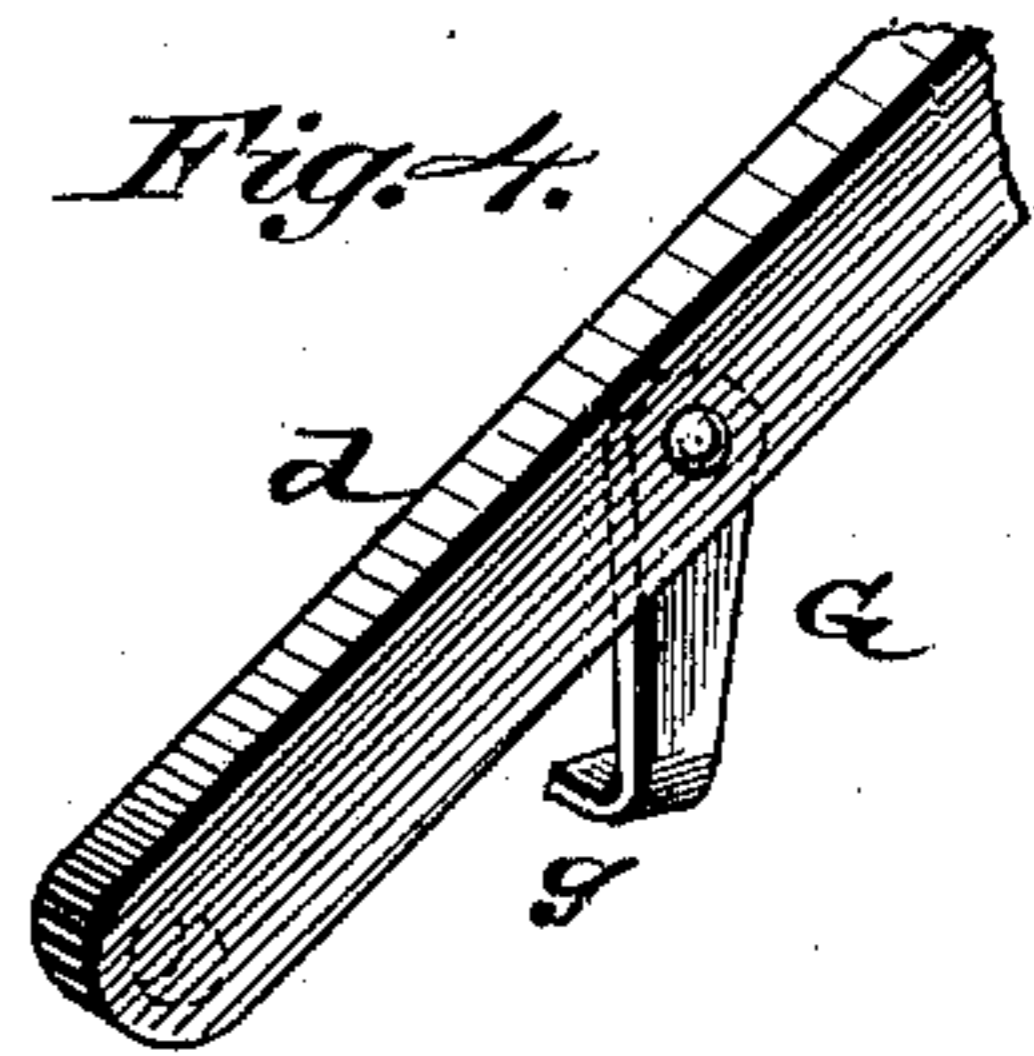
