

No. 780,654.

PATENTED JAN. 24, 1905.

H. HANSON.
POTATO SLICER.

APPLICATION FILED MAR. 18, 1904.

2 SHEETS—SHEET 1.

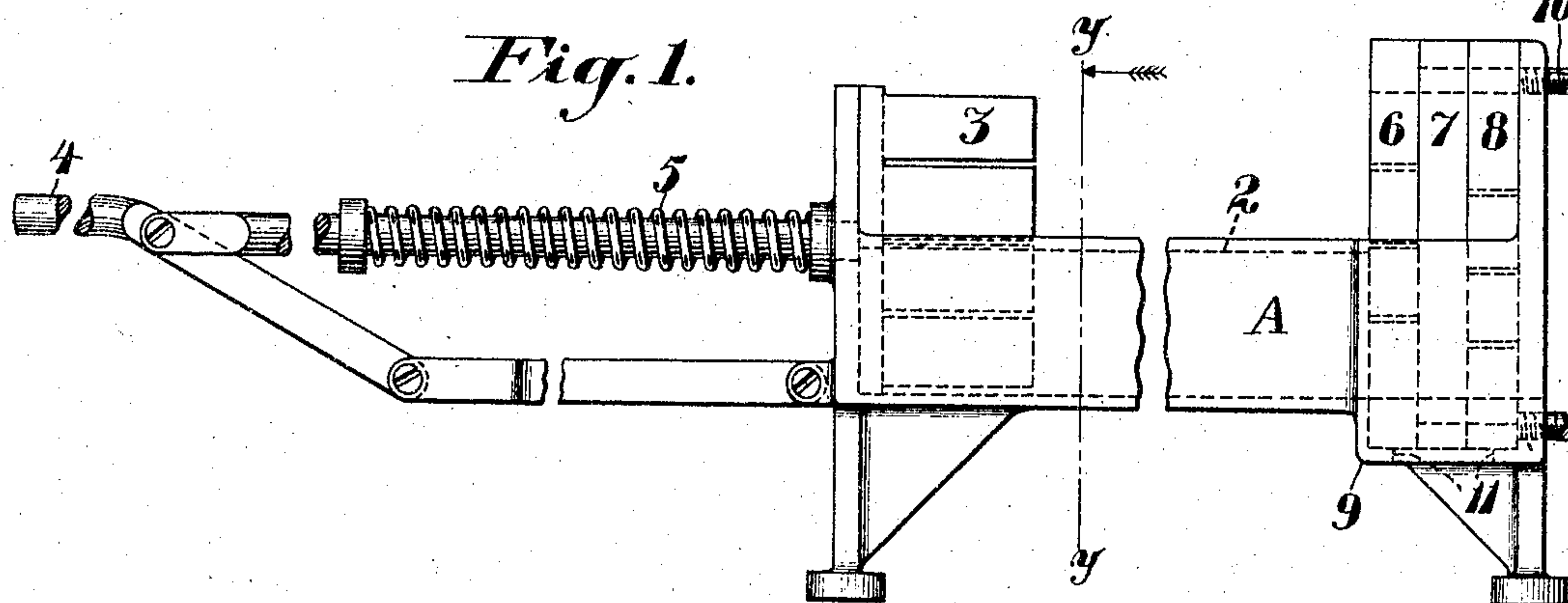


Fig. 2.

