

(No Model.)

2 Sheets—Sheet 1.

A. CLAREMBEAUX.

COMBINED CHURN AND BUTTER MOLD.

No. 314,800.

Patented Mar. 31, 1885.

Fig. 1.

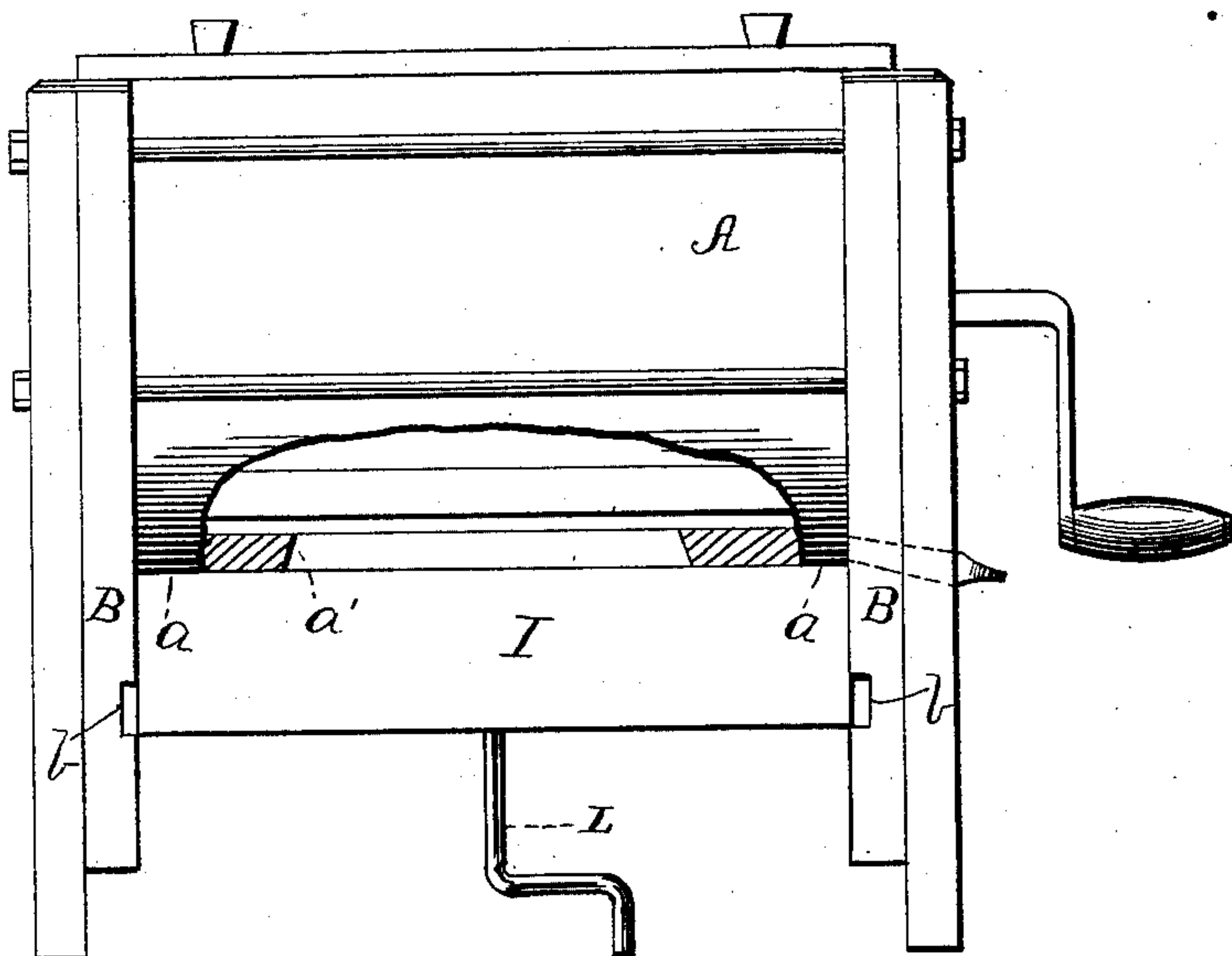


Fig. 2.

