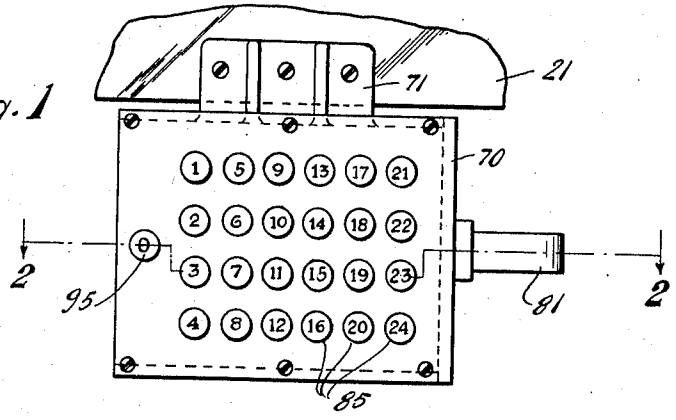
Dec. 2, 1924. 1,517,681

P. J. LUCEY

INDEXING DEVICE FOR SLICING MACHINES

Original Filed June 5, 1922 2 Sheets-Sheet 1

Fig. 1



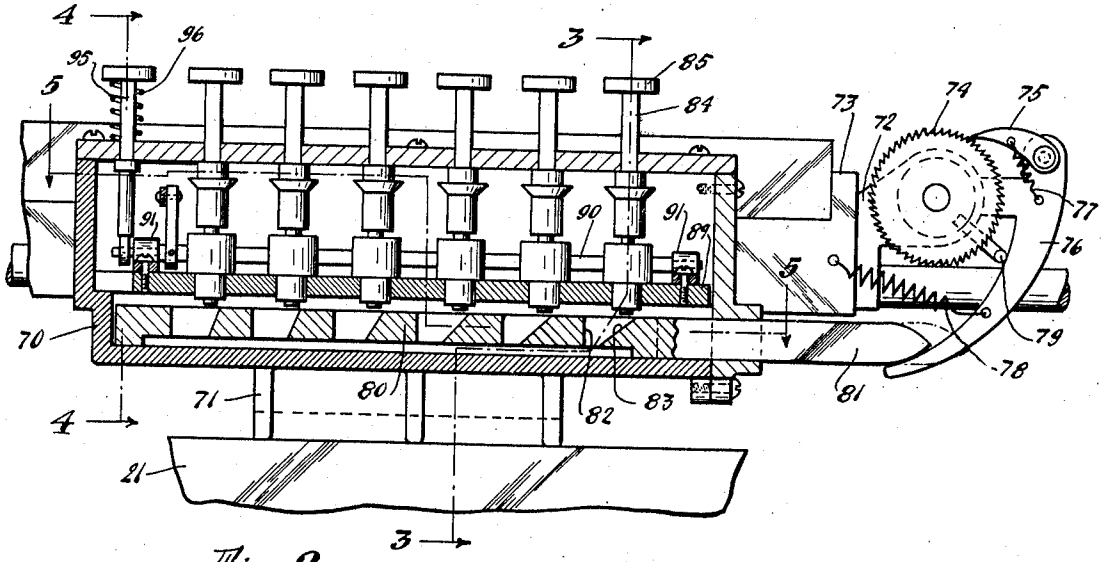
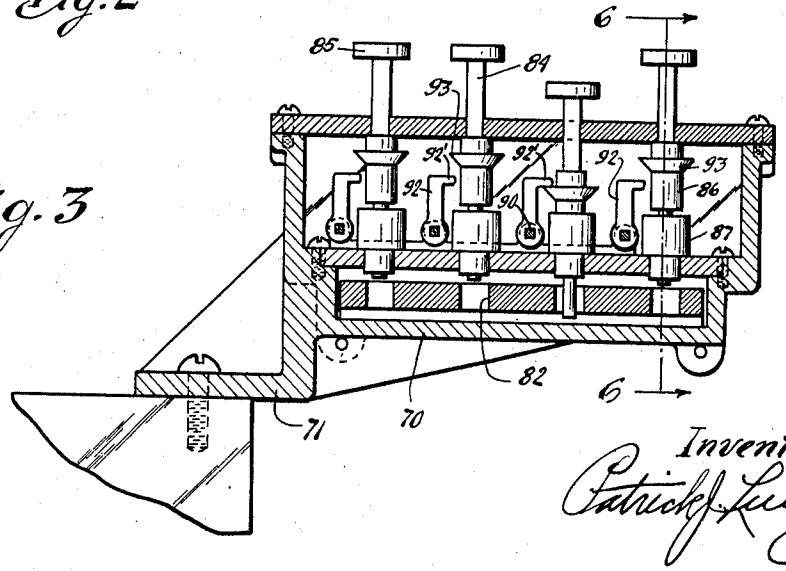