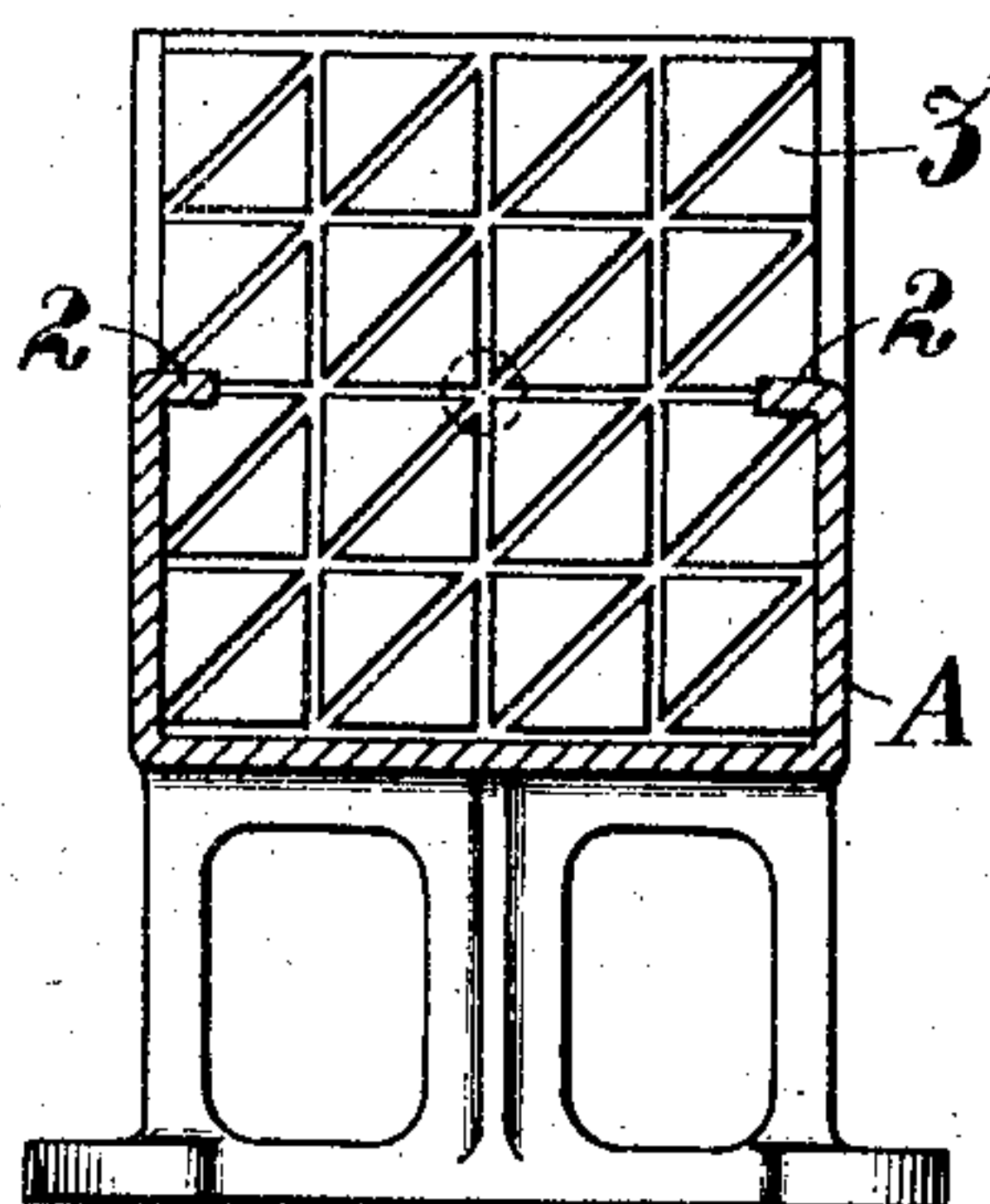


Fig. 3.