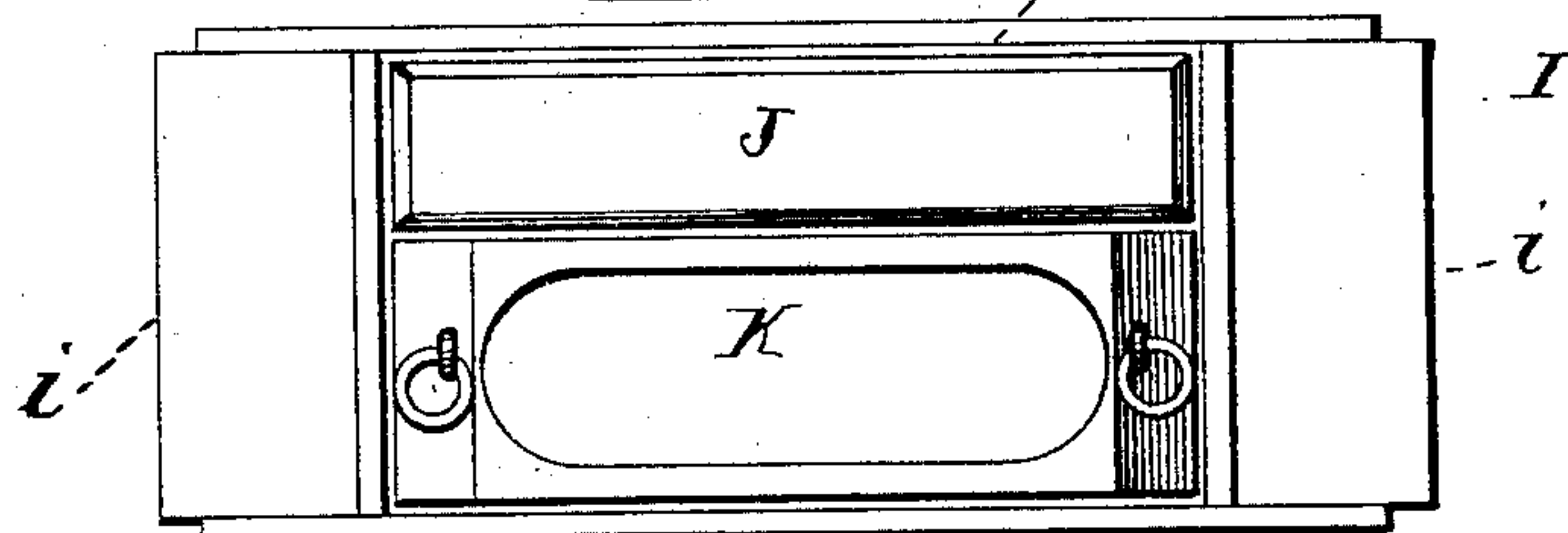


Fig. 3.

