and eight dashers may be used, as it may be found desirable at times to make my churn-dasher either of a circular or rectangular shape.

I am aware that an ordinary churn-cover has been provided with a disk having inclined channel or groove, which permits the cream carried up by the dasher-rod to descend again into the churn, and also horizontally-pivoted dashers which are forced to assume a vertical position by the upward and downward move-

ment of the dash-rod; and therefore I do not broadly claim these elements, but only those hereinafter more particularly set forth.

What I claim is—

- 5 The churn-dasher described and shown, consisting of the rod C, upper and lower detachably-connected cross-pieces, D D', provided with horizontal semicircular registering openings, the upper piece having laterally-project-

ing stops, and the dashers F, cut away centrally to form shafts which rest in the openings in the cross-pieces, as set forth.

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

CONRAD BERST.

Witnesses:

C. J. STEIN,

CHAS. H. STOLTE.