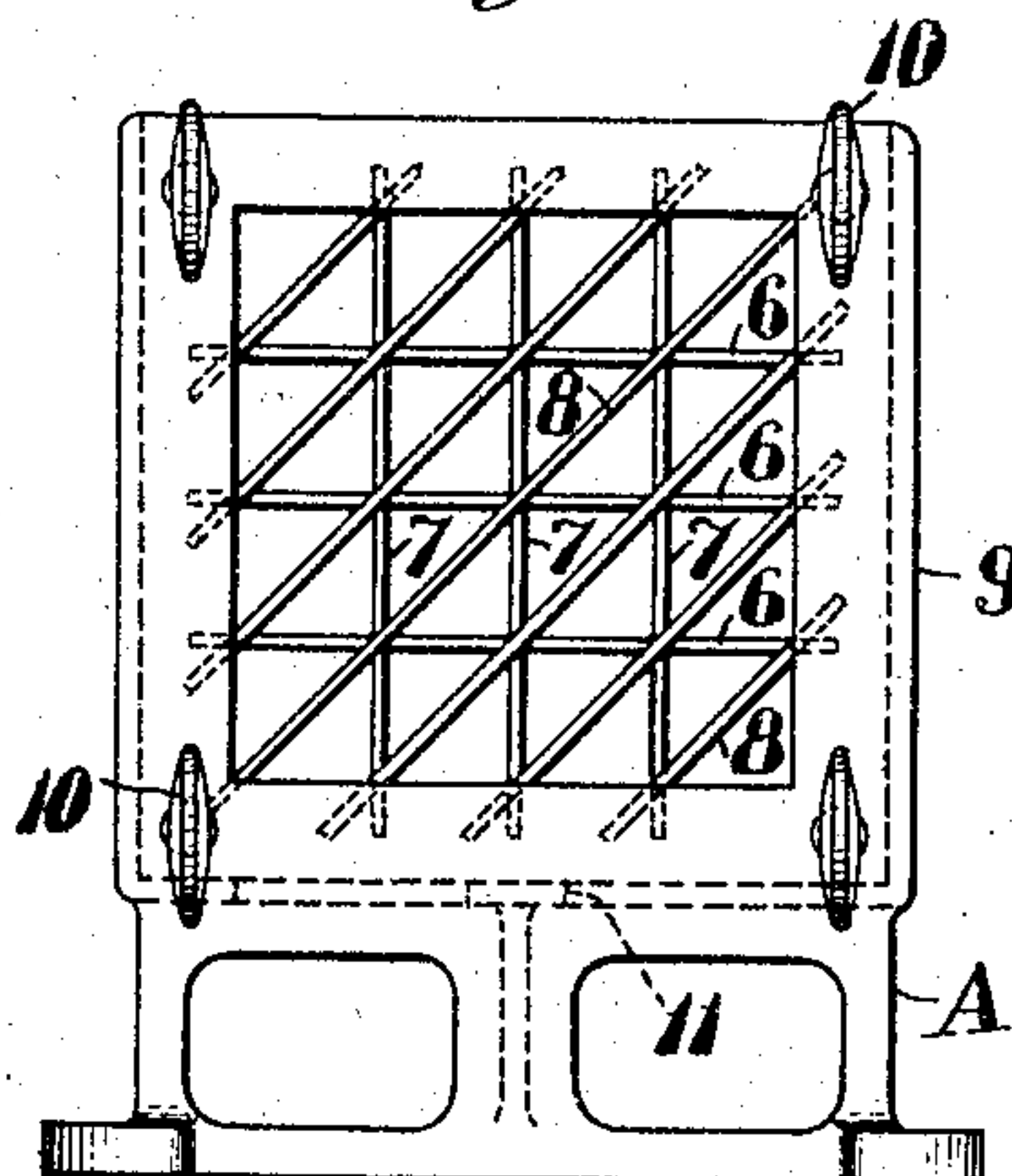


Fig. 4.

