

J. MORAL.  
BREAD CUTTER.  
APPLICATION FILED DEC. 27, 1911.

Patented Jan. 28, 1913.

2 SHEETS-SHEET 1.

1,051,509.

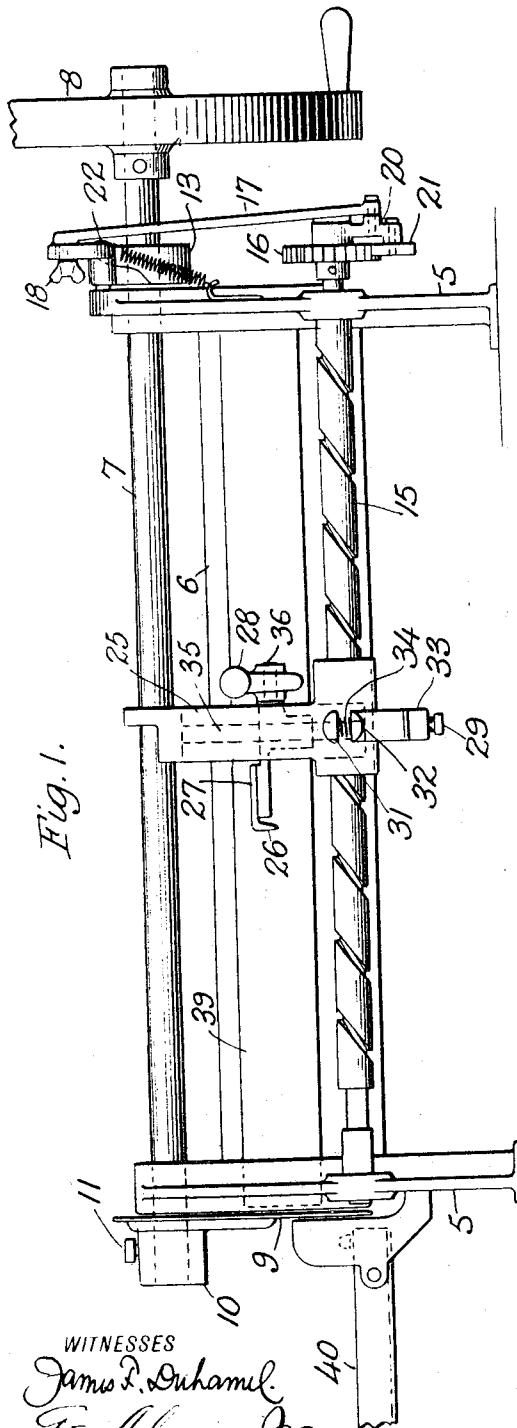


Fig. 1.

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F. E. Ackman Jr.

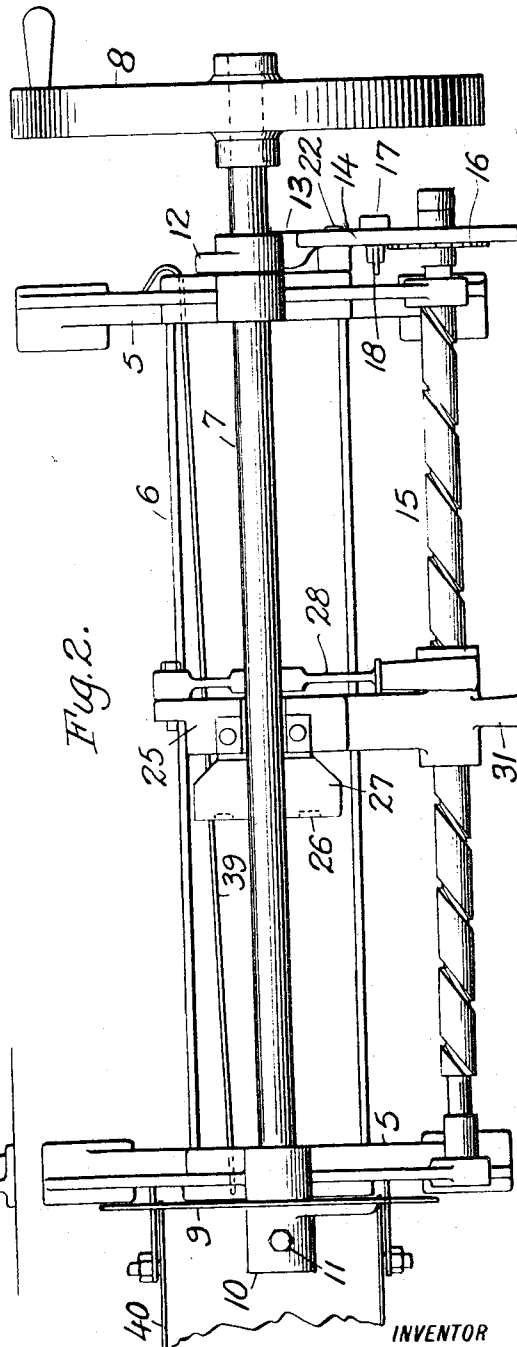


Fig. 2.

