

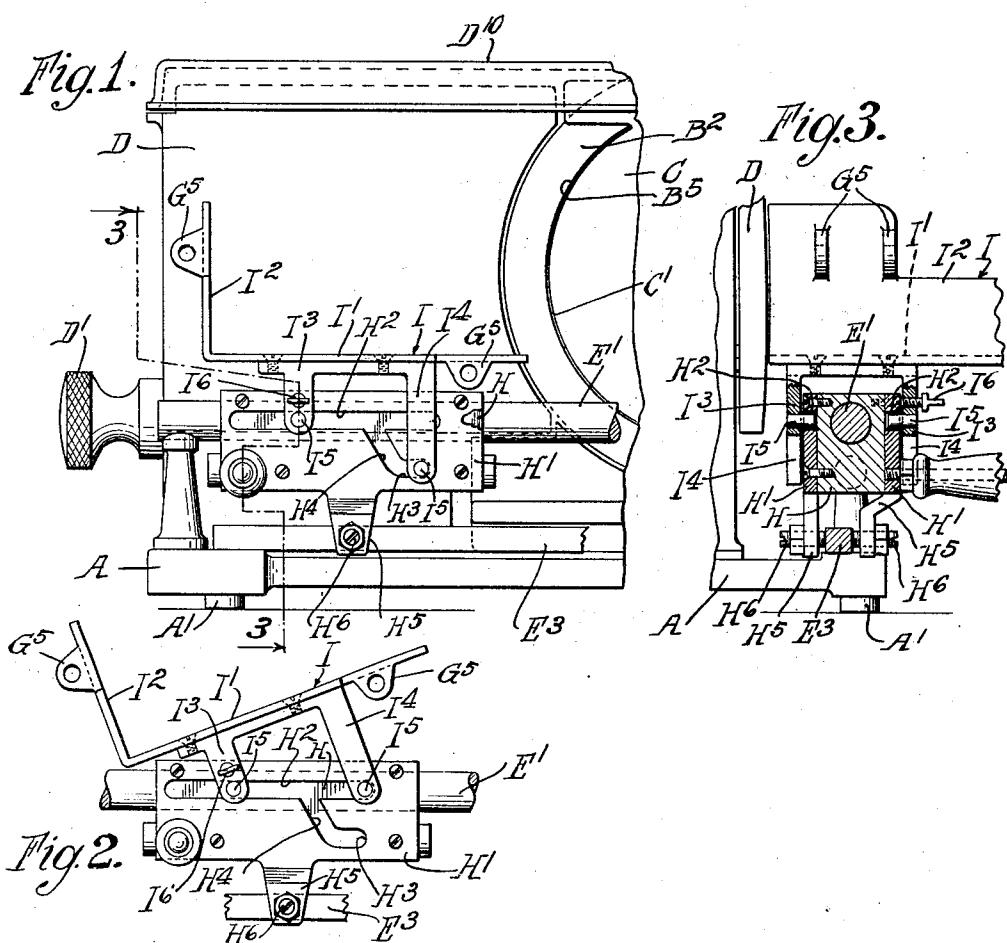
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## SLICING MACHINE

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# UNITED STATES PATENT OFFICE

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## SLICING MACHINE

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My invention relates to a slicing machine and particularly to a slicing machine in which is employed a rotary knife, which may be motor driven, with which is used a work support guided for movement across the face and past the cutting edge of the knife. One object of my invention is to provide improved means for adjusting the angle of said work support. Other objects will appear from time to time in the course of the specification and claims.

I illustrate my invention more or less diagrammatically in the accompanying drawings, wherein—

Figure 1 is a front elevation;

Figure 2 is a partial front elevation;

Figure 3 is a section on the line 3—3 of Figure 1.

Like parts are indicated by like symbols throughout the specification and drawings.

A generally indicates any suitable base or frame member, mounted upon the supports A<sup>1</sup>. B<sup>2</sup> is a rotary knife which may be rotated by any suitable means not herein shown.

C generally indicates the guard plate for the front of the knife, the arcuate edge of which, C<sup>1</sup>, penetrates the recess B<sup>5</sup> in the front of the knife.

D generally indicates a gauge plate structure which may be moved, in any suitable manner, for example by rotation of the control knob D<sup>1</sup>, toward and away from the cutting plane in order to adjust the thickness of the slices.