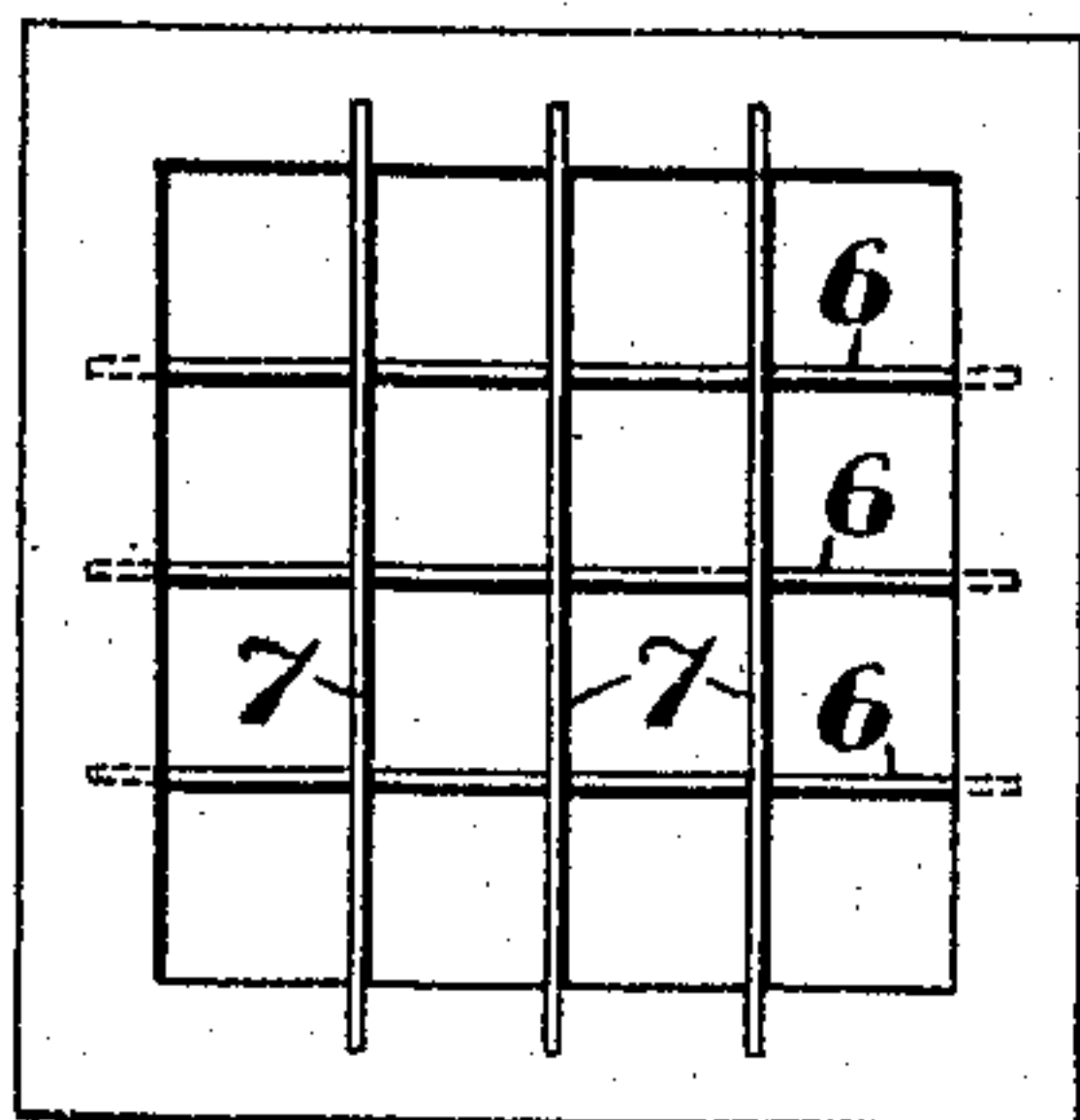


Fig. 5.