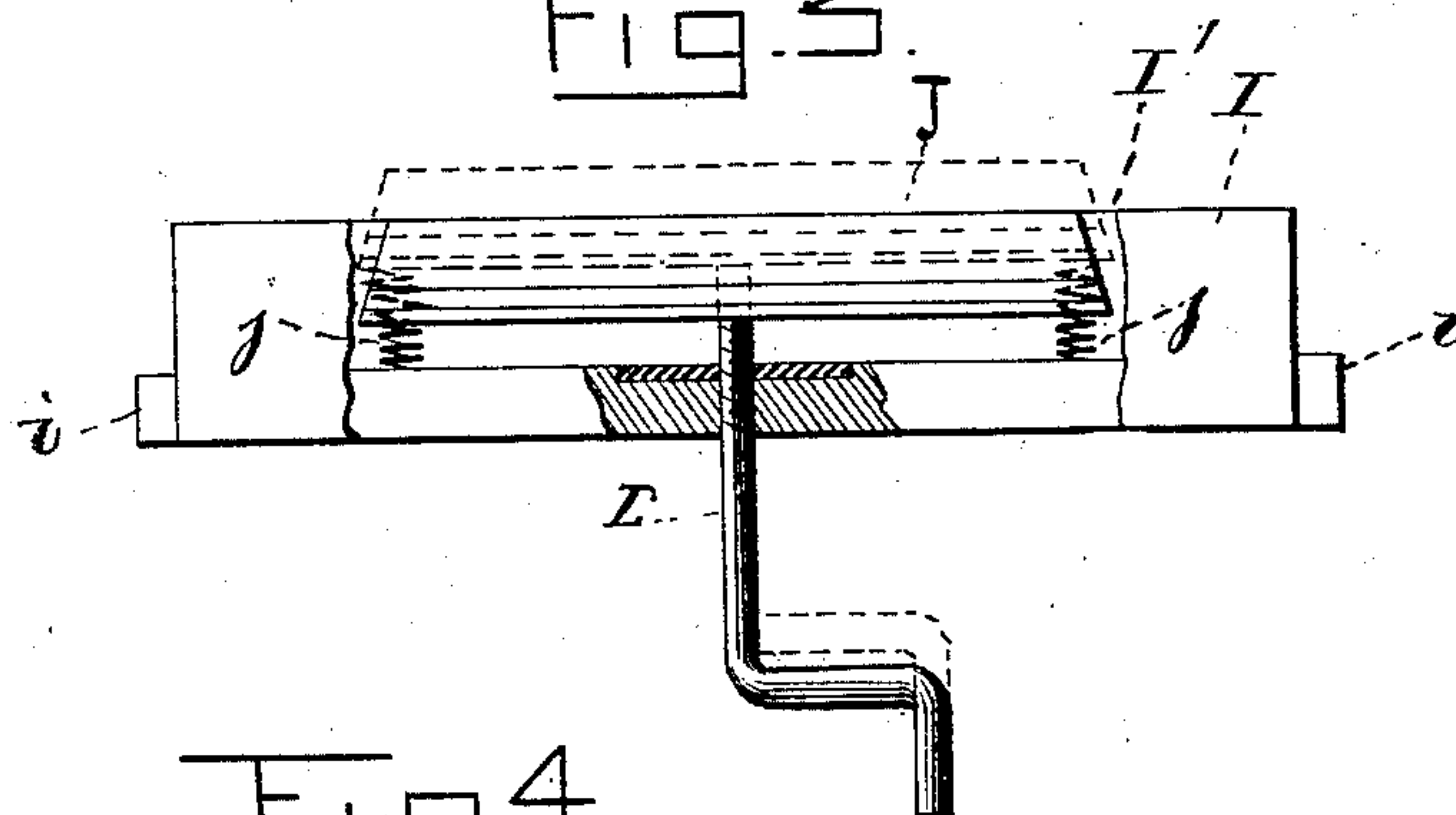
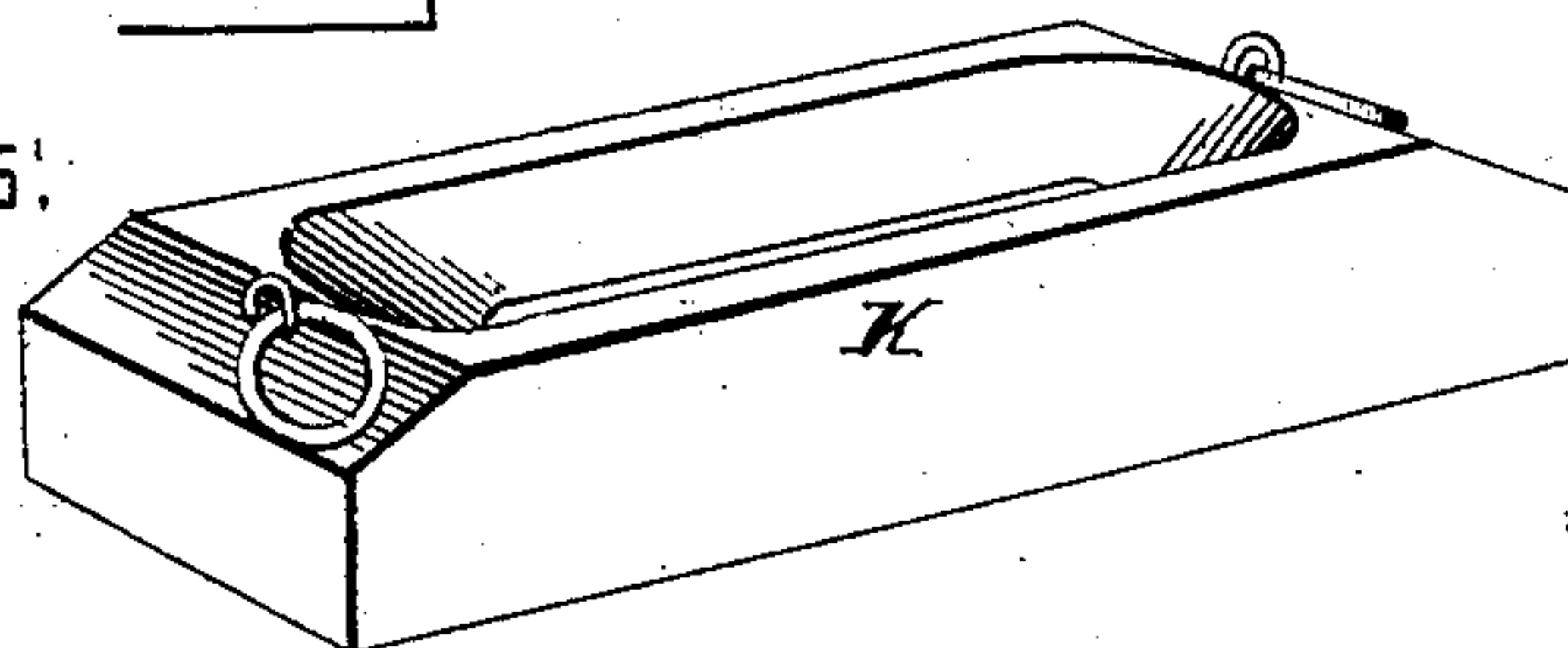


Fig. 4.

WITNESSES:

