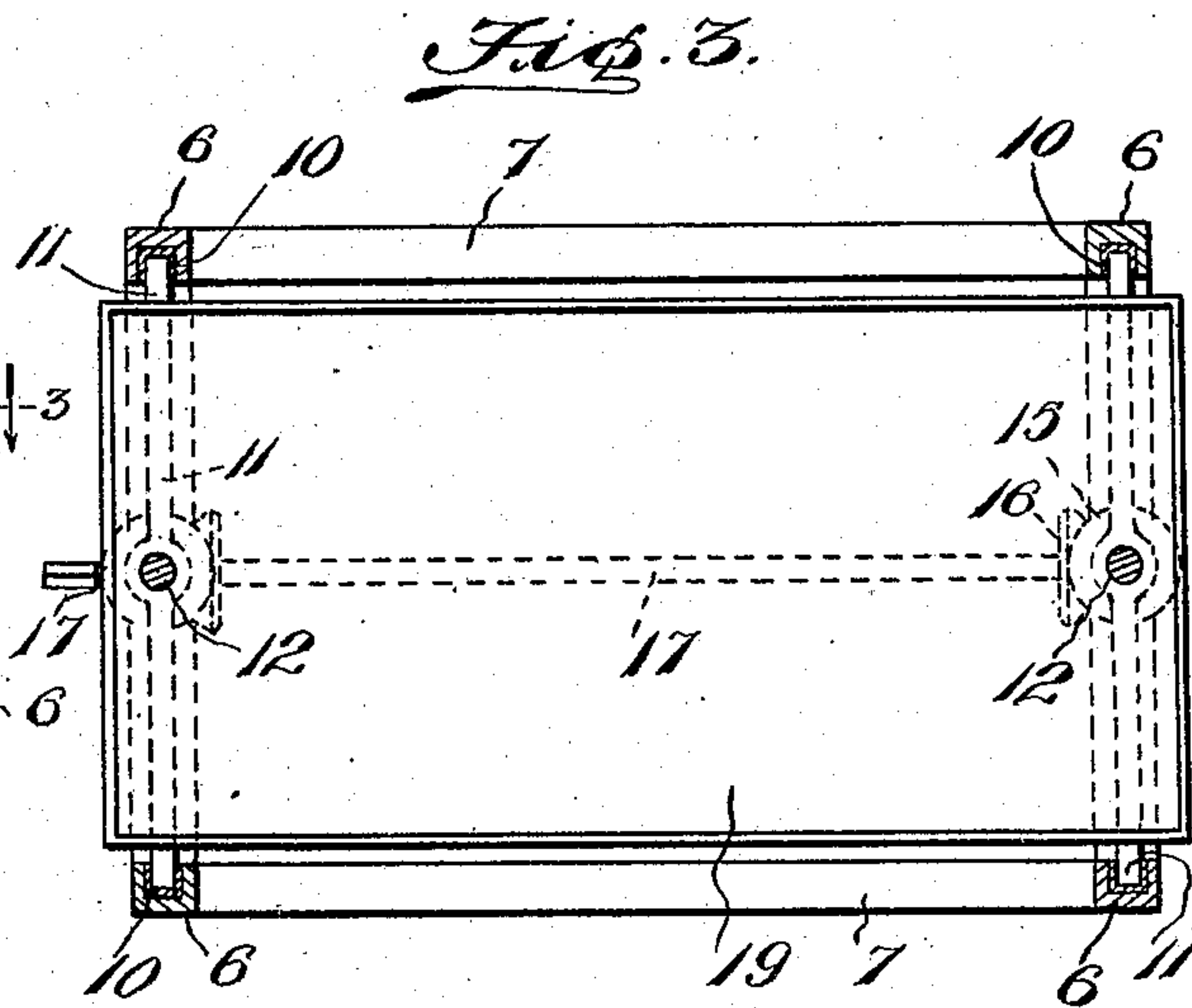