Fig. 2

Fig. 3



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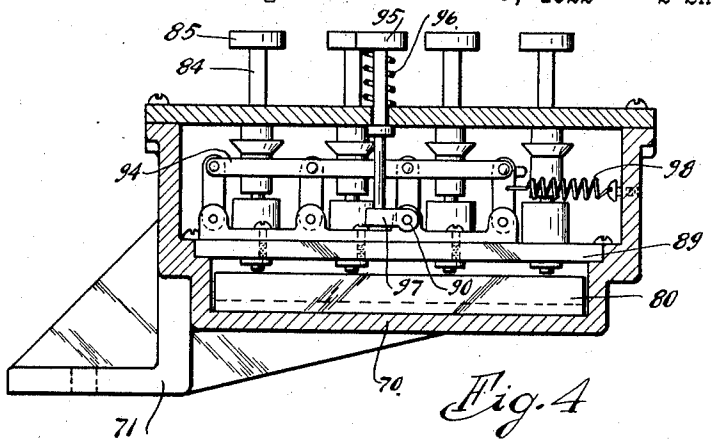


Fig. 4

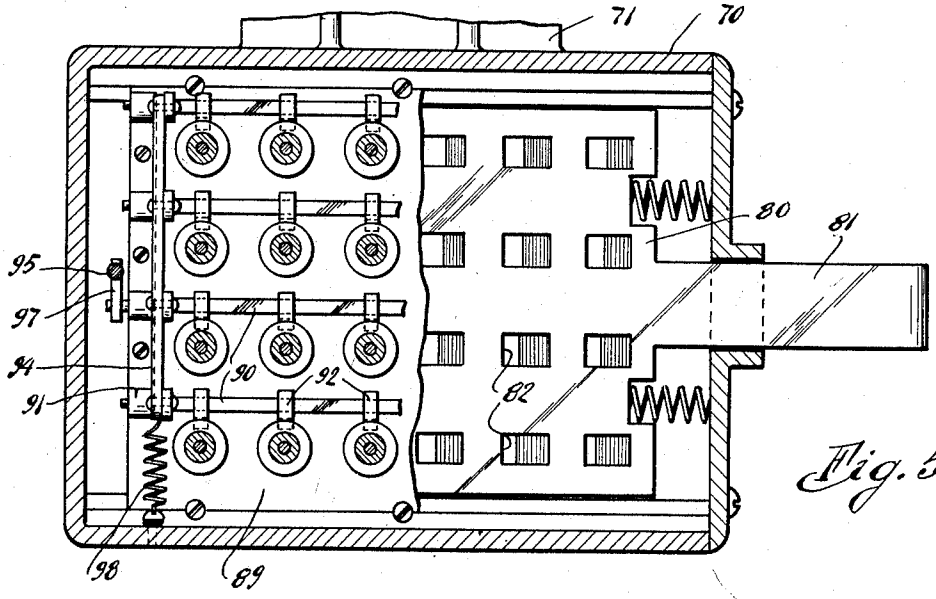


Fig. 5

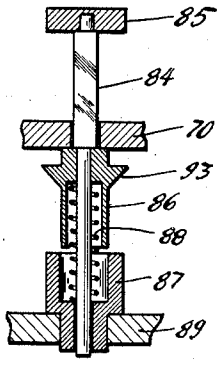


Fig. 6

Inventor:
Patrick J. Lucey

Patented Dec. 2, 1924. 1,517,681

UNITED STATES PATENT OFFICE.

PATRICK J. LUCEY, OF CHICAGO, ILLINOIS, ASSIGNOR TO LUCEY SLICING MACHINE CO., OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

INDEXING DEVICE FOR SLICING MACHINES.

Original application filed June 5, 1922, Serial No. 566,067. Divided and this application filed March 3, 1924. Serial No. 696,711.

