C. J. LIETZ.

FEEDING MECHANISM.

APPLICATION FILED FEB. 13, 1920.

1,437,527.

Patented Dec. 5, 1922.

2 SHEETS—SHEET 1.

Fig. 1

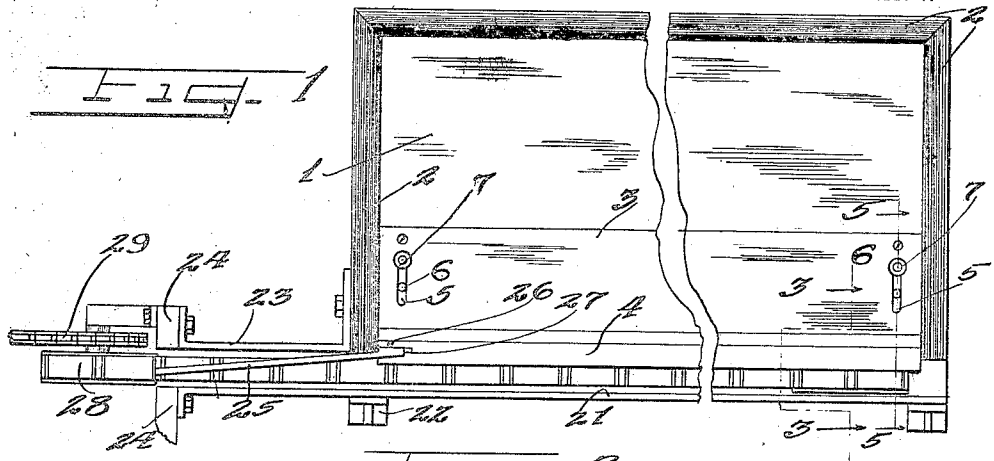



Fig. 2

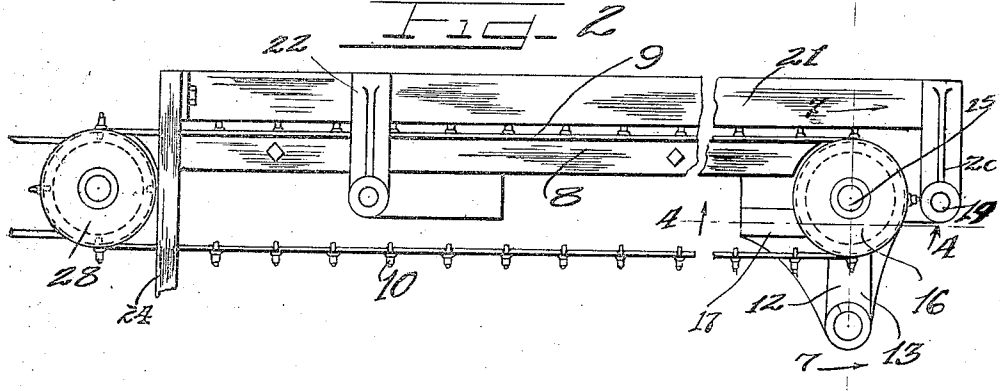



Fig. 3

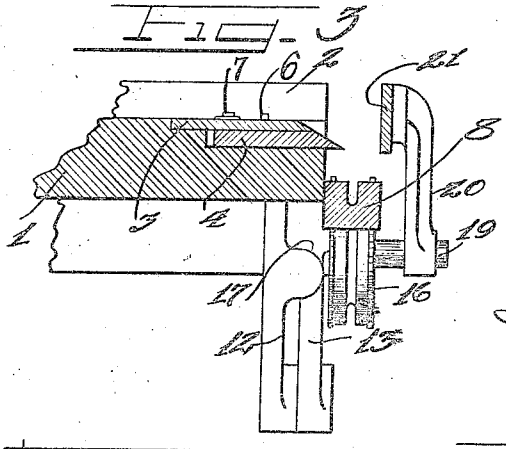
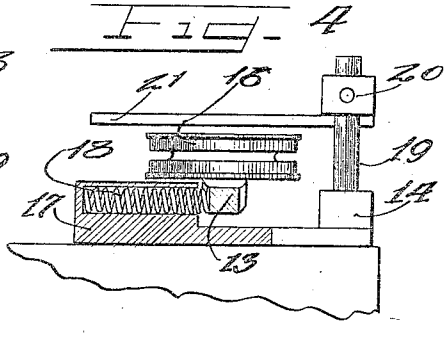



