

C. GILBERT.

Apparatus for the Manufacture of Starch.

No. 137,911.

Patented April 15, 1873.

Fig. I.

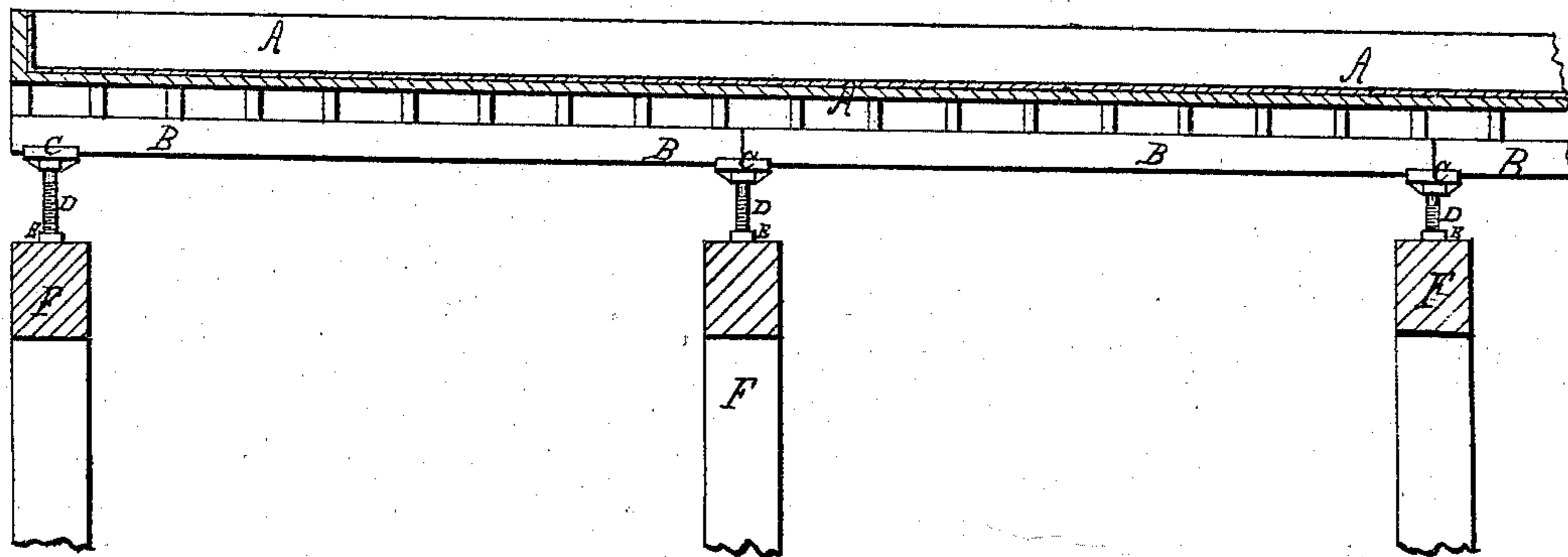


Fig. II.