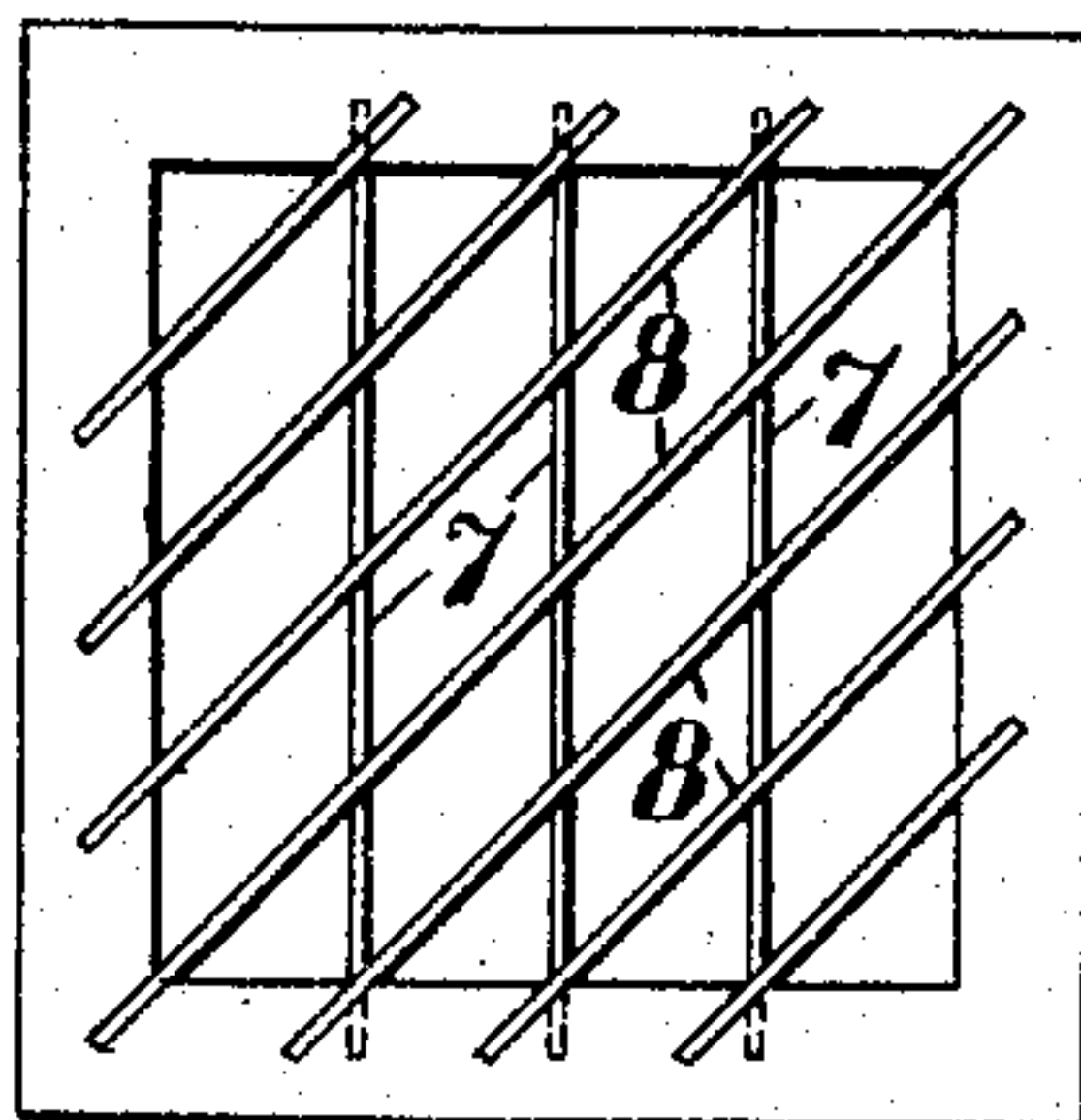
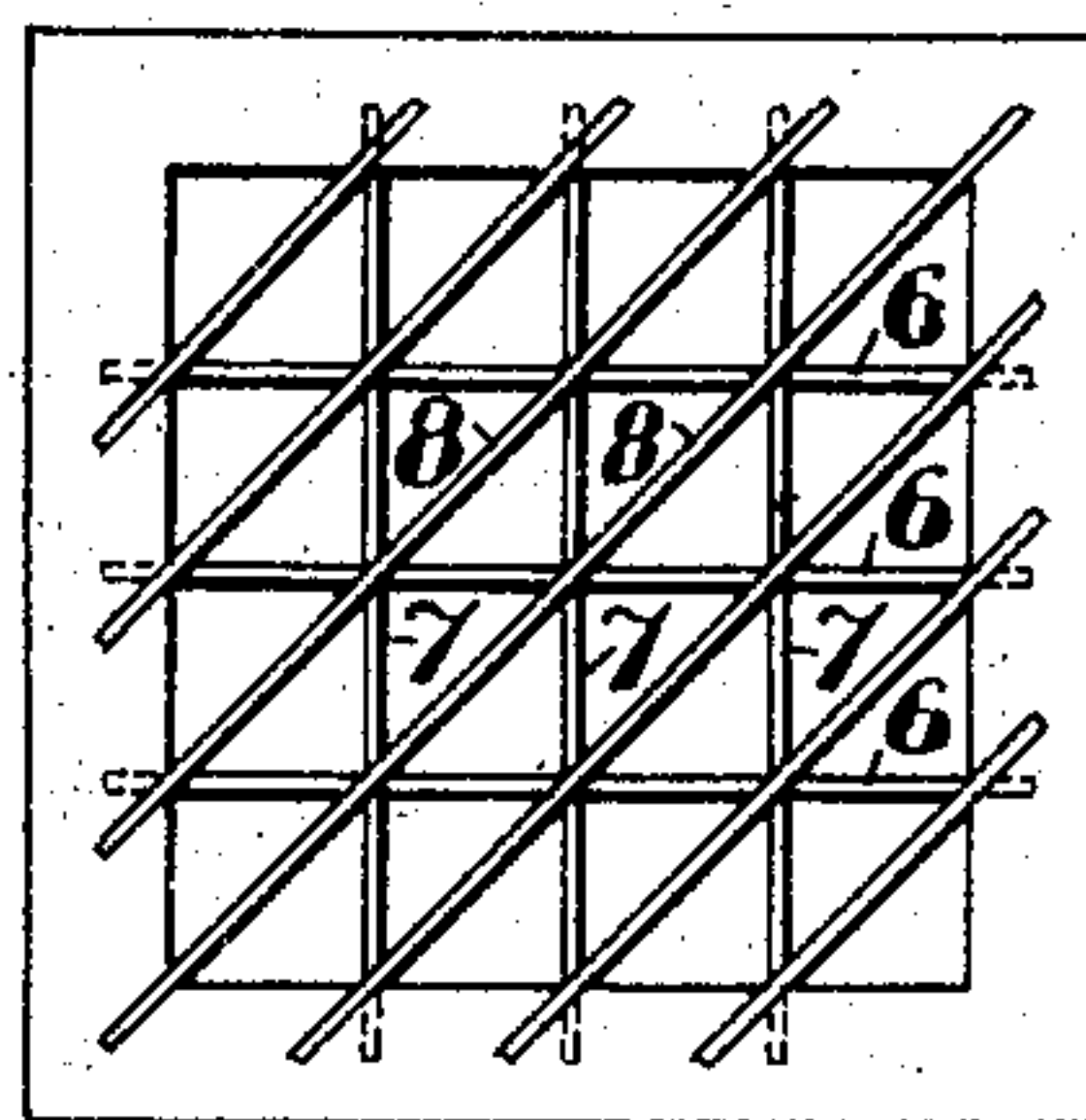


Fig. 6.