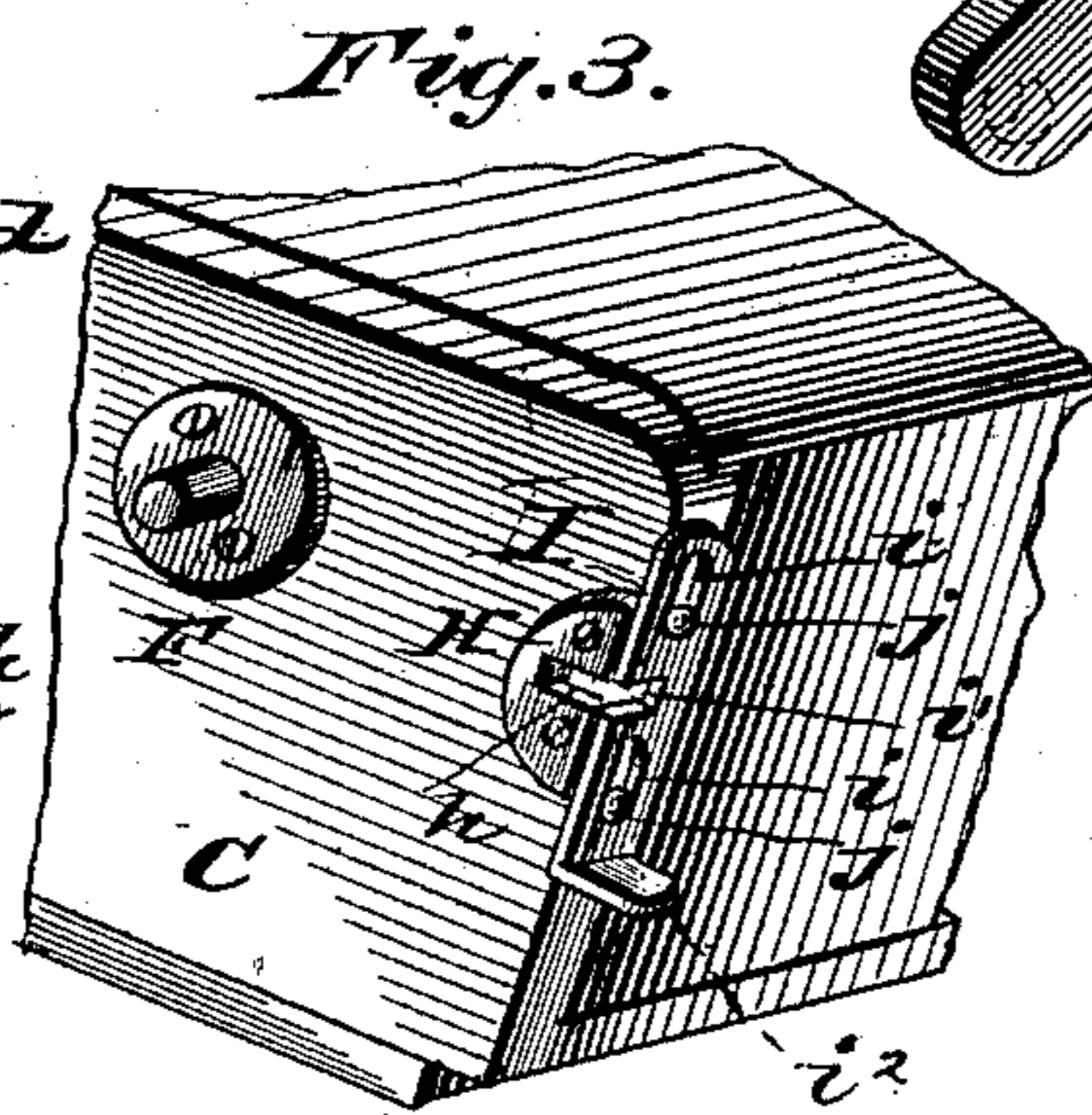