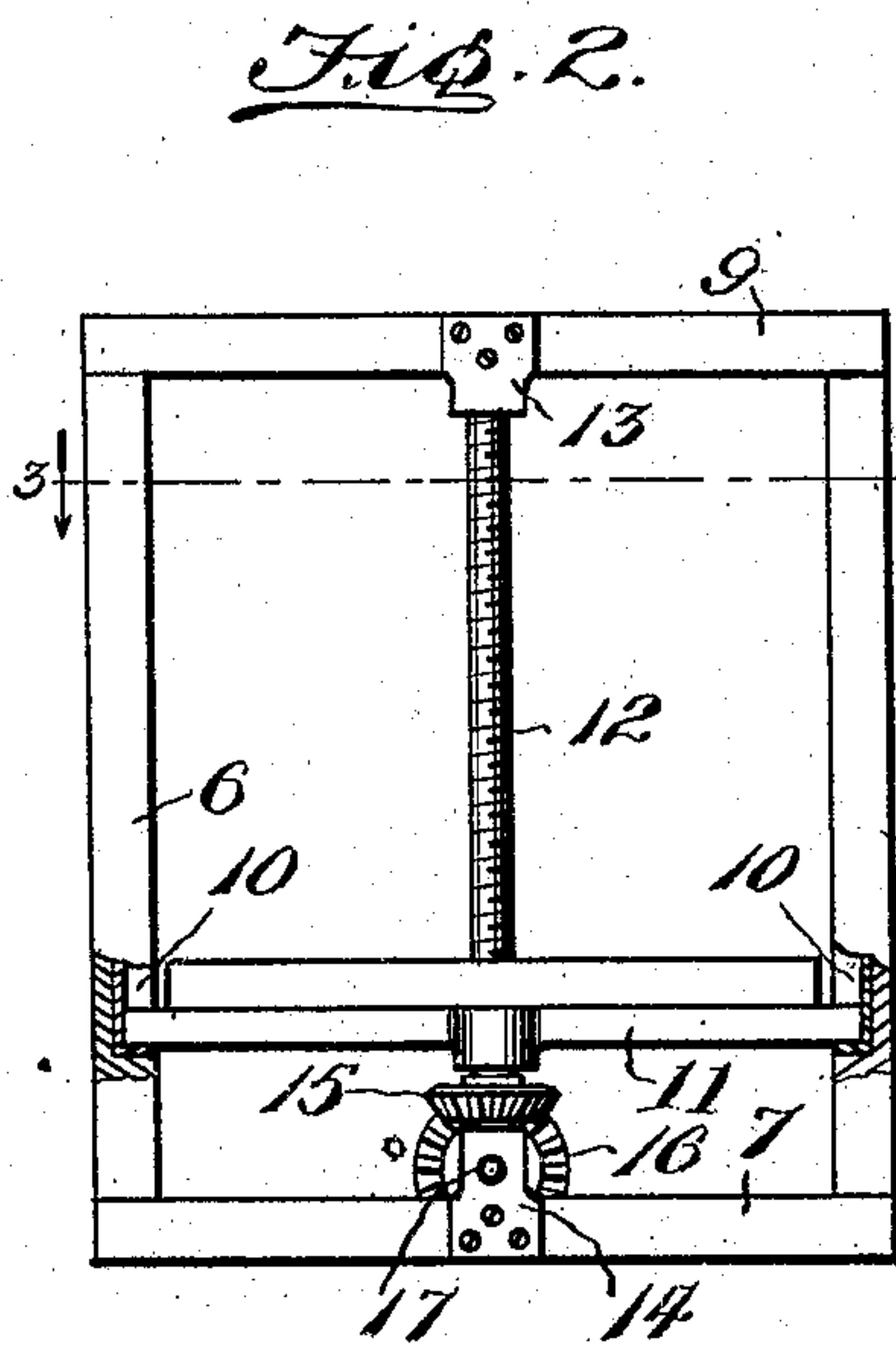