To all whom it may concern:

Be it known that I, PATRICK J. LUCEY, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Indexing Devices for Slicing Machines, of which the following is a specification.

My invention relates to new and useful improvements in indexing devices for slicing machines.

This is a division of my prior application for indexing devices for slicing machines, filed June 5, 1922, Serial No. 566,067 which has eventuated into Patent No. 1,489,580, dated April 8, 1924.

With the indexing devices now in use it requires a careful and tedious manipulation, and it is therefore almost impossible to change the index properly while the machine is slicing. It is my main object to provide indexing means for regulating the feed mechanism, in order to cut slices of the desired thickness instantaneously and positively by the mere pressure of the finger, and during the slicing operation.

Another object is to provide an indexing device comprising a plurality of indexing keys either one of which may be operated to actuate the adjusting bar, independently of the other keys.

These and other objects and advantages will become apparent from the following description taken in connection with the drawing, in which,

Fig. 1 is a plan view of the form of indexing device which forms this divisional application.

Fig. 2 is a longitudinal vertical sectional view on line 2—2 of Fig. 1;

Fig. 3 is a vertical cross-sectional view on line 3—3 of Fig. 2;

Fig. 4 is a vertical cross-sectional view on line 4—4 of Fig. 2;

Fig. 5 is a horizontal sectional view on line 5—5 of Fig. 2; and

Fig. 6 is an enlarged detail sectional view of the index key used in this form of my invention.

The form of invention presented in this divisional application differs chiefly from the other forms disclosed in the parent case, above identified, in this, that in the form herewith presented the indexing member is directly engaged by the various indexing keys and actuated thereby, each key moving the member a different distance. This form of construction comprises a housing 70 provided with a bracket 71 for mounting said device on base 21 of a slicing machine, which machine may be of the type illustrated in the parent case, above identified, and which is provided with a bracket 72 extending from a reciprocating table 73 and carrying a pawl wheel 74 which is intermittently moved by a pawl 75 and its attached pawl lever 76 which is swingable on the axis of the pawl wheel 74. A spring 77 holds the pawl on the pawl wheel, and a spring 78 holds lever 76 in its retracted position against the stop arm 79, which extends from the bracket 72.

The adjusting member in the present form of indexing device is in the shape of a rectangular plate 80, slidably mounted on the bottom of the housing 70, and having an extension 81 in the form of a bar for engaging and actuating the pawl lever 76. Said plate is provided with a plurality of sets or rows of cam elements, which in the present form are shown in the shape of openings 82, each of which openings has a beveled side wall or side portion 83, in the direction of the feed mechanism. The degree of slant and therefore the length of the bevel of said side portions gradually varying from one end of the plate to the other, and from one side of the plate to the other, as shown in the drawings. A plurality of similarly constructed keys comprising stems 84, are similarly mounted through opening in the top of said housing, and are provided with suitable marked or numbered heads 85, above said housing. Sleeves 86 are fastened to said stems inside of said housing, and cups 87 are slidably mounted on the lower ends of said stems in position to receive said sleeves therein, the springs 88 normally preventing said sleeves and cups from telescoping. The cups are seated in a plate 89 mounted in the housing above the adjusting member 80. The keys are arranged in rows, and directly above and in position to engage the cam elements or beveled side portions 83 of the opening 82, and alongside each row of keys a rod 90

is mounted in brackets 91 fastened on plate 89, each rod being provided with arms 92 having fingers 92′ for engaging beveled cam flanges 93 on the sleeve 86. The cross rod 94 operatively connects said rods 90, and a release key 95, which is normally retained in released position by a spring 96, engages an arm 97 fastened on one of said longitudinal rods 90 to actuate the cross rod 94 and with it all the rods 90 and their arms 92 and fingers 92′, thereby moving said fingers away from above the flanges 93 in order to release any key that may have been depressed.

In operation, when any of the keys 84 is depressed the beveled flange 93 moves the finger 92′ of arm 92 outward, whereupon spring 98 attached to the cross rod 94 and the housing moves said cross rod 94, the longitudinal rod 90 and thereby the respective arm 92 and its finger 92′ over said flange 93 to lock said key in depressed position. The depression of said key moves its lower end over the corresponding beveled portion 83 and moves the adjusting member horizontally in accordance with the horizontal distance of said beveled portion, in the direction of the feed mechanism and into its adjusted position, and by means of the beveled flanges on the keys and fingers on the rods as above described, the depression of either key will release any other key that may be set, thus providing an adjusting device or indexing device in which only one key will be operated at a time.