W. A. Clark,
R. B. Turpin



INVENTOR,

Augustin Clarembaux

By R. S. & A. Lacey

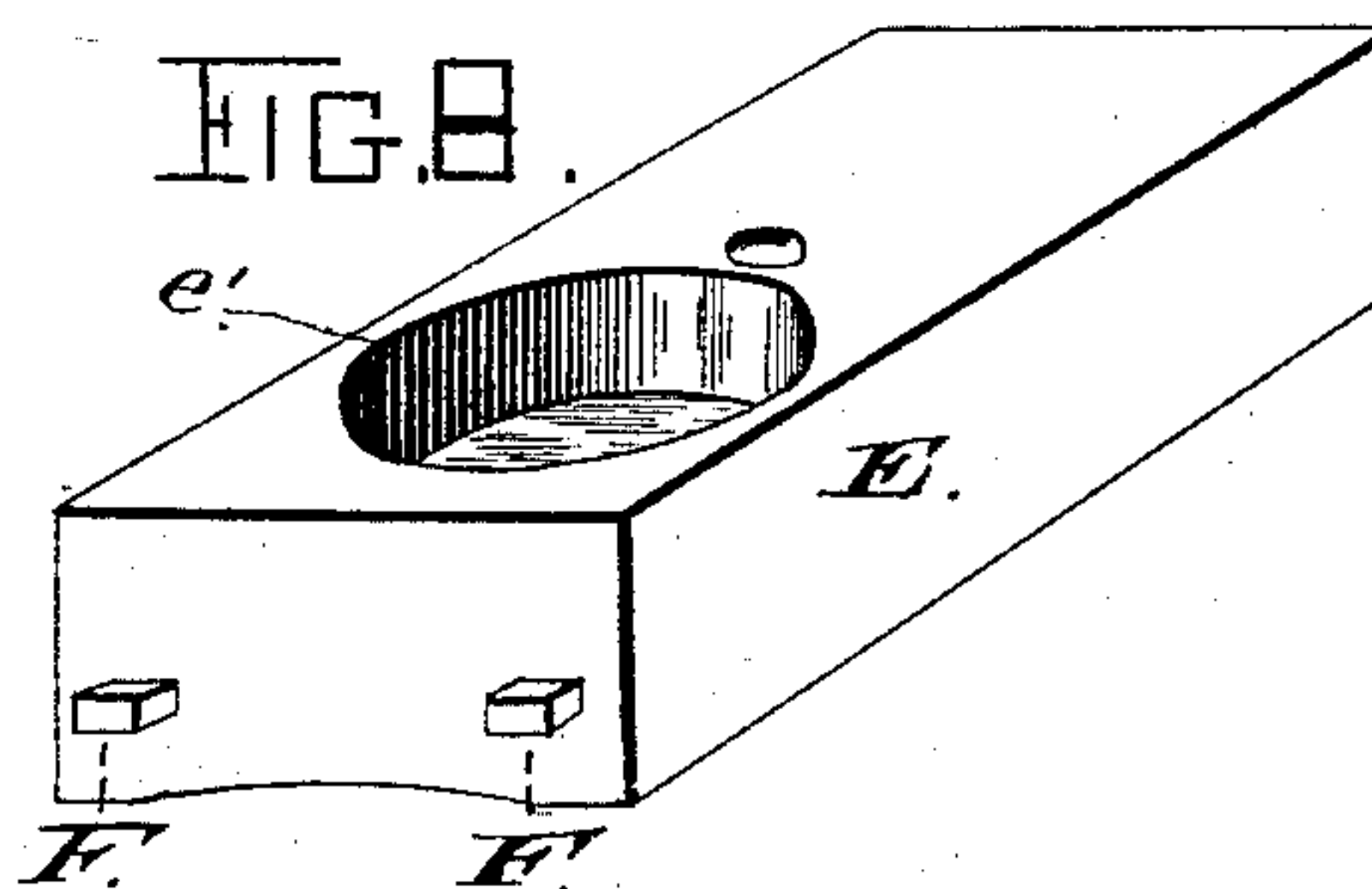
