

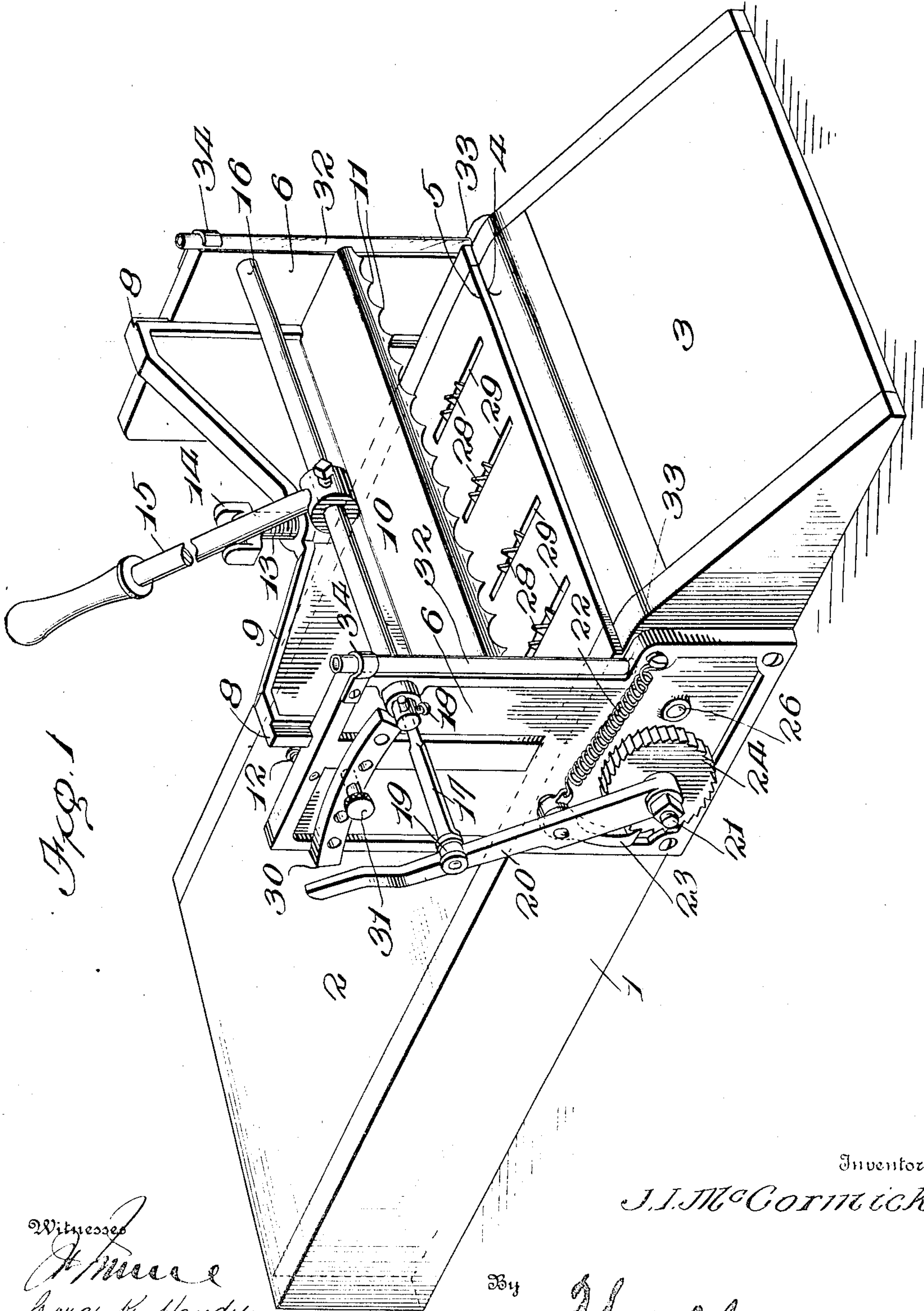
J. I. McCORMICK.
SLICING MACHINE.

APPLICATION FILED SEPT. 18, 1908.

Patented July 13, 1909.

2 SHEETS—SHEET 1.

927,747.



