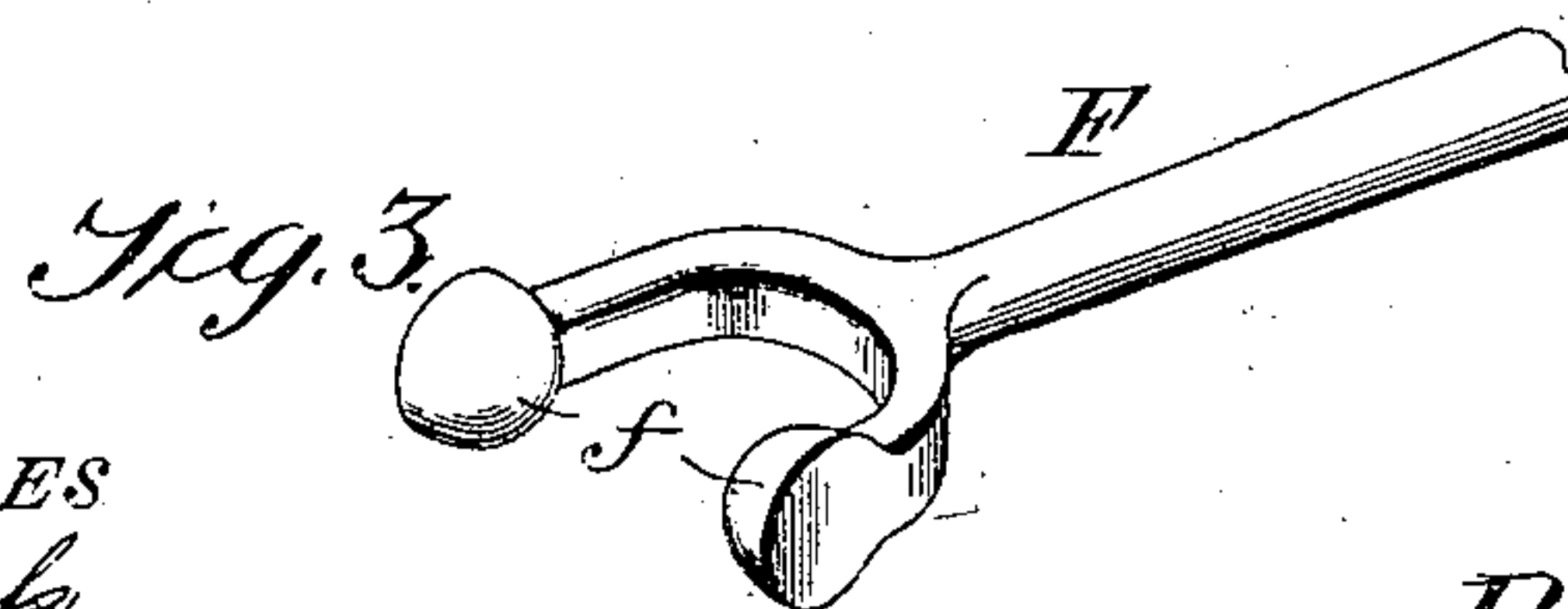
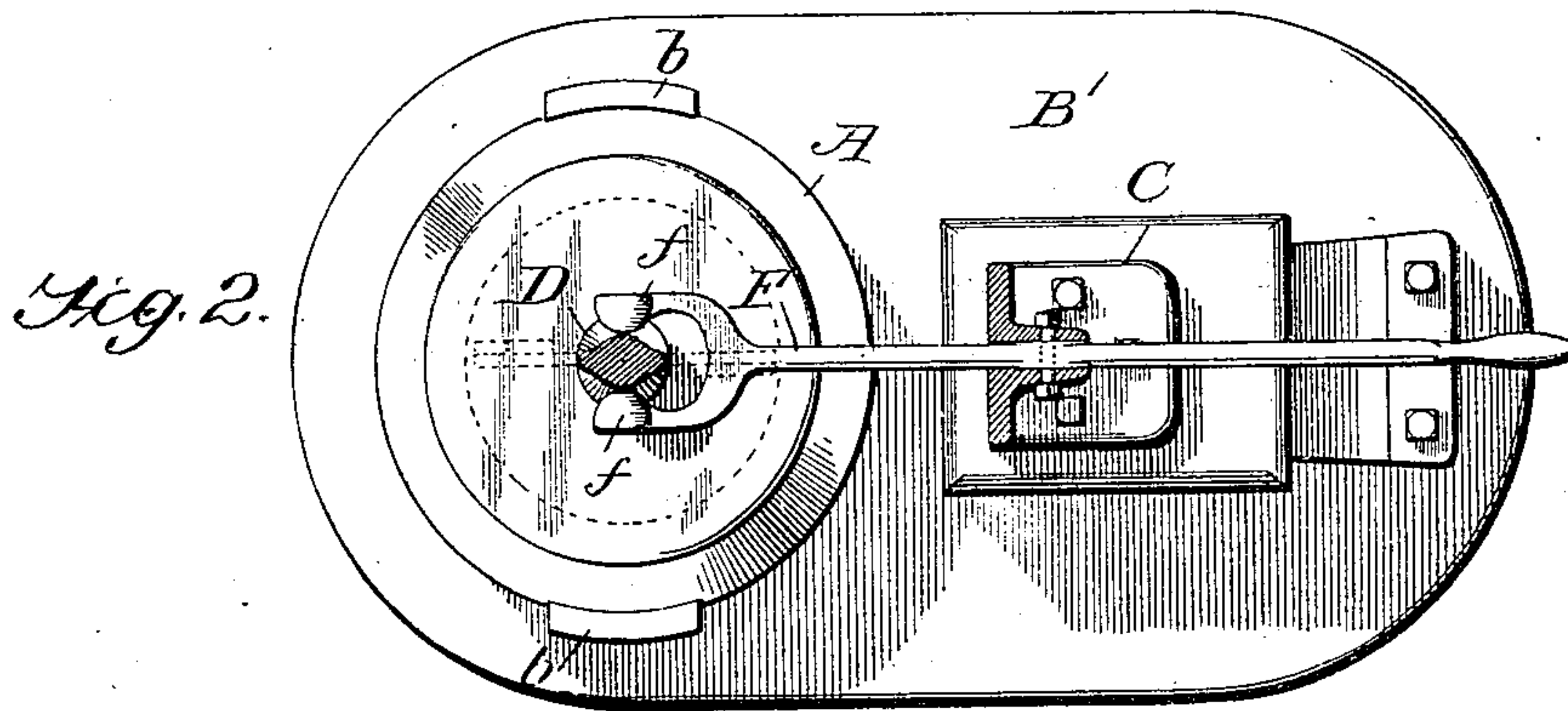