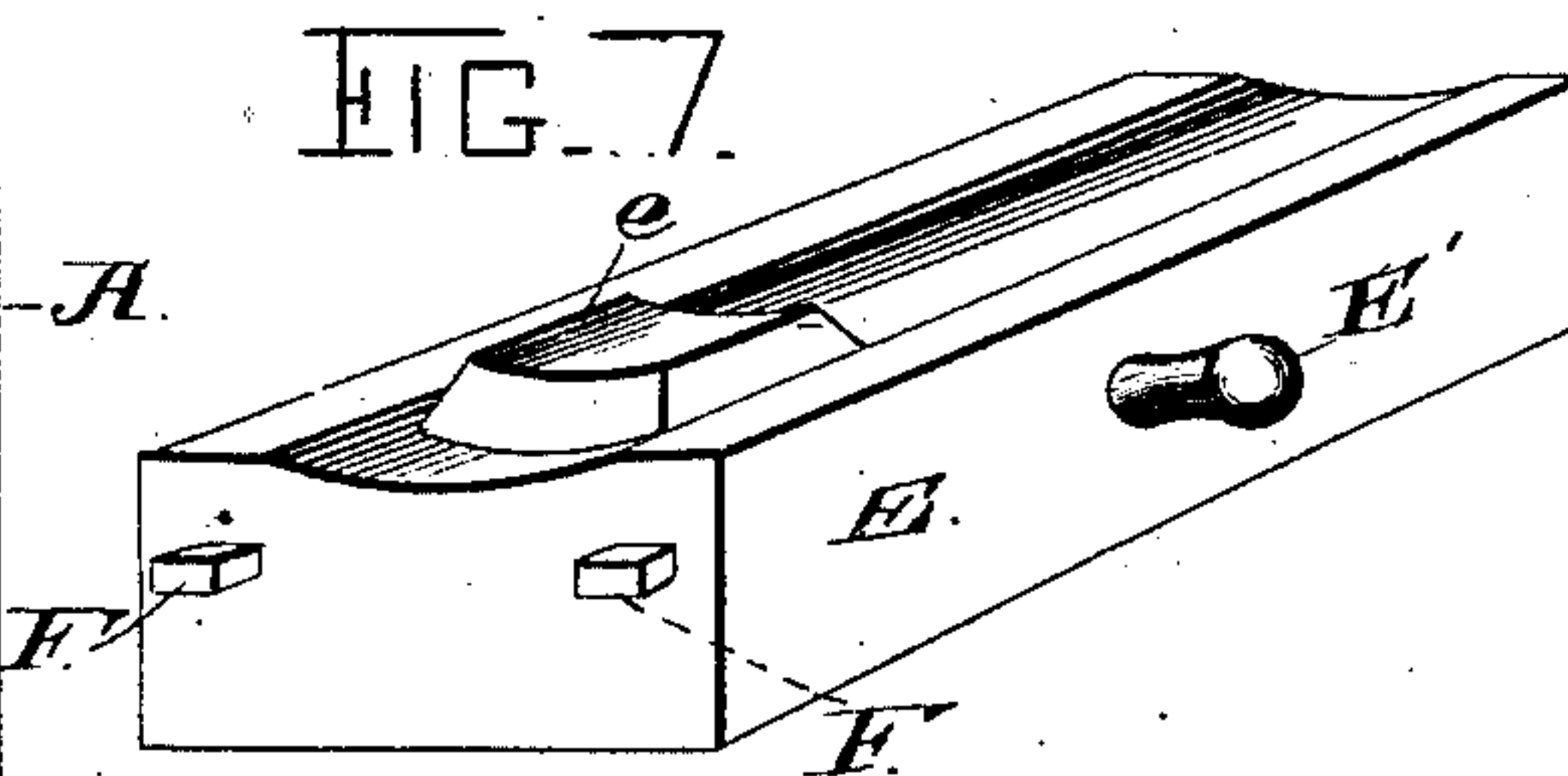
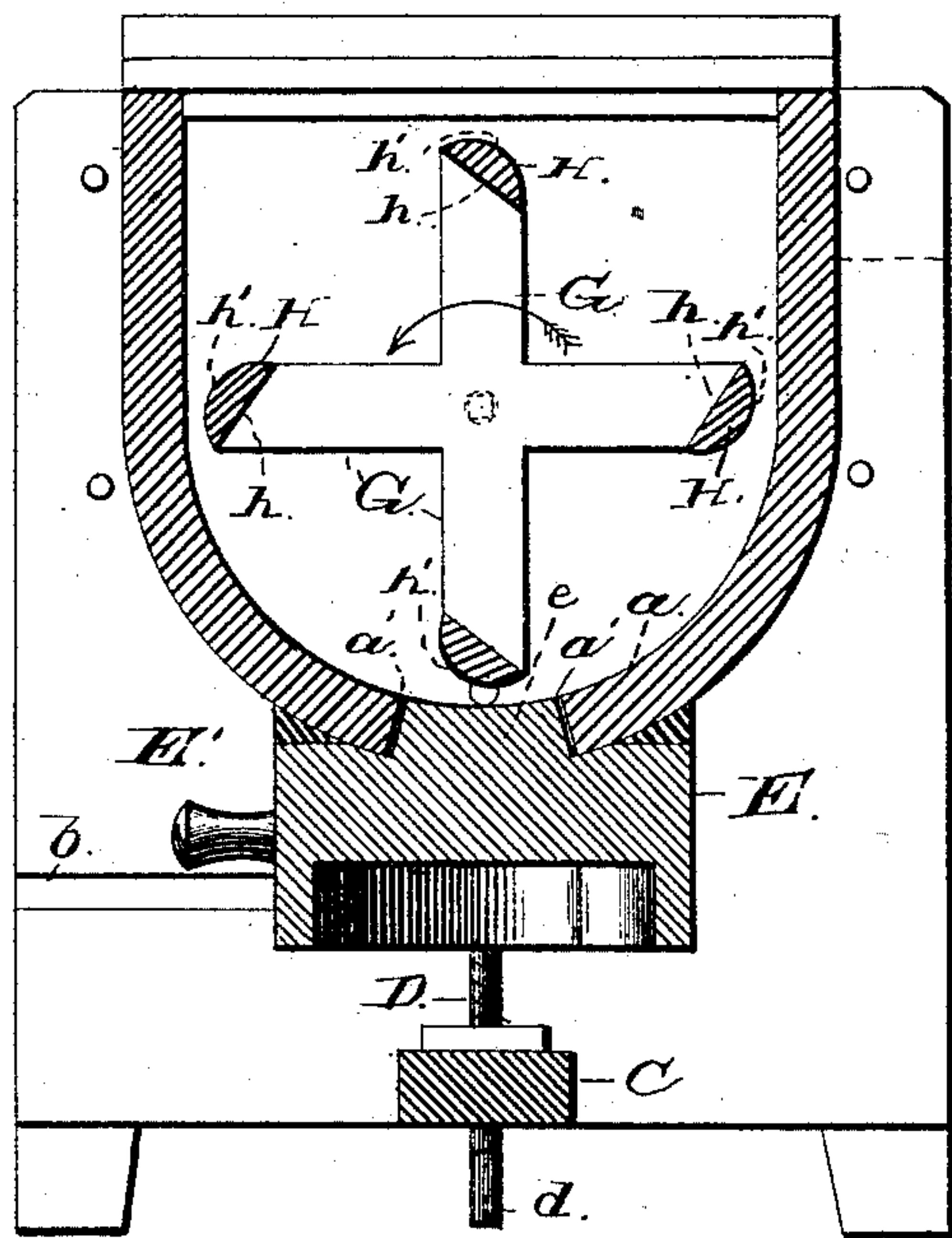
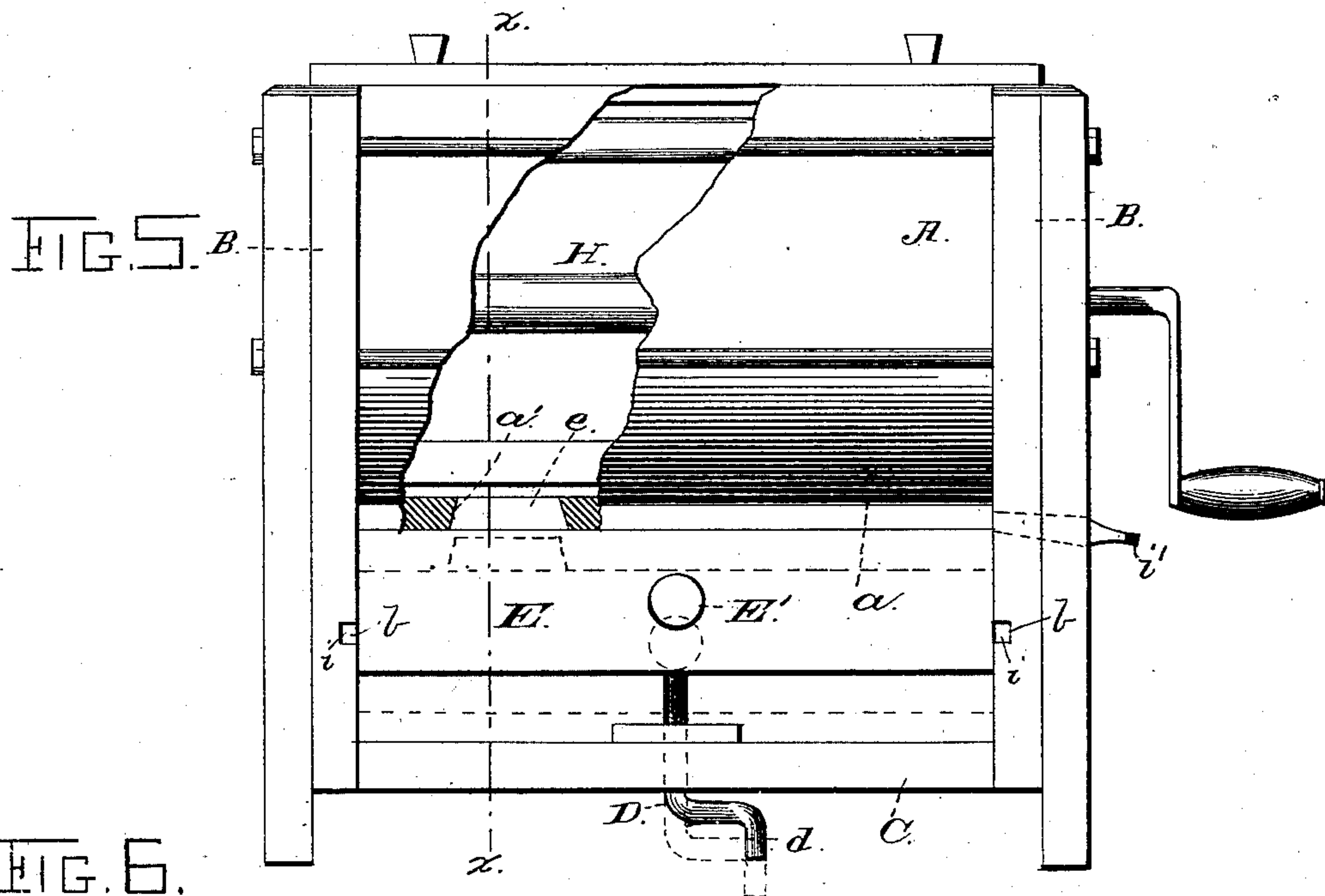
ATTY'S