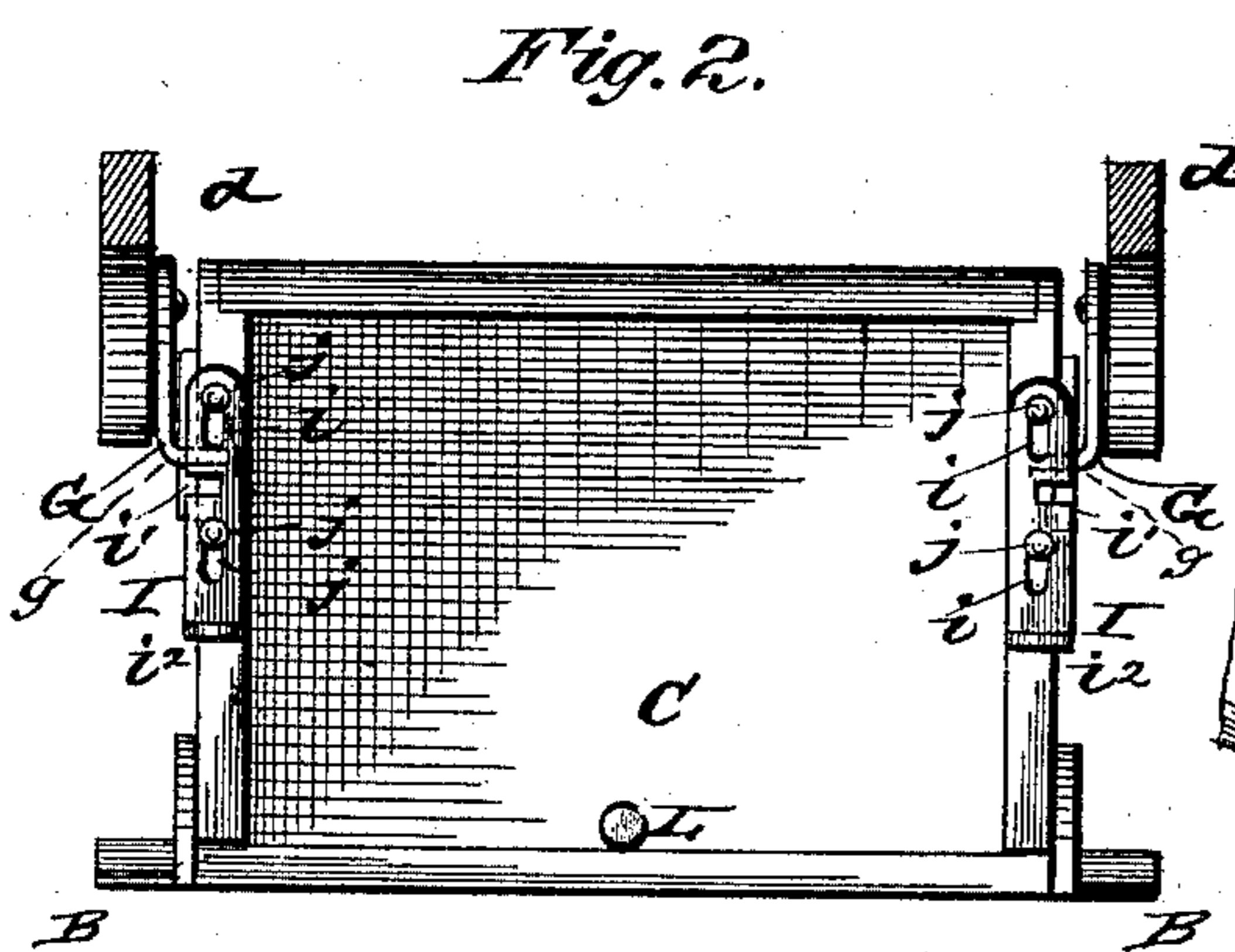