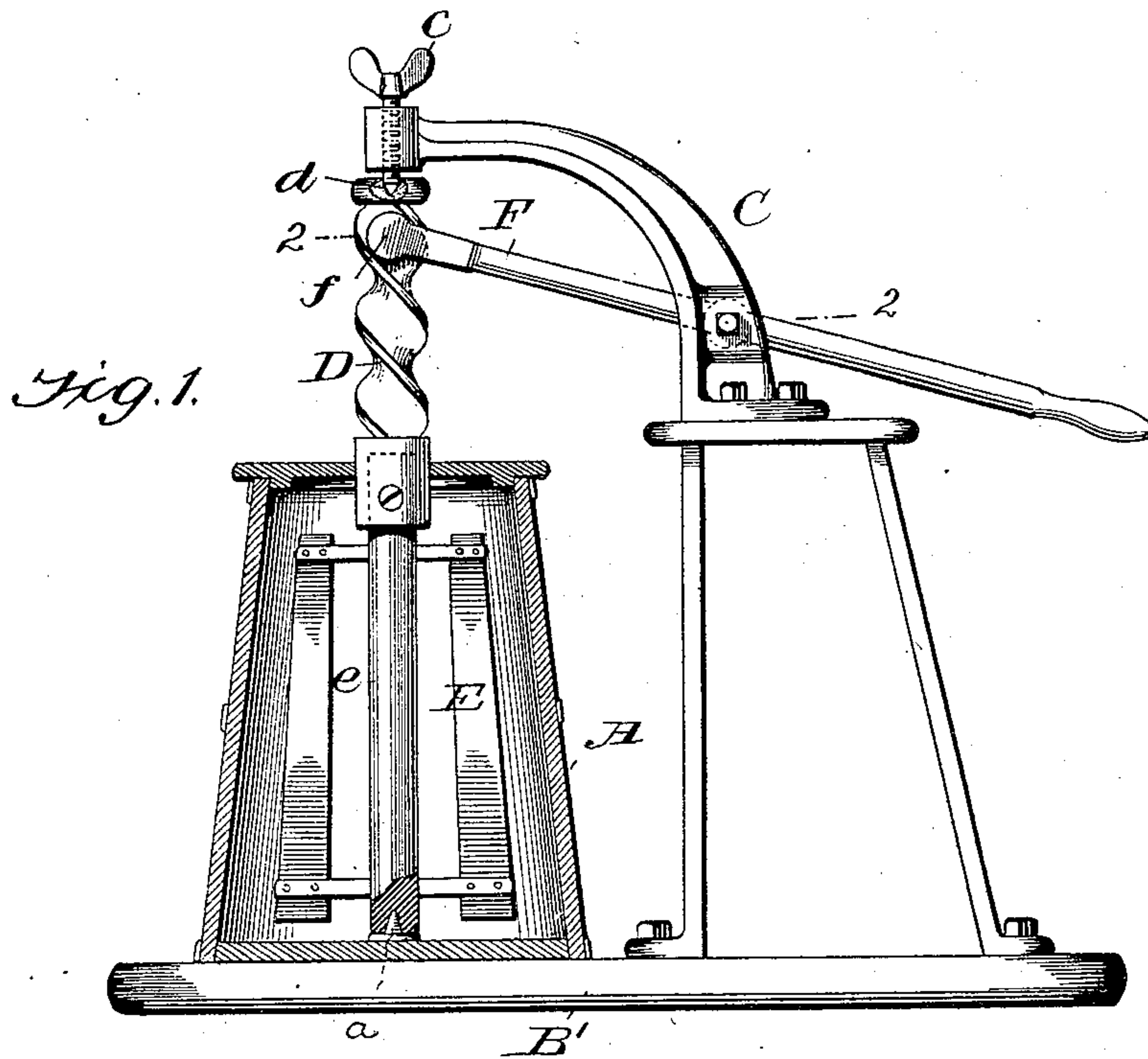