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Fig. 4.

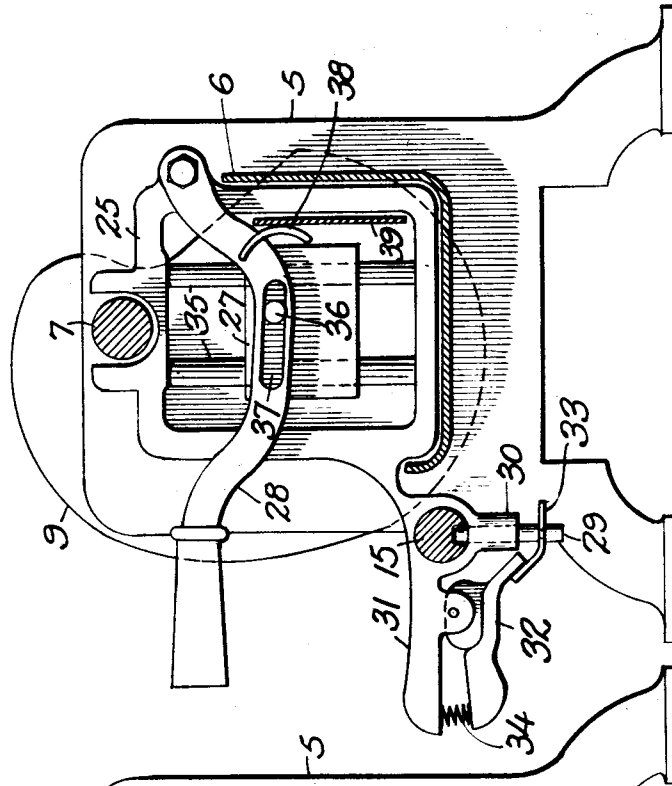
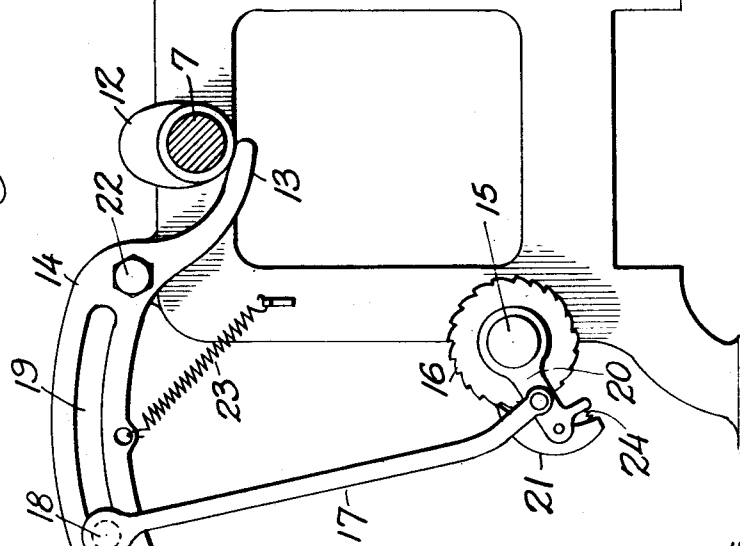


Fig. 3.



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# UNITED STATES PATENT OFFICE.

JULIUS MORAL, OF YONKERS, NEW YORK.

## BREAD-CUTTER.

1,051,509.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed December 27, 1911. Serial No. 668,120.

*To all whom it may concern:*

Be it known that I, JULIUS MORAL, a citizen of the United States, residing at Yonkers, in the county of Westchester and State of New York, have invented new and useful Improvements in Bread-Cutters, of which the following is a specification.

This invention relates to bread cutters and more especially to automatic machines in which a loaf of bread is placed and fed forward as the machine moves to be cut into slices as will be more fully described in the following specification, set forth in the claims and illustrated in the drawings, wherein,

Figure 1 is a front view of the machine. Fig. 2 is a plan view. Fig. 3 is an enlarged end view with the fly wheel removed. Fig. 4 is an enlarged cross sectional view.