In using my indexing device on the well known types of slicing machines, that are already on the market, the usual index bar and actuating means thereof are removed from the machine and my indexing device is attached to the machine in place of said customary indexing mechanism.

It is apparent from the above disclosure that with the use of my indexing device, the feed mechanism is properly operable while the machine is slicing, and immediately and positively, by actuating either one of a number of index keys, by merely depressing such key, without effecting any of the other keys. and also that the indexing device will be modified to fit the various forms of slicing machines; whereas in indexing devices now on the market the index actuating mechanism cannot be operated properly while the machine is slicing because the change of the indexing device requires a gradual turn or gradual movement of the indexing mechanism, from one indexing number or position over the adjacent numbers or positions to arrive at the desired indexing position, that is, the indexing mechanism must move over intermediate positions to arrive at the position desired, and therefore the machine will be cutting slices of varying thickness during the change of the indexing mechanism; whereas with my indexing device the change is effected substantially instantaneously and only while the table is moving in the return or non-cutting position, that is, while the machine is not slicing.

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

1. An indexing device for a slicing machine having a feed mechanism, said device comprising supporting means and means for mounting said device on the machine, an indexing member for engaging the feed mechanism, said member being provided with a plurality of cam means, and a plurality of members movably mounted in said supporting means, each movable member being arranged to engage and operate one of said cam means and thereby move the indexing member independently and a different distance.

2. An indexing device for a slicing machine having a feed mechanism, said device comprising supporting means and means for mounting said device on the machine, an indexing member for engaging the feed mechanism, said member being provided with a plurality of cam means, a plurality of keys mounted in said supporting means for engaging said cam means, each key moving said member a different distance, means for locking said keys in adjusted position, and means for releasing said locking means.

3. An indexing device for a slicing machine, said device comprising supporting means, means for mounting it on the machine, an indexing member provided with a plurality of cam means, a plurality of keys for engaging said cam means, each cam means and its cooperating keys being arranged to move the indexing member a different distance, and means including flanges on said keys and rods with arms for locking said keys in position.

4. An indexing device for slicing machines, said device comprising supporting means, means for mounting it on the machine, an indexing member provided with a plurality of cam means, a plurality of keys for engaging said cam means, each cam means and its cooperating key being arranged to move the indexing member a different distance, means including flanges on said keys and rods with arms for locking said keys in position, and a release key and means connecting said rods for releasing any or all of said keys simultaneously.

5. An indexing device for slicing machines, said device comprising a supporting housing, means for mounting it on the side of a machine, an indexing plate provided with a plurality of cam means, a plurality of keys for engaging said cam means, each cam means and its cooperating key being arranged to move the indexing plate a different distance, means including flanges on said

keys and rods with arms for locking said keys in position.

6. An indexing device for slicing machines, said device comprising a supporting housing, means for mounting it on the side of a machine, an indexing member provided with a plurality of bevelled cam portions, a plurality of depressible keys each for engaging one of said cam portions, each cam portion and its cooperating key being arranged to move the indexing plate a different distance, means for locking said keys in adjusted position, and means for releasing said locking means.

7. An indexing device for slicing machines, said device comprising a supporting housing, means for mounting it on the machine, an indexing plate provided with a plurality of bevelled cam portions, a plurality of depressible keys each for engaging one of said cam portions, each cam portion and its cooperating key being arranged to move the indexing plate a different distance, means including flanges on said keys and rods with arms for locking said keys in position, and a release key and means connecting said rod for releasing any or all of said keys simultaneously.

8. An indexing device for slicing machines, said device comprising supporting means, means for mounting it on the machine, an indexing member provided with a plurality of cam means, a plurality of keys having stems for engaging said cam means, each cam means and its cooperating key and stem being arranged to move the indexing member a different distance, sleeves with springs on said stems for normally releasing them from said cam means, flanges on said sleeves, rods with arms for engaging said flanges to lock said stems in operative position engaging said cam means, and a release key and means connecting said rods for releasing any or all of said keys simultaneously.

In testimony whereof I have signed my name to this specification in the presence of the subscribing witness.

PATRICK J. LUCEY.

Witness:
J. DANIEL STUWE.