(No Model.)

P. CATINNA.
CHURN.

No. 565,330.

Patented Aug. 4, 1896.



WITNESSES
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UNITED STATES PATENT OFFICE.

PETER CATINNA, OF COLUMBIA, TENNESSEE.

CHURN.

SPECIFICATION forming part of Letters Patent No. 565,330, dated August 4, 1896.

Application filed April 25, 1896. Serial No. 589,076. (No model.)

To all whom it may concern:

Be it known that I, PETER CATINNA, of Columbia, in the county of Maury and State of Tennessee, have invented certain new and
5 useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked
10 thereon, which form part of this specification.

This invention is an improvement in churns, and its object is to provide an improved and simple mechanism for converting the vibratory movement of a lever into a rotatory motion of the churn-dasher.
15

The invention consists in the novel construction and combination of parts herein described and claimed, and as illustrated in the accompanying drawings, in which—
20

Figure 1 is a side elevation of the churn complete, the churn-body being shown in vertical section. Fig. 2 is a transverse section on line 2 2, Fig. 1, looking down. Fig. 3 is a detached perspective view of the bifurcated
25 end of the vibrating lever.

A designates the churn-body, of ordinary contour, having a central stud *a* in its bottom. When in use, the churn-body is placed on one end of a base *B'*, which has lugs *b b*
30 to retain the churn-body in position, and on the base beside the churn-body is a casting *C*, which curves up and over the churn-body and has an adjustable thumb-bolt *c* in its upper end, directly over the churn, adapted
35 to engage a socket *d* in the upper end of an auger-twist casting *D*, which has a socket in its lower end in which is secured the upper end of the shaft *e* of the churn-dasher *E*, which is of any suitable construction, the
40 lower end of shaft *e* being stepped on the stud *a* in the bottom of the churn, so that when in place the dasher is held upright and can be easily rotated on its axis.

The twist portion of casting *D* is of acute
45 pitch and is engaged by the bifurcated end of an oscillating lever *F*, pivoted in a slot in casting *C*, as shown. The bifurcated end of lever *F* is just wide enough to neatly embrace the twist portion of casting *D*, and each

arm of the bifurcation has an inwardly-projecting semiglobular protuberance or enlargement *f* on its end and inner face, adapted to engage and fit in the twist of the casting, the twists being concaved in cross-section, as shown.
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55

When the churn-body is in place, the dasher is placed therein and the twist portion of casting *D* is slipped between bifurcations of the lever *F* by pressing the casting *D* toward the lever and slightly turning the casting.
60 Then thumb-bolt *c* is screwed down into socket *d*, holding the dasher firmly in a vertical position. Then by vibrating lever *F* the protuberances *f* on its bifurcations rising and falling in engagement with the inclined
65 twists of the casting rotate the latter, as is evident.

The device is very simple and efficient in operation.

I am aware that it is old to convert reciprocating motion into rotary motion by means of a twist-stock and nut and lever; but I believe my device is wholly novel and more simple and as efficient as any prior devices of this character for the purpose described.
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Having thus described my invention, what I therefore claim as new, and desire to secure by Letters Patent thereon, is—

1. In a churn, the combination of the churn-body, dasher, and twist portion on the upper
80 end of dasher; with the vibrating lever having a bifurcated end embracing and directly engaging the twist portion of the dasher, for the purpose and substantially as described.

2. In a churn the combination of the churn-body, the dasher, having a twist portion on the outer end of its shaft; and means for securing said dasher in position while allowing it to be rotated; with the oscillating lever having a bifurcated end embracing and directly
85
90 engaging the twist portion of the dasher, the bifurcations having inwardly-projecting protuberances on their ends for the purpose and substantially as described.

3. The combination in a churn, of the
95 stand, the casting *C* mounted thereon having a thumb-bolt in its upper end, the churn-body, its dasher, and the twist-casting *D* on

the dasher-shaft; with the vibrating lever F
pivoted to said casting C, and having a bi-
furcated end provided with enlargements *f*
adapted to directly engage the twists of the
5 casting, all substantially as and for the pur-
pose described.

In testimony that I claim the foregoing as

my own I affix my signature in presence of
two witnesses.

PETER CATINNA.

Witnesses:

J. F. L. COCHRAN,
W. B. GREENLOW.