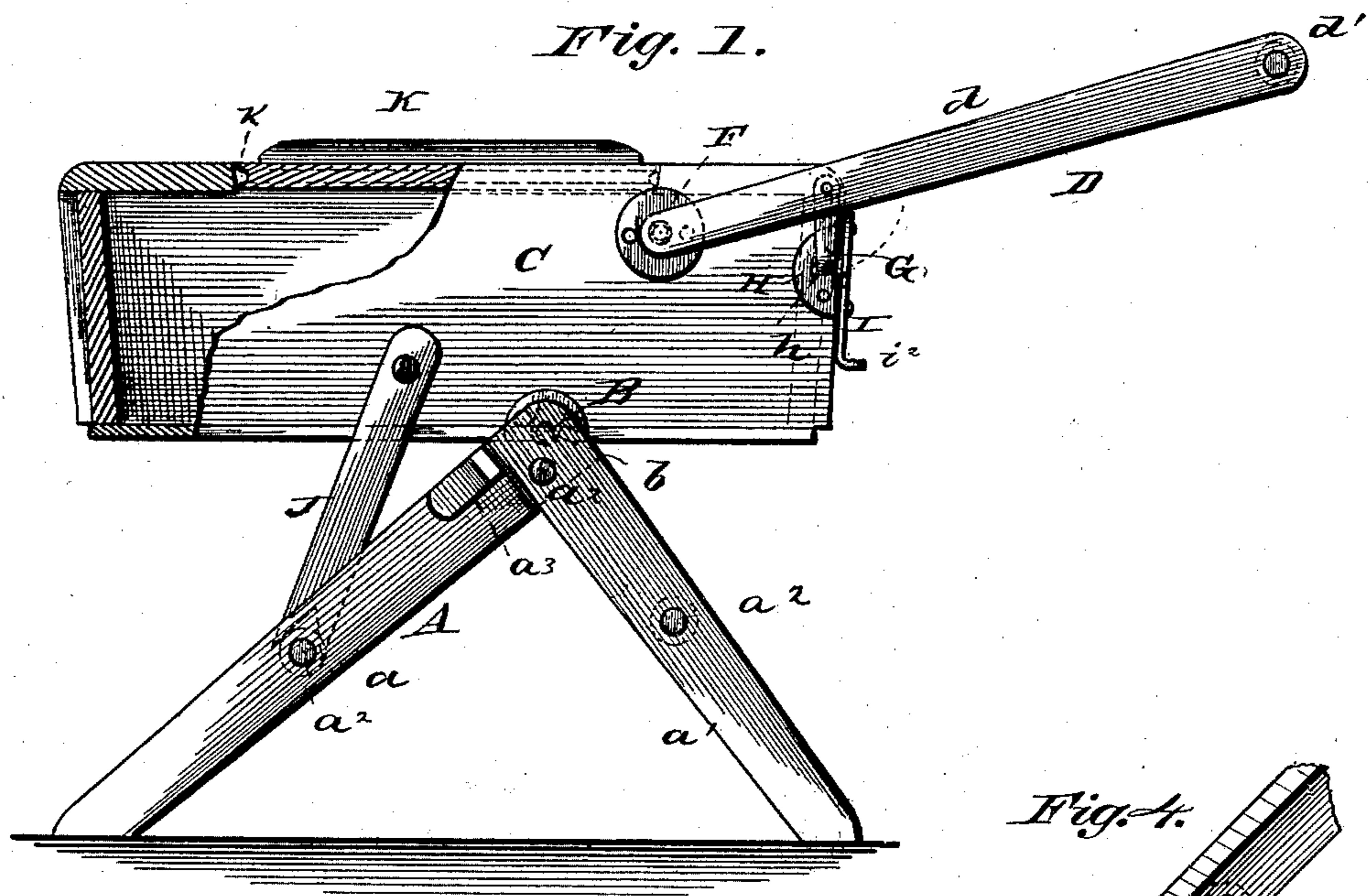