Fig. 4




Witnesses

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2 SHEETS—SHEET 2.

FIG. 5

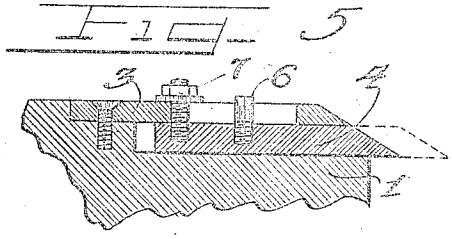



FIG. 6

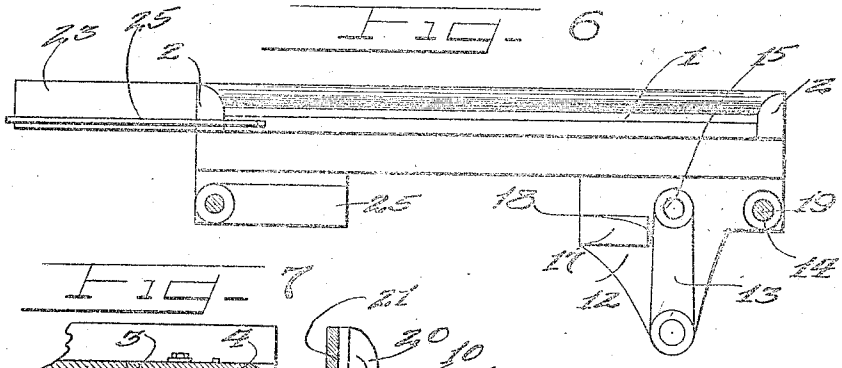



FIG. 7

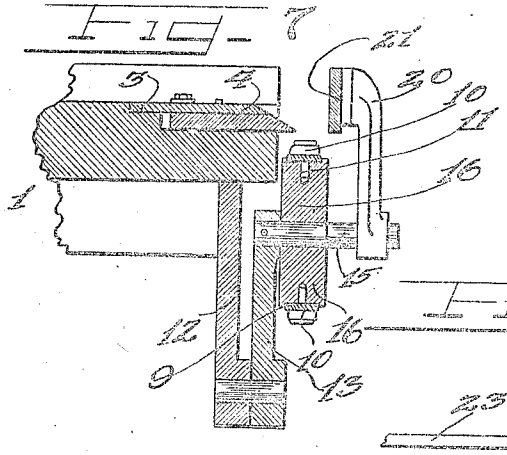
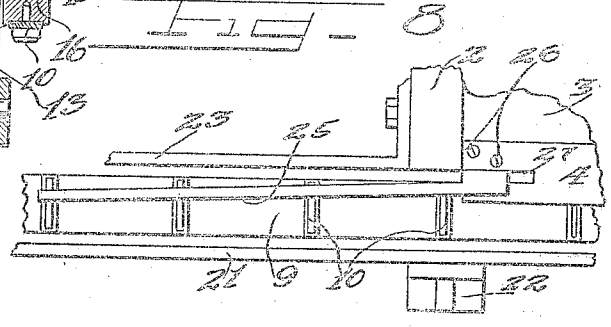



FIG. 8




Witnesses

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Patented Dec. 5, 1922. 1,437,527

# UNITED STATES PATENT OFFICE.

CHARLES J. LIETZ, OF NEWARK, NEW JERSEY, ASSIGNOR TO IDEAL WRAPPING MACHINE COMPANY, A CORPORATION OF NEW YORK.