Witnesses
[Signature]
Cora W. Handy

Inventor
J. I. McCormick

By *[Signature]* Attorneys

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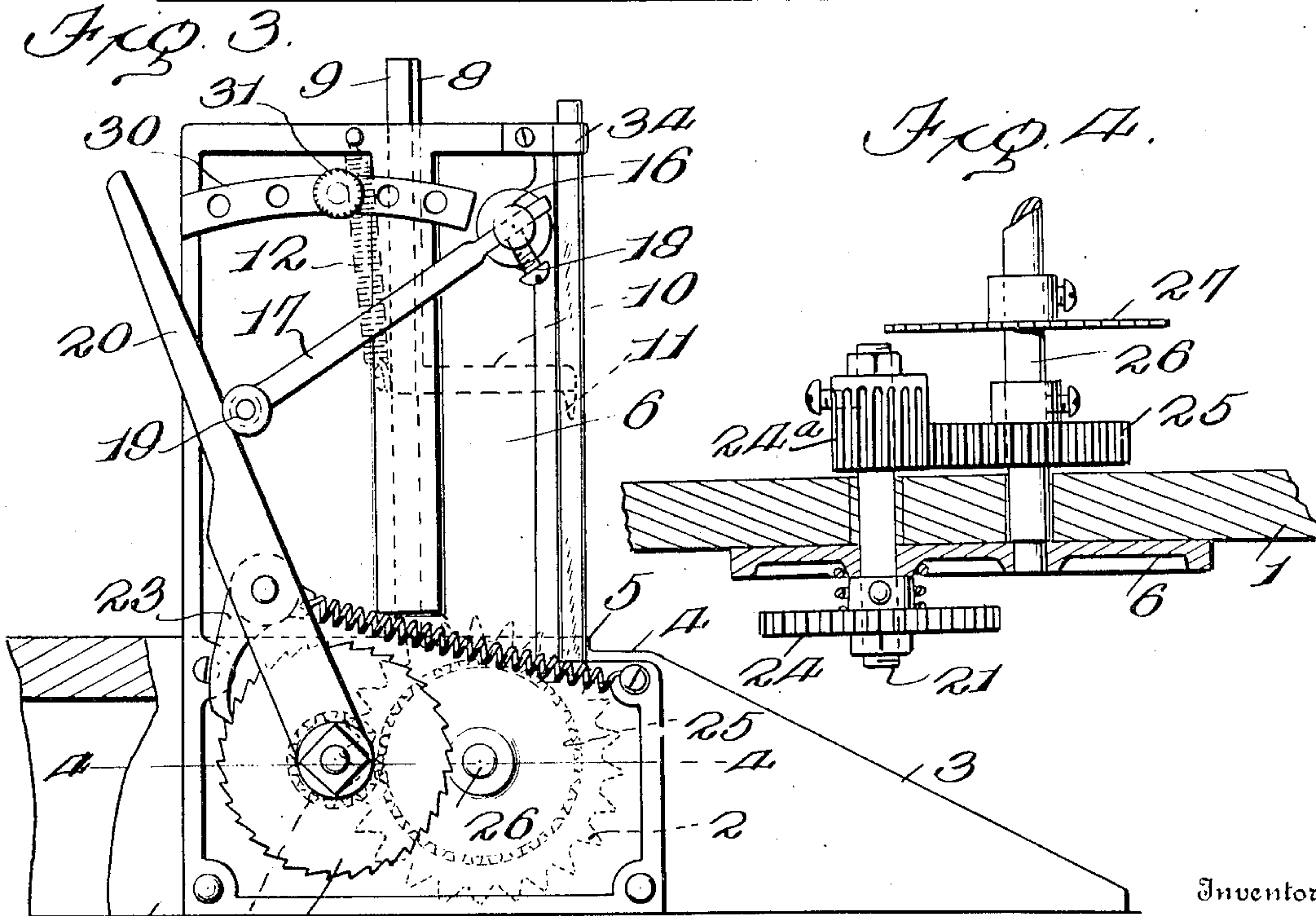