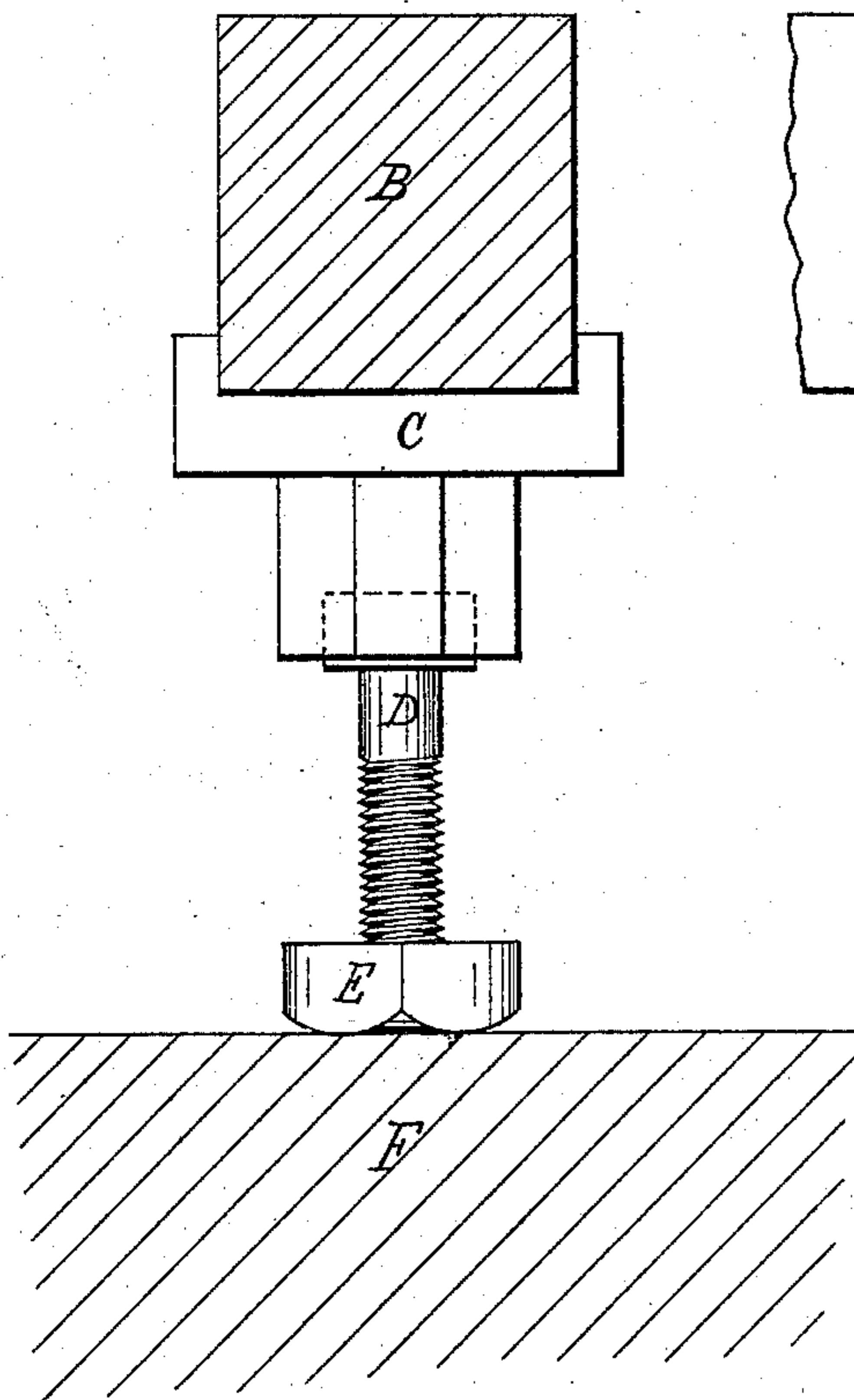
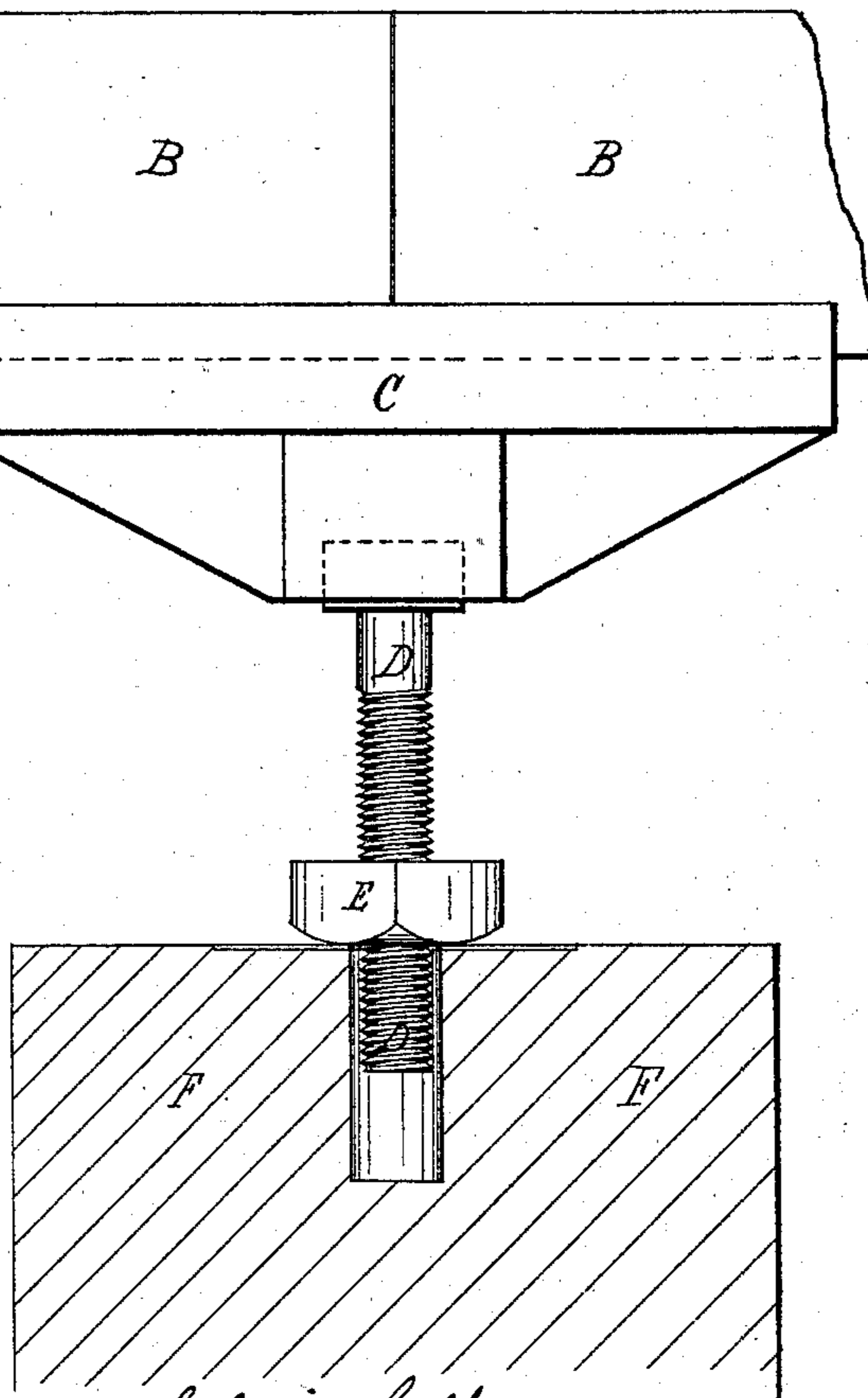