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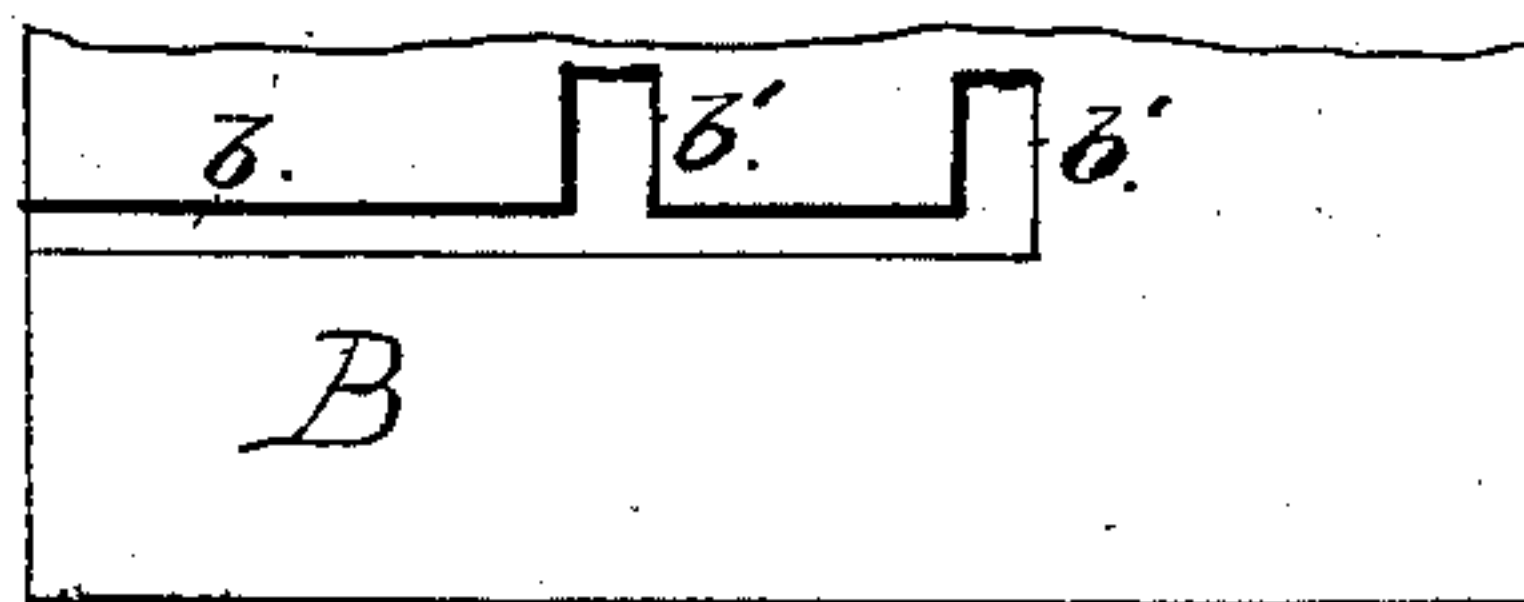
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ATTYS