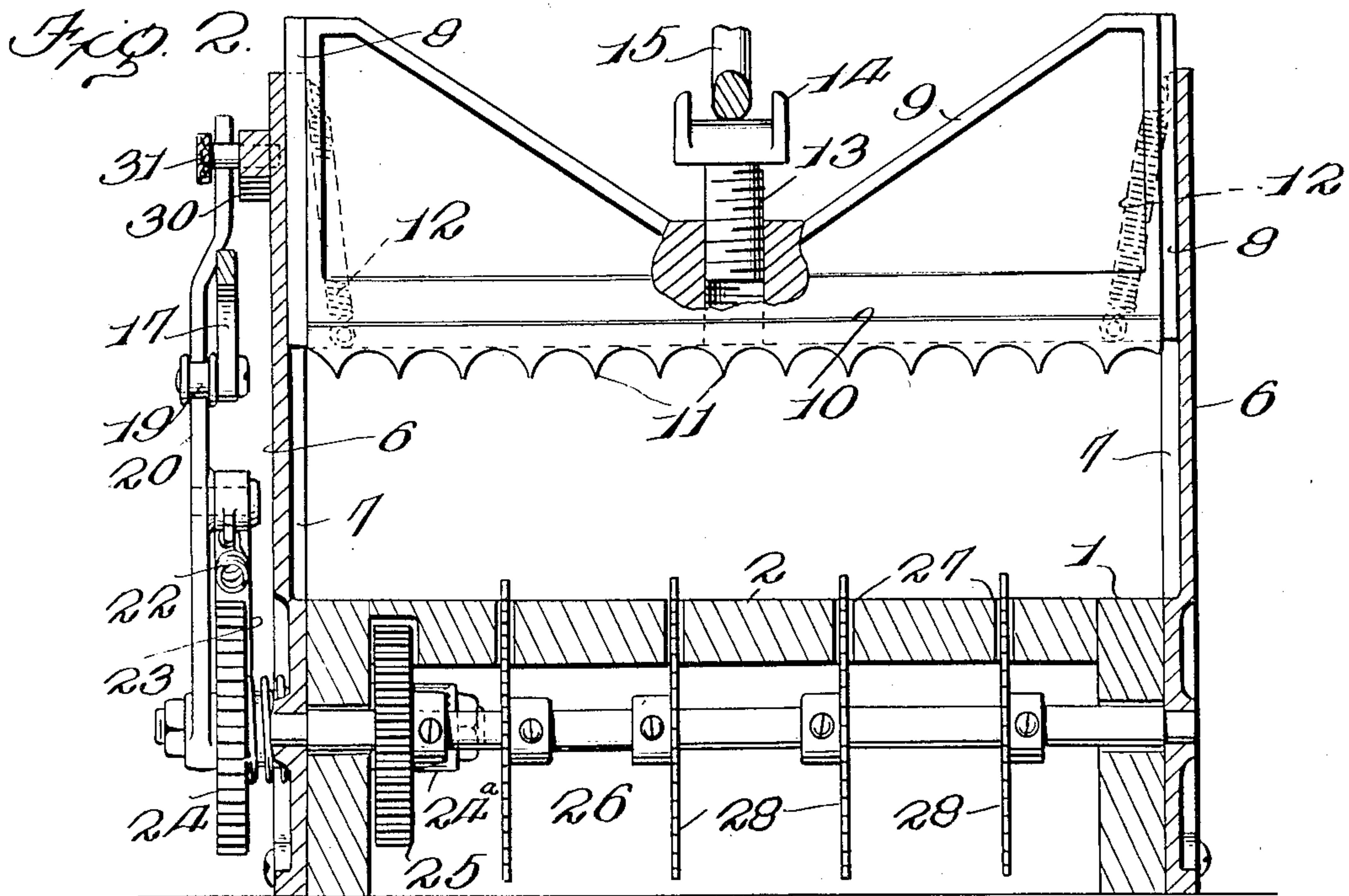
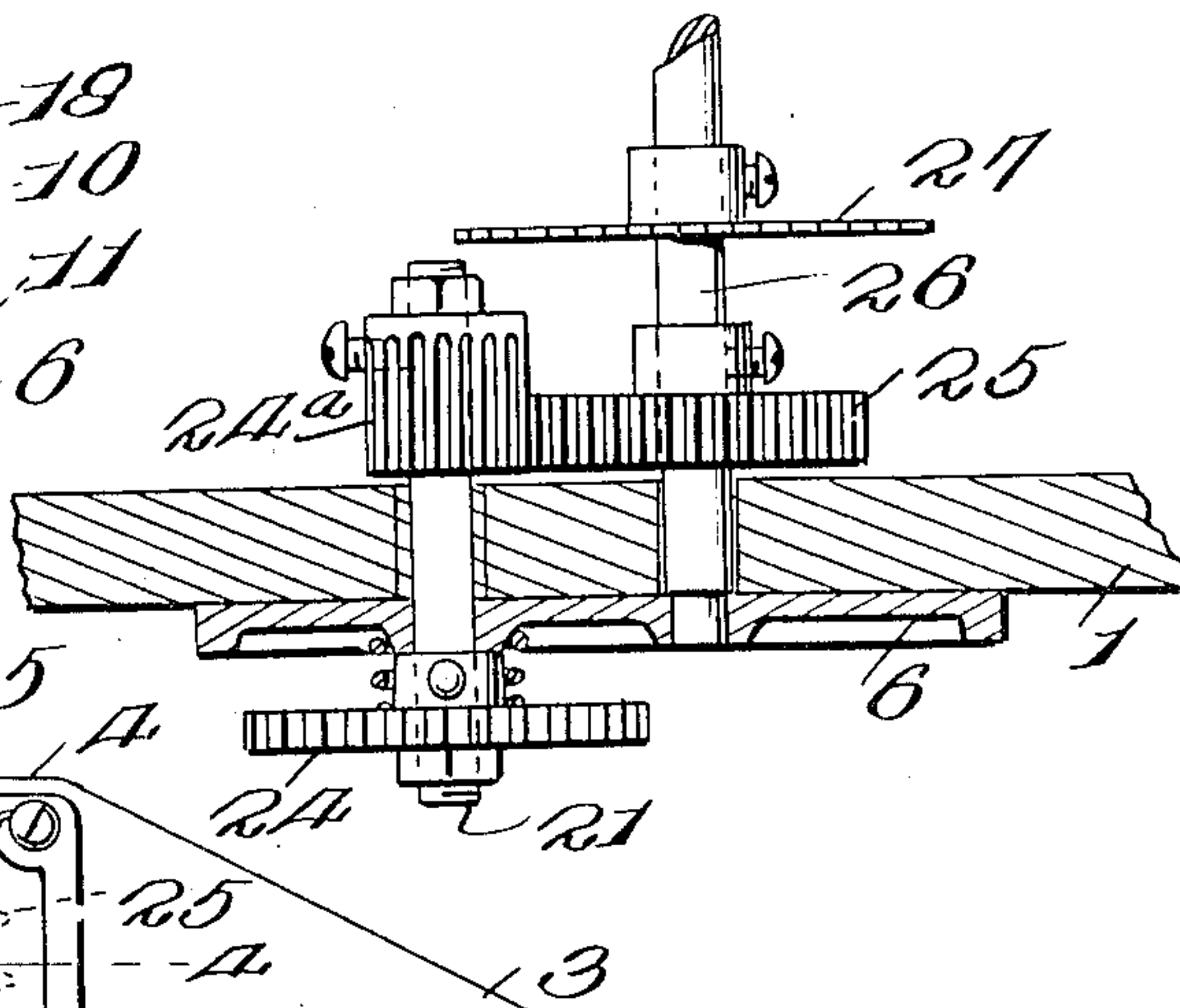