(No Model.)

G. BULL.
CHURN.

No. 277,830.

Patented May 15, 1883.



Witnesses:
Phil C. Dieterich
B. Hanne

Inventor:
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Attorney.

UNITED STATES PATENT OFFICE.

GEORGE BULL, OF MAPLE CITY, ASSIGNOR OF ONE-HALF TO JOHN D. PRYOR, OF WINFIELD, KANSAS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 277,830, dated May 15, 1883.

Application filed January 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BULL, of Maple City, county of Cowley, State of Kansas, have invented certain new and useful Improvements in Churns; and I do hereby 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.

10 My invention relates to that class of churns known as "working-body" churns, the object being to provide a churn of improved construction adapted to be rocked or vibrated to collect butter without the use of a dasher.

15 The invention consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation, partly in section, of a churn constructed in accordance with my invention. Fig. 2 is an end view of the same. Fig. 3 is a detached view, illustrating one of the pivots of the operating-handle and devices for locking the handle in working position; and Fig. 4 is a view of a portion of the handle and its catch.

25 A represents a support or frame, consisting of two pairs of folding legs, $a a'$, pivoted together at their upper ends, the inner leg of each pair having a bearing, b , to receive one of the journals B of the churn C. The pairs of legs $a a'$ are connected by suitable cross-bars, a^2 , and one leg, a , of each pair is provided with a stop, a^3 , to limit the spread of the legs and to provide a firm support for the churn-body.

35 The churn-body C is provided at diametrically-opposite points and to one side of the vertical center of the churn-body with journals B B, adapted to rest in the slotted bearings b of the supporting-frame A.

40 D represents the operating handle or bail of the churn, consisting of the side bars, $d d'$, connected by a suitable grasping or cross-bar, d' . The side bars of the bail are each pivotally secured upon stud-journals F, near the top edge of the churn-body, and are each provided with a pivoted hook, G, adapted to enter a slot, h , formed in the end of the churn-body or in a plate, H, secured thereto. I represents a sliding catch-bar provided with elongated slots $i i$, through which project headed nails or screws j , which serve to secure the catch-bar I in place,

but permit the sliding of the latter. The bar I is also provided with a horizontal slot, i' , adapted to register with the slot h of the plate H, to permit the engagement with the latter of the hooks G, after which the bar I is pulled down by its finger-piece i^2 , to prevent the withdrawal of the hook G. By the means thus described the operating-bail is firmly secured to the end of the churn-body nearest the journals B B; but said bail may, when desired, be disengaged from its catch devices and thrown forward to a position parallel with the churn-body, when the inwardly-bent ends g of the hooks G will catch upon the top of the churn-body to limit the downward movement of the bail.

J represents a brace pivoted to one side of the churn-body, and adapted to engage the adjacent cross-bar a^2 of the frame to support the churn-body in a horizontal position when desired.

K represents the cover of the churn, provided with a grooved or beveled edge, k , to insure a snug fit of the cover and prevent the escape of the cream by splashing during the churning process.

L represents an outlet formed in the end or other portion of the churn-body to enable the buttermilk to be drawn off.

An important feature in my invention consists in the arrangement of the journals of the churn-body at one side of the vertical center of the latter, thus materially lessening the labor of churning, as the weight of the cream will operate to raise the end of the churn carrying the operating-bail, and the only power required of the operator is that necessary to pull the short end of the churn-body or the end carrying the bail downward. The continued lifting or vibrating of the churn-body will speedily collect the butter, after which the churn is steadied in a horizontal position by the brace J, as above described.

Many slight alterations in the details of construction of my device may be resorted to without departing from the spirit of my invention. Hence I would have it understood that I do not limit myself to the precise construction herein shown and described, but reserve to myself the right to make all such changes and modifications as may properly fall within the scope of my invention.

I claim—

1. In a churn, the combination, with a supporting-frame provided with bearings, as described, of a churn-body pivotally supported
5 in said bearings, and provided with a pivoted bail having hooks pivotally secured thereto, and catches secured to one end of the churn-body, substantially as set forth.

2. The combination, with the churn-body and
10 its support, of a pivoted bail provided with pivoted hooks so arranged as to engage the top edges of the churn-body when said bail is not in operative position and to be secured in catches on the end of the churn-body when the
15 bail is in working position, substantially as set forth.

3. The combination, with the supporting-frame and churn-body, provided at one end

with slotted catch-plates and slotted sliding catch-bars, of a pivoted bail provided with piv- 20
otal hooks adapted to be locked to said slotted plates by said sliding bars, substantially as set forth.

4. The combination, with the pivotal bail and its hooks, of the plates H, secured to the 25
sides of the churn-body, and having slots *h*, and the catch-bars I, formed with elongated slots *i*, transverse slots *i'*, and finger-pieces *i*², substantially as set forth.

In testimony whereof I have signed this 30
specification in the presence of two subscribing witnesses.

GEORGE BULL.

Witnesses:

R. C. STORY,

L. D. ZENOR.