The machine consists of a frame having end pieces 5 and a connecting side and bottom piece 6 in which the bread is carried in the act of cutting. Journaled in the upper side of the end pieces 5 is a shaft 7 carrying a hand wheel 8 or a pulley for power operation as may be desired and this shaft carries at its rear end the knife 9 secured to the shaft by means of the hub 10 and screw 11. The front end of the shaft carries a cam 12 which bears upon the toe 13 of a slotted lever 14, pivoted in the end piece and as the cam 12 is rotated the lever 14 is rocked. Journaled in each of the end pieces 5 is a screw 15 having at its outer end a ratchet wheel 16 by which it is rotated. The means by which the ratchet wheel and screw are turned is best shown in Fig. 3 where it will be seen that a link 17 is carried at the outer end of the lever 14 and may be adjusted thereon by means of the screw and nut 18, the former passing through the slot 19 so that the point of union may be adjusted in order to secure a stroke of greater or less degree as the cam 12 is rotated.

As the link 17 reciprocates it operates an arm 20 loosely mounted on the screw 15 and carrying at its outer end the pawl 21 which engages the teeth of the ratchet wheel 16, the number of teeth engaged being determined by the adjustment of the link with relation to the pivot 22 of the lever. The lever has a spring 23 to throw it downward while the pawl 21 also is provided with a spring 24 to keep it in engagement with the wheel 16. The bread is placed in the rear

end of the frame and back of a carriage 25 where it is engaged by prongs 26 of a plate 27 pressed downward by means of a slotted lever 28 which is pivoted at the rear end of the carriage. The carriage is fed along by means of the screw 15 and a bolt 29, best shown in Fig. 4, enters the thread of the screw and plays through the hub 30, extending from a handle 31 which is used to control the carriage. The handle 31 has pivoted to its lower side a lever 32 having at its outer end a yoke 33 which straddles the bolt 29 and removes it from the thread of the screw when it is desired to remove the carriage to the front end of the frame, a spring 34 serving to retain the bolt in the screw thread, while the carriage is moving along the frame. The carriage 25 is provided with bars 35 on which the plate 27 travels, and the latter has a pin 36 extending into a slot 37 in the lever 28. This lever 28 also carries a finger 38 which presses against a spring 39 which is used to bear against the loaf and prevent its displacement or prevent its being fed too fast. When the lever 28 is thrown up, the spring 39 is released so as to hold the loaf of bread until the carriage is adjusted so as to allow the prongs 26 to engage it.

The rear end of the frame is provided with a chute 40 on which the slices of bread are caught and stacked after the process of cutting. This chute may be folded upward when not in use in order to economize in space.

It is obvious that the device may be otherwise modified and its parts arranged as desired without departing from the essential features above described.

What I claim as new and desire to secure by Letters Patent is,—

1. In a bread cutter, the combination with a frame having a base, of a traveling carriage with a bread clamp, a shaft above the base and carrying a rotating knife, a screw at one side of the base and adapted to move the carriage, means for connecting the carriage with the screw, a lever operated by a cam on the knife shaft and a pawl and ratchet rotating the screw and operated by the lever.

2. In a bread cutter, the combination with a base, of uprights, a shaft in the uprights, a revolving knife at the end of the shaft, a hand wheel at the other end of the shaft, a cam on the shaft, a screw at one side of the

base, a carriage supported by the base and moved by the screw, a slide in the carriage and having spurs to hold the bread, a lever to operate the slide, a shifting stud connecting the carriage with the screw, a lever carried by one of the uprights, a ratchet wheel on the screw, a pawl operating the ratchet wheel and a link connecting the pawl with the lever.

10 3. In a bread cutter, the combination with a base having uprights, of a shaft in the uprights and having a knife at one end, a hand wheel at the other end of the shaft, a carriage having a slide with spurs, a lever to  
15 operate the slide, a handle on the carriage,

a lever and stud on the handle, a screw at the side of the base and adapted to receive the stud between its threads, a cam at one end of the shaft, a slotted lever operated by the cam, a ratchet wheel on the end of the screw, 20 a pawl adapted to rotate around the ratchet wheel and a link connected with the lever and operating the pawl.

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

JULIUS MORAL.

Witnesses:

JAMES F. DUHAMEL,  
CHARLES LA RUE.