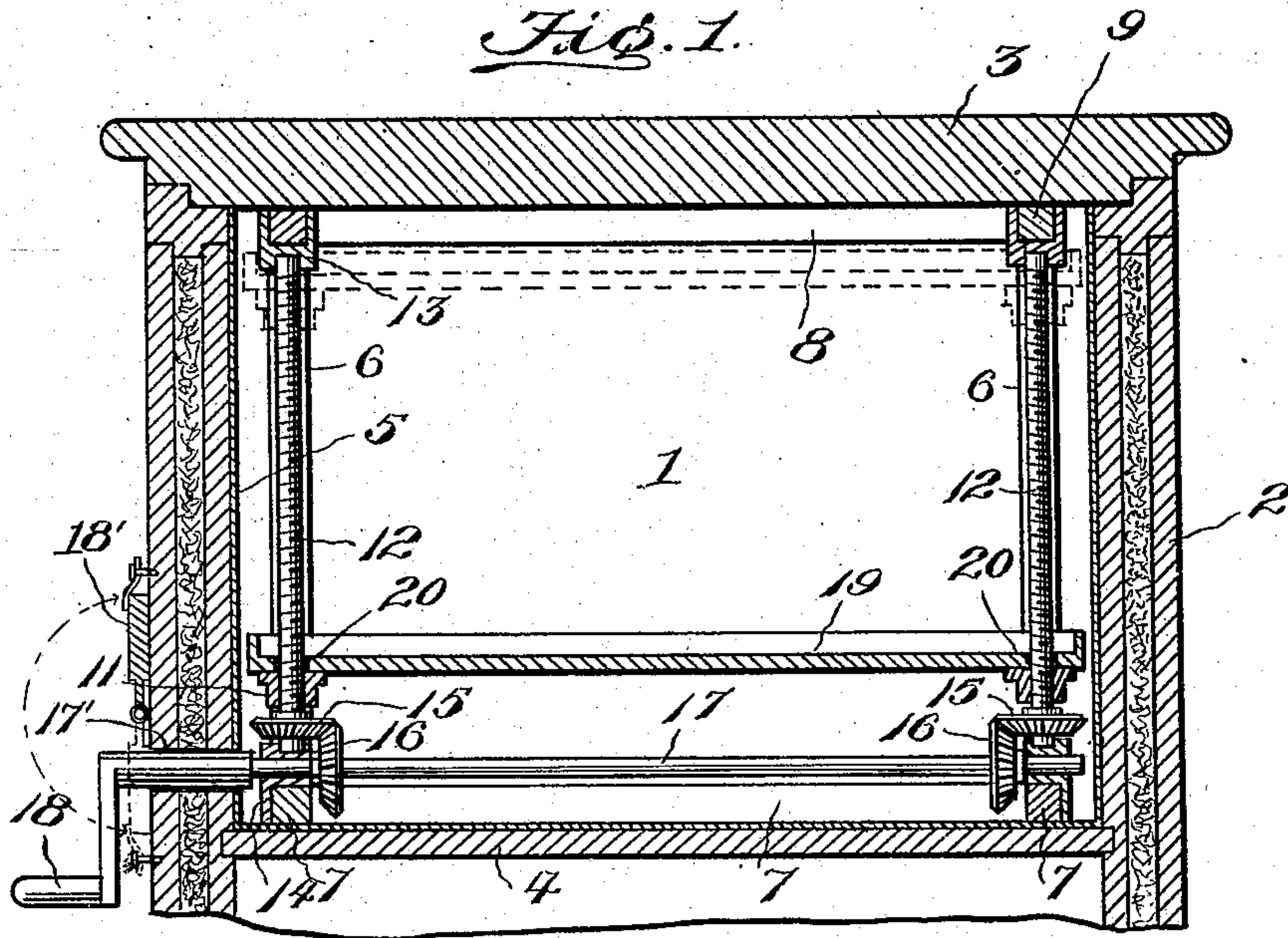