UNITED STATES PATENT OFFICE.

AUGUSTIN CLAREMBEAUX, OF LUXEMBOURG, ASSIGNOR OF ONE-HALF TO
PASCAL DE GRANDGAGUAGE, OF GREEN BAY, WISCONSIN.

COMBINED CHURN AND BUTTER-MOLD.

SPECIFICATION forming part of Letters Patent No. 314,800, dated March 31, 1885.

Application filed June 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTIN CLAREM-
BEAUX, a citizen of the United States, resid-
ing at Luxembourg, in the county of Kewau-
nee and State of Wisconsin, have invented
certain new and useful Improvements in Com-
bined Churns and Butter-Molds; and I do de-
clare the following to be a full, clear, and ex-
act description of the invention, such as will
enable others skilled in the art to which it ap-
pertains to make and use the same, reference
being had to the accompanying drawings, and
to the letters and figures of reference marked
thereon, which form a part of this specifica-
tion.

This invention relates to churns; and it con-
sists in the novel construction, combination,
and arrangement of parts, as will be herein-
after described and claimed.

In the drawings, Figure 1 is a side view of
my machine, part in section. Fig. 2 is a plan
view of the plug and mold-support, the said
parts being in position. Fig. 3 is a side view,
part in section, of same. Fig. 4 shows the
mold. Fig. 5 is a side view of the churn
having its body partly broken away; Fig. 6,
a transverse section of my machine provided
with modified form of plug and mold-support.
Figs. 7 and 8 are detail views of modified form
of support. Fig. 9 shows the form of guide-
slot used with such modified support, all of
which will be described.