Witnesses:

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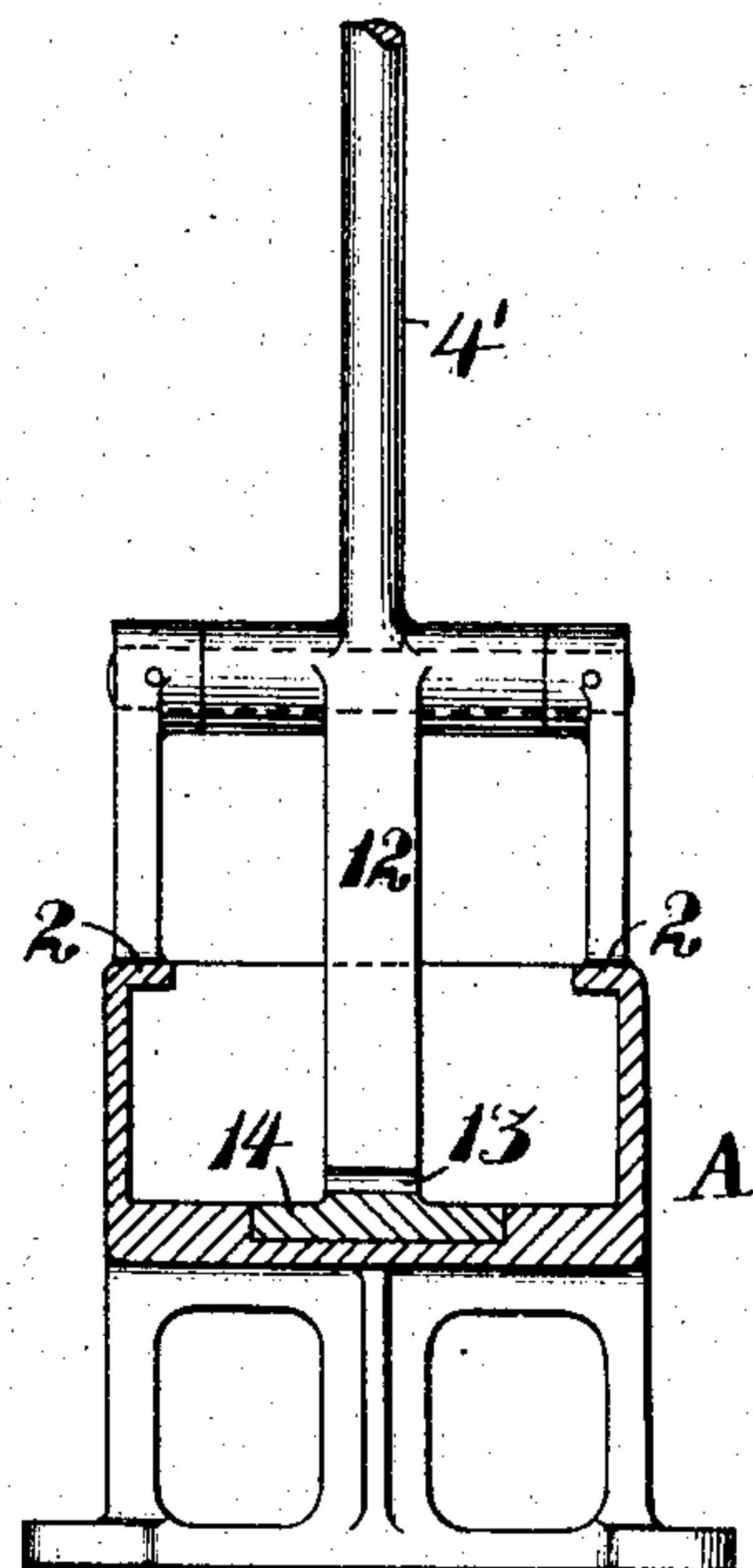
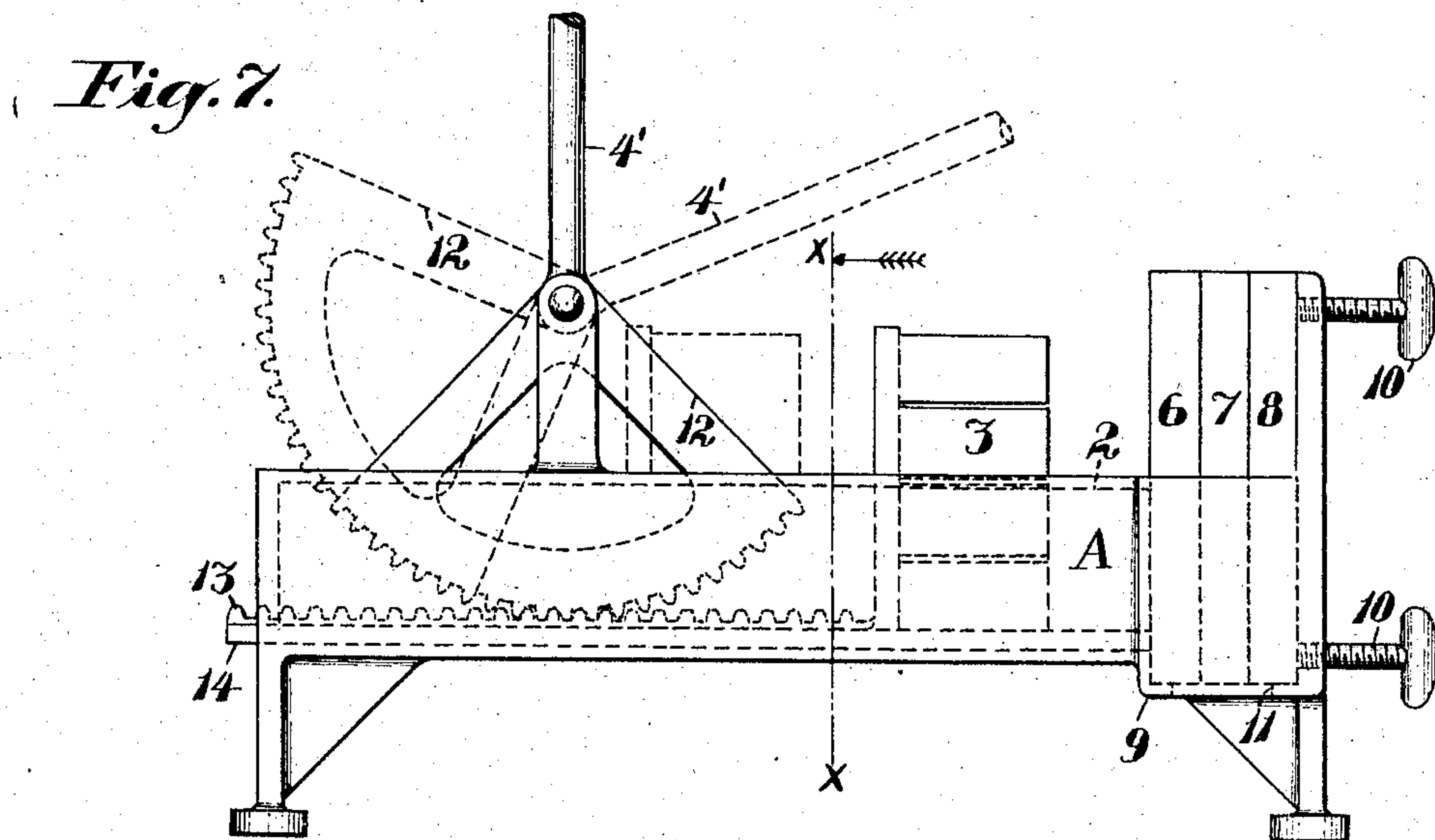
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2 SHEETS--SHEET 2.



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UNITED STATES PATENT OFFICE.

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A. HANSON, OF SAN FRANCISCO, CALIFORNIA.

POTATO-SLICER.

SPECIFICATION forming part of Letters Patent No. 780,654, dated January 24, 1905.

Application filed March 18, 1904. Serial No. 198,786.

To all whom it may concern:

Be it known that I, HARRY HANSON, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Potato-Slicers, of which the following is a specification.