A. C. SAMPLE.
REFRIGERATOR.
APPLICATION FILED AUG. 30, 1907.

911,843.

Patented Feb. 9, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

AARON C. SAMPLE, OF IRONTON, OHIO.

REFRIGERATOR.

No. 911,843.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed August 30, 1907. Serial No. 390,777.

To all whom it may concern:

Be it known that I, AARON C. SAMPLE, a citizen of the United States, residing at Iron-
ton, in the county of Lawrence and State of
Ohio, have invented new and useful Im-
provements in Refrigerators, of which the
following is a specification.

This invention relates to refrigerators, and
it has for its object to prevent injury to the
refrigerator by forcibly dumping or deposit-
ing ice in the ice compartment; further ob-
jects being to simplify and improve the gen-
eral construction, and to facilitate the plac-
ing of ice in the ice compartment.

With these and other ends in view which
will readily appear as the nature of the in-
vention is better understood, the same con-
sists in the improved construction and novel
arrangement and combination of parts
which will be hereinafter fully described and
particularly pointed out in the claim.

In the accompanying drawing has been
illustrated a simple and preferred form of the
invention; it being, however, understood
that no limitation is necessarily made to the
precise structural details therein exhibited,
but that changes, alterations and modifica-
tions within the scope of the invention may
be resorted to when desired.

In the drawing, Figure 1 is a vertical sec-
tional view taken through the ice compart-
ment of a refrigerator equipped with the
invention. Fig. 2 is a transverse sectional
view of the frame structure constituting the
invention. Fig. 3 is a horizontal sectional
view taken on the plane indicated by the line
3—3 in Fig. 2.

Corresponding parts in the several figures
are denoted by like characters of reference.
1 designates the ice compartment of a re-
frigerator, a portion of the casing of which is
shown at 2, 3 representing the lid or cover
and 4 the bottom of the ice compartment
which has been shown as being provided
with the customary lining 5 of sheet metal,
such as zinc or other suitable material.

A suitable frame is placed in the ice com-
partment, said frame including four corner
posts or uprights 6—6 which are connected
at their lower ends by sills 7 and at their up-
per ends by longitudinal cap pieces 8 and
transverse cap pieces 9; it being understood,
however, that the construction of the frame
may be varied at will, and that the said
frame may be built into the refrigerator
structure. The corner posts are provided

with grooves 10 wherein are guided cross
pieces 11 which are vertically movable and
adjustable by means of screws 12, the upper
and lower ends of which are journaled re-
spectively in bearings 13 and 14 fixed upon
the transverse cap pieces 9 and upon the end
sills 7. The screws 12 are provided near
their lower ends with bevel pinions 15 mesh-
ing with bevel pinions 16 upon a shaft 17
supported for rotation in the bearing mem-
bers 14 upon the end sills 7; said shaft is in
axial alinement with an aperture, 17', formed
in the refrigerator casing, and through which
may be inserted a crank 18 whereby said
shaft may be conveniently rotated for the
purpose of rotating the screws 12, thus caus-
ing the cross pieces 11 to travel upward or
downward according to the direction of ro-
tation. The aperture 17', when the crank 18
is not in use, may be covered by a pivoted
flap 18'. The two screws 12—12 have been
shown as being respectively right and left
threaded, and the gearing is so arranged as to
cause the said screws to be simultaneously
rotated in opposite directions; within the
scope of the invention it is, however, evident
that the screws may be similarly threaded,
in which event the gearing will be arranged
to rotate both screws in one direction. The
ice pan 19 which is supported upon the ver-
tically movable cross pieces 11 may be pro-
vided with apertures 20 for the passage of the
screws.

It will be readily seen that by rotating the
shaft 17, the screws 12 may be rotated to
cause the cross pieces carrying the ice pan to
move in an upward direction, thus enabling
ice to be readily placed in position thereon,
without bruising or injuring the refrigerator
or its lining; after the ice has been placed in
position, the pan may be lowered until the
ends of the cross pieces 11 are supported at
the lower ends of the guide slots 10, thus re-
lieving the screws from unnecessary strain.

This invention is extremely simple, and
serviceable for the purposes set forth. It
may be readily applied to refrigerators of or-
dinary make; or refrigerators may be spe-
cially constructed to embody the features of
the invention.

Having thus fully described the invention,
what is claimed as new is:—

A refrigerator comprising a casing having
an ice compartment and an opening in one of
its walls communicating with the base por-
tion of said compartment, a frame within

said compartment embodying front and rear sets of corner standards and interconnecting top and bottom longitudinal and transverse bars, said standards being formed with
5 grooved guideways, screw shafts disposed between the respective sets of standards and journaled in the top and bottom cross-bars, said shafts being provided at their lower ends with pinions, transverse carrier bars
10 having their end portions slidable in the grooved guideways in the standards, said bars being provided with intermediate threaded openings engaging the screw shafts, a tray disposed within the frame and perforated for the passage of the screw shafts,
15 said tray resting at its ends upon said supporting bars and adapted to be elevated and

lowered thereby upon the revolution of the screws in one direction or the other, a shaft journaled in the lower front and rear cross- 20 bars of the frame and carrying gears meshing with said pinions, one end of said shaft being arranged in line with said opening in the casing, whereby said shaft is adapted to be engaged by an operating crank or the like in- 25 serted through said opening, and a cover for closing the opening when the crank is withdrawn.

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

AARON C. SAMPLE.

Witnesses:

R. D. McKNIGHT,
J. H. VARNUM.