Fig. III.



WITNESSES.

J. R. Drake
C. N. Woodward.

Colgate Gilbert.

INVENTOR, BY
Burke Faser & Co
Attys

UNITED STATES PATENT OFFICE.

COLGATE GILBERT, OF BUFFALO, NEW YORK.

IMPROVEMENT IN APPARATUS FOR THE MANUFACTURE OF STARCH.

Specification forming part of Letters Patent No. **137,911**, dated April 15, 1873; application filed November 25, 1872.

To all whom it may concern:

Be it known that I, COLGATE GILBERT, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Starch Tables or Separators, of which the following is a specification:

Nature and Object of the Invention.

The tables or separators in starch-mills for the flow of the liquid are usually constructed of wood, and extend often two hundred feet or more in length. Being so long they are apt to sag, bend, or break; and the object of this invention is to provide a series of adjustable supports to the bottom, so that these tables may always stand level or even to insure a clear and uninterrupted flow of the liquid, as hereinafter described.

In the drawing, Figure 1 is a side elevation, showing the adjustable supports in position under the table. Fig. 2 is an enlarged side elevation of the support. Fig. 3 is an enlarged end view of the same.

A represents the table; B, the bottom joist, the two ends meeting and resting or setting in the support C. This support is formed of a single piece of cast metal, the upper part having a rim on two sides to prevent the joist slipping sidewise; the lower part formed into a square receptacle with lateral supports at each end. In this square part sits a square-headed independent screw, D, having an adjusting-nut, E. The other end of the screw

sets into a hole in the supporting timbers or frame F, the nut E working on top of the timbers F.

To raise or lower the table, or to adjust or level the bed, the nut E is turned as little or as much as may be required, and a series of these are placed at proper intervals under the tables, and act as supports as well as levelers or adjusters.

It is very important that these long tables should have an even bottom, otherwise the liquid moves irregularly; and when the table sags it will settle, preventing the necessary uniform movement of the liquid.

My device entirely overcomes this great difficulty, hitherto irreparable, from the necessary great length of the tables used, usually having to be wedged and keyed, which is a laborious and imperfect operation.

Claim.

I claim—

In a starch-mill table or separator, the adjustable support C with the screw D and nut E, in combination with the timbers F or their equivalent, as and for the purpose hereinbefore fully set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

COLGATE GILBERT.

Witnesses:

J. R. DRAKE,
C. N. WOODWARD.