I illustrate the carriage H, slideable along the track E<sup>1</sup> which is provided with side plates H<sup>1</sup> H<sup>1</sup>. Formed in such plate is an upper slot H<sup>2</sup>, herein shown as horizontal, a short lower slot H<sup>3</sup>, and an inclined connecting slot H<sup>4</sup> extending from the slot H<sup>2</sup> intermediate its ends. The plates H<sup>1</sup> are provided with depending portions H<sup>5</sup> in guiding relationship with the guide track E<sup>3</sup>. Adjustment of the carriage is made possible by means of the adjusting screws H<sup>6</sup>.

Mounted on the carriage H is the meat support generally indicated as I with the main meat supporting member I<sup>1</sup> and the flange I<sup>2</sup>. Depending from the bottom of the member I<sup>1</sup> are two pairs of arms I<sup>3</sup> I<sup>4</sup>,

of unequal length there being a pin I<sup>5</sup> at the end of each said arm, such pins being positioned to penetrate the above mentioned slots. I<sup>6</sup> is a locking or set screw which may be mounted on one of the arms.

It will be realized that whereas I have described and shown a practical and operative device, nevertheless many changes might be made in the size, shape, number and disposition of parts without departing from the spirit of my invention. I therefore wish my description and drawings to be taken as in a broad sense illustrative and diagrammatic rather than as limiting me to my specific showing.

The use and operation of my invention are as follows:

In slicing machines of the type herein described it is desirable to have a work support, movable with the carriage across the face of the knife, which support is adjustable in relation to the carriage. Some articles, such as bread, bacon and the like are best sliced when resting upon a broad horizontal surface such as that of the member I<sup>1</sup>. When the meat support is tilted in the position in which it is shown in Figure 2, the space is insufficient to receive a piece of bacon for de-rinding or a piece of bread for de-crusting. The length of the bacon or of the bread loaf is such that if it is positioned on the carriage when the carriage is in the tilted position, the upper portion of the bacon or bread engages the cover member D<sup>10</sup> and cannot be moved into cutting engagement with the knife.

On the other hand, as when cutting small articles or more or less soft articles such as sausage, it is advantageous to employ a trough which is V-shaped in cross-section, a trough such as is provided by the work support when it is in the tilted position, as shown in Figure 2. I obtain both results by providing a work support which may, at the election of the operator, be positioned in horizontal position or in inclined position.

When the set screw I<sup>6</sup> is loosened, the support may be tilted into the position in which it is shown in Figure 2, with all of the pins I<sup>5</sup> penetrating the upper slot H<sup>2</sup>, or the pins on the long arms I<sup>4</sup> may be guided along the in-

clined slot H<sup>4</sup> to rest finally in the lower slot H<sup>3</sup>. The screw I<sup>6</sup> serves to lock the support in position.

In some of the claims I have employed the term "tilting" or "tiltable." By this I wish to be understood as meaning the characteristic movement of the work support as shown in the specification and drawings, and which the work support may be moved to different angles, but is not rotatably mounted in the sense that the support is rotated about an axis.

I claim:

1. In a slicing machine including a knife and means for actuating it, a carriage and means for guiding the carriage past the cutting edge of the knife, a work support mounted upon said carriage, arms depending from said work support, opposed to the opposite sides of said carriage, the sides of said carriage being provided with slots, members on said arms adapted to penetrate said slots, said slots including a branch at one end.

2. In a slicing machine including a knife and means for actuating it, a carriage and means for guiding the carriage past the cutting edge of the knife, a work support tiltably mounted upon the carriage, a plurality of supporting and connecting members extending between said work support and said carriage, at different points therealong, and means for varying the effective extension of said supporting members upwardly from the carriage, including a Y-shaped slot in the side of the carriage, one of the connecting members being adapted to penetrate the main stem of the Y, and another being adapted to penetrate selectively either branch of the Y.

3. The structure of claim 2 characterized by the employment of a generally horizontal slot in the side of said carriage, the supporting members being adapted to penetrate said slot, said slot being provided with a branch, one of said members being adapted selectively to penetrate either the main slot or the branch, the branch being at a different level than the slot.

4. The structure of claim 2 characterized by the employment of a generally horizontal slot in the side of said carriage, the supporting members being adapted to penetrate said slot, said slot being provided with a branch, one of said members being adapted selectively to penetrate either the main slot or the branch, the branch being at a different level than the slot, the supporting members being of unequal length, the narrow member being adapted to penetrate either the main slot or the branch, the shorter member being limited to penetration of the main slot.

60 Signed at Chicago, county of Cook and State of Illinois, this 21st day of June, 1929.

WALLACE B. WOLFF.