FIG. 4.



Inventor

J. I. McCormick

Witnesses

Wm. H. Handy
Wm. H. Handy

By

Wm. H. Handy
Wm. H. Handy, Attorneys

UNITED STATES PATENT OFFICE.

JOHN I. McCORMICK, OF LOS ANGELES, CALIFORNIA.

SLICING-MACHINE.

No. 927,747

Specification of Letters Patent.

Patented July 13, 1909.

Application filed September 18, 1908. Serial No. 453,579.

To all whom it may concern:

Be it known that I, JOHN I. McCORMICK, citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Slicing-Machines, of which the following is a specification.

This invention comprehends certain new and useful improvements in apparatus for use in slicing bread or meats such as ham or bacon, and the invention has for its object, a simple, durable and efficient construction of apparatus of this character which will clamp and release the article being cut at each slicing operation, and which will also slide the article forwardly after each slicing operation and immediately subsequent to the movement of the clamping means to the released position. And a further object of the invention, is an apparatus of this type embodying an improved construction and arrangement of parts whereby the stroke of the clamp may be easily regulated according to the thickness of the meat or like being cut and whereby also, the stroke of the feeding device may be regulated so as to secure thick or thin slices.

With these and other objects in view, as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a perspective view of an apparatus constructed in accordance with my invention; Fig. 2 is a transverse sectional view; Fig. 3 is a side elevation of the front portion of the apparatus; and, Fig. 4 is a detail horizontal section of one side of the apparatus.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawings, the numeral 1 designates the base of my improved slicing machine, said base comprising an elevated relatively stationary bed 2 formed with a sloping front end 3 and with a recess 4 at the upper end of the sloping portion 3, said recess defining a forwardly facing cutting edge

5. Standards or brackets 6 are secured to the sides of the base 1 and project upwardly therefrom said standards being formed in their opposing faces with channels 7 in which the recessed side edges or guide rails 8 of a plate 9 are mounted for movement. This plate constitutes a portion of the clamp which also embodies a horizontally disposed plate 10 which is formed at its front edge with a series of teeth 11 designed to engage the meat or other article to be cut immediately back of the cutting edge 5 of the base.

12 designates springs that are secured to the clamp and to the standards so as to normally hold the clamp at the upper limit of its movement and to return it to its upper position after it has been depressed for a clamping action.

The plate 9 of the clamp carries a stroke regulating screw 13 which is formed with a forked head 14 designed for engagement by a handle 15, the said handle serving to force the clamp downwardly into engagement with the meat or the like. If the meat, for instance, be thick, the screw 13 is lowered in its socket so as to lengthen the stroke of the clamp. The actuating handle 15 of the clamp is mounted upon a transversely extending shaft 16 that is journaled to turn about its longitudinal axis in the upper ends of the standards 6. This shaft 16 is provided at one end with a crank arm 17 adjustably held thereon by means of a set screw 18 as shown. The crank arm 17 extends downwardly and carries at its free lower end a roller 19 designed to engage a lever 20. This lever 20 is mounted in and extends upwardly from a stub shaft 21 journaled on one of the standards 6, and is connected to a pull spring 22 exerting a tension on the lever 20 to swing it in a forward direction. The said lever carries a push pawl 23 which is designed to engage a ratchet wheel 24 mounted rigidly on the stub shaft 21. Within the base, said shaft 21 carries a pinion 24^a which meshes with a gear wheel 25 secured to a transversely extending feed shaft 26 journaled in standards near the lower ends thereof. A series of feed disks 27 is mounted upon the shaft 26, said disks being provided with a continuous set of spurs 28 designed to project upwardly through slots 29 formed in the bed 2 of the base so as to continuously engage the article being sliced.

30 designates a stroke regulating bar that is secured to one of the standards 6, and

which is formed with a series of holes any one of which is designed to receive a pin 31 so as to limit to different degrees the forwardly swinging movement of the lever 20.

5 Rods 32 preferably of glass are secured to the front edges of the standards 6 so as to provide a bearing surface for the knife which will not dull it, said rods, in the present instance, having their lower ends fitted
10 in sockets 33 formed in the standards and being secured at their upper ends to the standards by means of metallic straps 34.

For the purpose of describing the practical operation of my improved apparatus, it may
15 be assumed that bacon is to be sliced. The bacon is placed on the base 1 with the rind down so that the spurs 28 of the feed disks or wheels 27 penetrate the rind and secure a grip upon the bacon. As the operator
20 presses the handle 15 downwardly with one hand, the clamp is pressed into engagement with the bacon and the knife is then so pressed against the rods or tubes 32 as to cut through to the rind. After each slice is
25 cut, the handle 15 is released whereupon the springs 12 raise the clamp and release it from the bacon. It is to be particularly noted that in this movement of the clamp to the released position, the bacon is released be-
30 fore the crank arm 17 comes into engagement with the lever 20 to swing the same in a direction to turn the feed disks 27 and thereby feed the bacon forwardly for the next slice. Obviously the pin 31 may be
35 changed from one hole of the stroke regulating bar 30 to another so as to vary the swing of the lever 20 and thereby regulate the forwardly feeding movement of the bacon and the thickness of the slices that are
40 formed.