My invention relates to improvements in fruit and vegetable cutters, and particularly in apparatus for slicing potatoes into long strips, these strips being known when cooked as "French-fried." Its object is to provide a simple practical machine for doing this work whereby a saving in time, labor, and material will be effected and whereby greater uniformity in result will be accomplished than where the work is done by hand.

The invention consists of the parts and the construction and combination of parts, as hereinafter more fully described, having reference to the accompanying drawings, in which—

Figure 1 is a side elevation of my device. Fig. 2 is a section on line *y y* of Fig. 1. Fig. 3 is an end view of my device. Fig. 4 is a view showing two sets of knives arranged to cut a strip square in cross-section. Fig. 5 shows two sets of knives arranged to cut a strip diamond shape in cross-section. Fig. 6 shows three sets of knives arranged to cut a strip triangular in cross-section. Fig. 7 is a modification. Fig. 8 is a section on line *x x* of Fig. 7.

A represents a frame of suitable size and material, open at the top and inclosing a trough for the article to be sliced and provided with the inwardly-turned top edges or flanges 2, serving as guides for the reciprocating plunger 3. Any suitable means—as, for instance, the hand-lever 4—may be employed to reciprocate the plunger. A spring 5 tends to hold the plunger in normally retracted position. The potato to be sliced is dropped into the trough in front of the plunger and by means of the latter is shoved up against a set of knives 6 7 8. These sets of knives are each mounted in separate removable rectangular frames, which are adapted to be inserted into a suitable holder 9 in the end of the frame. This holder has front and rear guide-walls separated sufficient to receive the three sets

of knives, and the rear wall of the holder has an opening corresponding to the knife area for the egress of the sliced material. Any two sets of knives may be used conjunctively or the three may be used simultaneously, according to the desired shape in cross-section of the potato-strip to be cut. For instance, if a potato-strip square in cross-section, as per Fig. 4, is desired the knives 6 7, disposed at right angles to each other, only would be used, being locked in position in the machine by means of the screw-followers 10. If a strip diamond shape in cross-section, as per Fig. 5, is desired, one or the other of knives 6 7, together with knife 8, would be used. The use of the three knives conjunctively produces a strip triangular in cross-section, as per Fig. 6. The screws 10, pressing from the rear, force the forward knife always close up against the front wall of the holder, so that the length of the reciprocation of the plunger may always be the same whether two or three knives were used.

The plunger is vertically and transversely slotted, as shown, to allow it to enter the interstices of knives 6 7 and push the strips through and out of interference with the strips of succeeding potato insertions. The bottom of the holder 9 is perforated, as at 11, to let the juices escape.

The inwardly-turned flanges 2 of the frame serve not only as guides for the plunger, but act to prevent the article to be sliced from jumping out of the trough.

In Fig. 7 I have shown a modification of the invention in which the same principle of a flanged frame, slotted plunger, and a plurality of independently-removable separable sets of knives are employed, but in which I substitute for the means before described to reciprocate the plunger a hand-lever 4', mounted above the trough and having a toothed segment 12, arranged to engage at each reciprocation a rack 13 on the plunger-rod 14. The latter is slidable in suitable guides in frame A to prevent its turning. The plunger can easily be removed by taking out the knives and throwing the lever 4' to the position shown in dotted lines to disengage the segment 12 from the rack 13.

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

1. In a potato-slicer the combination of a
5 plunger, a frame open at the top and inclosing
a trough for the article to be sliced said frame
having its sides provided with horizontal
guides, a holder rigid with one end of the
frame and having front and rear guide-walls
10 said rear wall having an opening for the egress
of sliced material, a series of vertical open-
center frames in the holder and arranged in
horizontal series, a single set of parallel
knives secured across the opening of each
15 frame whereby the several sets are presented
in intersecting planes in the path of the plun-
ger, screws passing through the rear guide-
wall of the holder and removably securing the
entire series or any less number of frames
20 in the holder, and means for operating the
plunger.

2. In a vegetable-cutter the combination
with a plunger of a trough-like support and
a holder communicating therewith and includ-
ing a bottom, vertical sides and front and rear 25
walls, independent vertical open-center frames
arranged in horizontal series and provided
with sets of knives arranged in intersecting
planes in the path of the plunger, screw-fol-
lowers passing through the rear wall of the 30
holder and adapted to clamp the frames
against said front wall, and means including
a lever, a toothed segment carried thereby
and a rock-bar fixed to the plunger, for actu-
ating the latter. 35

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

HARRY HANSON.

Witnesses:

CLAY P. GOODING,
S. H. NOURSE.