The body A is preferably made with a con-
cave bottom, *a*, through which I form an open-
ing, *a'*, the walls of which taper outwardly to
their lower ends, as shown in Figs. 1, 5, and 6.
This body A is supported by and between the
end boards, B, which are extended below said
body a sufficient distance to support and per-
mit the manipulation of the movable support
presently described. Horizontal slots *b* are
formed in the inner faces of the boards B be-
low the bottom *a* of the body. The support
I has lateral lugs or wings *i*, which are mova-
ble in the slots *b*, so the support may be moved
under the body A or out of the machine, as
will be understood. The upper face of this
support I is provided with a box or receptacle,
I', fitted to receive the plug J and the mold K,
which are placed therein side by side. A
clamping-screw, L, turns through a threaded

opening in the bottom of the support, and is
swiveled at its upper end to the under side of
the plug J, so it may, as it is turned, move
said plug up or down, according as it is re-
volved in one or the other direction. The
plug, it will be seen, is adapted to the open-
ing *a'* in the churn-bottom, and may by the
screw be adjusted up to close said opening or
down clear thereof, as will be understood. In
order to hold the plug level, springs *j* may be
inserted under its opposite ends, as shown in
Fig. 3. It will be seen that the support may
be moved in slots *b*, so as to bring the plug or
mold under the opening *a'* to close the box or
enable the molding of the butter, as will be
understood. When the mold is being filled, it
is desirable to hold the support in position by
clamping the plug up against the bottom of
the body.

While I prefer to construct the support as
shown in Figs. 2, 3, and 4, it is manifest it might
be modified and that the manner of holding
the same in the desired position may be also
varied. In Figs. 5, 6, 7, 8, and 9 I illustrate
such modifications, and will now describe
them. The slots *b* are provided with wings
b', which are formed vertically and intersect
the slot *b*, which is formed approximately at
right angles to slots *b'*, as most clearly shown
in Fig. 9. A cross-bar, C, connects the lower
edges of the end boards, B, midway the sides of
the same. This cross-bar serves as a bearing
for the set-screw D, which turns through it
and is constructed on its lower end with a
hand-crank, *d*, or in other suitable manner so
it may be readily revolved. The support E
is provided on one side with a plug, *e*, fitted
to the opening *a'*, and on its opposite side with
a depression or mold, *e'*, which is so arranged
as to rest directly under opening *a'* in the in-
verted position of the support. Lugs or studs
F are projected from the ends of the block and
operate in the slots *b b'*. By preference, I pro-
vide the support E with a handle, E', extended
from one side, so it may be easily placed and
removed in the operation of the device. It
will be seen that, in the modification, I adjust
the plug into the opening *a'* by moving the
support, and to such end I provide the vertical
slots *b'*, to permit and guide the upward move-
ment of the lugs F F. It is preferred, how-

ever, to use the support shown in Figs. 1, 2, 3, and 4, because in such case either plug or mold may be adjusted under the opening without inverting the support, and the use of different sized or designed molds and the removal of a filled mold for an empty one is facilitated, as will be understood. The dasher is composed of radial arms G and horizontal arms H, and is journaled to revolve on a horizontal axis, as shown, the horizontal arms moving close to the concave bottom of the body and over the opening a' formed through same, as clearly shown in Fig. 2. These horizontal arms are formed on one side with a breaking or churning surface, h , which is inclined to the rear and inwardly from the line of churning motion, which is as indicated by arrow in Fig. 6, and the opposite side, h' , is formed to press the butter through opening a' and into the mold placed under said opening when the dasher is revolved in an opposite direction from that indicated by the arrow. An opening in the end of the body permits the buttermilk to be discharged and is closed during the operation of churning by a suitable plug.

In operation, when the parts are in the position shown in Figs. 5 and 6, the machine is in position for churning. When the churning is completed, the clamping-screw is turned down and the support is adjusted either by lateral movement or inverted, so as to bring the mold under the opening a' . The dasher is now revolved in a direction opposite its churning motion, and the pressing surfaces press the butter into the mold, as will be readily understood.

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

40 1. The combination, with the body provided in its lower side with an opening, the support located below said opening and provided with

a plug fitted thereto, and a mold adapted to fit thereunder, and a dasher, the dasher being arranged in the body and adapted to churn the milk and to force the butter when formed through the opening in the body, all arranged and operating substantially as set forth. 45

2. The combination, with a churn-body provided in its lower side with an opening, of the support provided with a plug fitted to said opening and with a mold adapted to fit thereunder, said support being adjustable, substantially as described, whereby either the mold or plug may be brought to register with the churn-opening, substantially as set forth. 50 55

3. The combination of the churn-body provided in its lower side with an opening, the end boards provided with horizontal guide-grooves, the support having lateral end lugs fitted to said grooves and provided with a plug and mold, as described, and the screw, substantially as set forth. 60

4. The combination of a churn-body having a discharge-opening, a support held under said opening and movable laterally, as described, a mold held movably in said support, a plug arranged in said support, and a screw turned through the bottom of the support and engaged with the plug, substantially as set forth. 65 70

5. The combination of the churn-body, the support, the plug held therein, the clamping-screw engaged with and operating said plug, and leveling-springs arranged to bear on said plug, substantially as set forth. 75

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

AUGUSTIN ^{his} × CLAREMBEAUX.
mark.

Witnesses:

O. J. B. BRICE,
E. T. VERMEYEN.