It is to be noted that with the construction and arrangement of the parts illustrated in the accompanying drawings and described above, it is not necessary to remove the rind
45 from the bacon preparatory to slicing the same which would involve a loss to the merchant, and the apparatus does not require that the rind be cut through at every operation of the knife. It will also be understood
50 that my apparatus operates to cut the whole piece in uniform slices regardless of length without the necessity of any readjustment, the rind being left on, until it is desired that it be removed.

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

1. An apparatus for use in slicing, comprising a base, standards secured thereto and projecting above the same, a clamp mounted
60 to slide up and down in said standards, a stroke regulating screw mounted in said clamp, a handle arranged to engage said screw to move the clamp downwardly, means for moving the clamp upwardly and a sup-
65 port for said handle.

2. An apparatus for use in slicing, comprising a base, standards secured to said base and projecting above the same, a clamp mounted to move up and down in said standards, a stroke regulating screw mounted in said
70 clamp and formed with a forked head, a handle designed to engage the head and move the clamp downwardly, a support for the handle, and means for moving the clamp upwardly. 75

3. An apparatus for use in slicing, comprising a base, standards secured thereto and projecting above the same, a clamp mounted to slide up and down in said standards, a handle arranged to move the clamp downwardly, 80 and an adjustable engaging connection between the clamp and the handle for the purpose specified.

4. An apparatus for use in slicing, comprising a base, standards secured thereto, a
85 clamp mounted to move up and down in said standards, means for moving said clamp, said means embodying a shaft journaled in said standards, feed devices mounted in the base and designed to engage the article placed
90 thereon, said feed devices including a rotatable shaft, means for turning said shaft intermittingly, said means consisting of a ratchet, a pawl engaging said ratchet, a lever carrying said pawl, and a crank arm secured to the
95 first named shaft and arranged to engage said lever upon the movement of the first named shaft in a direction to release the said clamp.

5. An apparatus for use in slicing, comprising a base, standards secured thereto, a
100 clamp mounted to move up and down in said standards, means for moving said clamp, said means embodying a shaft journaled in said standards, feed devices mounted in the base and designed to engage the article
105 placed thereon, said feed devices including a rotatable shaft, means for turning said shaft intermittingly, said means consisting of a ratchet, a pawl engaging said ratchet, a lever carrying said pawl, and a crank arm secured
110 to said first named shaft and provided with a roller arranged to engage said lever upon the movement of the first named shaft in a direction to release the clamp.

6. An apparatus for use in slicing, comprising a base, standards secured thereto, a
115 clamp mounted to move up and down in said standards, feed devices mounted in the base and designed to engage the article placed thereon, means for intermittingly actuating
120 said feed devices, said means including a lever, means tending to pull the lever forwardly, adjustable means designed to limit the forward movement of said lever at different positions from the shaft, and a crank
125 arm carried by the shaft and arranged to engage the lever upon the movement of said shaft in a direction to release the clamp.

7. An apparatus for use in slicing, comprising a base, standards secured thereto, a
130

clamp mounted to move up and down in said standards, means for moving said clamp downwardly, said means embodying a shaft located in said standards, a crank arm carried by said shaft, feed devices mounted in the base and designed to engage the article placed thereon, said feed devices including a rotatable shaft, a gear wheel secured to said last named shaft, a pinion meshing with said gear wheel, a stub shaft on which the pinion is secured, said stub shaft being journaled in the base, a ratchet wheel rigidly mounted upon said stub shaft, a lever fulcrumed on

said stub shaft, a pawl carried by said lever, and means tending to pull the lever forwardly, the crank arm being arranged to engage the lever and swing it rearwardly upon the movement of the first named shaft in a direction to release the clamp. 15

In testimony whereof I affix my signature 20 in presence of two witnesses.

JOHN I. McCORMICK. [L. S.]

Witnesses:

W. E. COULAM,
V. G. BETTLYOR.