## FEEDING MECHANISM.

Original application filed March 17, 1917, Serial No. 155,420. Divided and this application filed February 13, 1920. Serial No. 358,478.

*To all whom it may concern:*

Be it known that I, CHARLES J. LIETZ, a citizen of the United States, and a resident of the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in a Feeding Mechanism; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form a part of this specification.

This application constitutes a division of my co-pending application for patent for "wrapping machine" filed March 17, 1917, Serial No. 155,420, Patent No. 1,359,181, November 16, 1920.

The subject matter constituting the present invention relates to the feeding mechanism of a candy wrapping machine and includes a feeding table, its operating mechanism, a travelling belt and its association with said table, and mechanism for correctly seating the articles (in the present instance caramels) for wrapping, on the belt.

Other and further important objects of this invention will be apparent from the disclosures in the drawings and specification.

The invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

### *Drawings.*

Figure 1, is a top plan view of a feed table and a feed belt embodying the principles of my invention.

Figure 2, is a front elevation thereof.

Figure 3, is a detail section taken on line 3—3 of Figure 1.

Figure 4, is a detail section taken on line 4—4 of Figure 2.

Figure 5, is a detail section taken on line 5—5 of Figure 1.

Figure 6, is a view similar to Figure 2 with parts omitted.

Figure 7, is a sectional detail on line 7—7 of Figure 2.

Figure 8, is an enlarged fragmentary top plan view of the table and locating bar.

### *Description.*

The caramel feed table is denoted as a whole by the reference number 1, and is provided with a raised border or enclosing wall 2, on three sides thereof, which is of rounded contour on its inner and upper surfaces. Mounted on the feed table 1, adjacent the other side or edge thereof is a long plate 3, having a downwardly beveled edge, and beneath said plate is a slidable, bevel-edged plate 4. Said plate 3, is provided with guide slots 5, at each end thereof, engaged by guide pins 6, secured in the under plate 4, and clamping bolts 7, engage through said slots 5, and into the plate 4, to hold said plate 4 in various adjusted positions.

Disposed below the beveled edge of said plate 4, is a grooved guide member 8, over which the upper run of a feed belt 9 is adapted to travel, whereby the caramel may be fed onto the feed belt from the table, and carried toward wrapping position. Said belt 9, is provided with a series of pockets each adapted to receive a caramel and said pockets are formed by partition members 10, secured to the belt in any suitable manner, and each of said partition members 10, is provided with a downwardly extending tooth 11, for engagement in said grooved guide 8. A bracket 12, is secured on the under side, at one end of said feed table. In the lower end thereof is a crank 13, which extends upwardly and has secured therein a shaft 15, and journalled thereon is a peripherally grooved sheave or pulley 16. Seated within a cored extension 17 of the bracket 12, as shown in Figures 4 and 6, is a coiled compression spring 18, which bears outwardly against the upright crank or lever 13, operating normally to force said pulley 16 longitudinally of said table, to provide a tension on the feed belt 9, which is trained therearound. A stud 19, is secured in a boss extension 14 and secured thereon is an upright 20, shown in Figures 2, 3, 4 and 6. Secured to said upright 20, is a long bar 21

which near its other end is secured to an upright 22 and extends therebeyond, and is attached to the wrapping machine. Said bar 21 is adjacent to and at one side of the upper run of the feed belt 9, and operates to confine the caramels and assist in squaring the same into position on the belt as they are fed thereto from the table 1. Another confining bar 23, is attached to one end of the table 1, on one of the side walls 2, as shown in Figure 1, and to the frame of the wrapping machine denoted by the reference numeral 24, and together with that part of the bar 21 beyond the upright 22, prevents displacement of the caramels from the feed belt as they are operated upon, if not in proper position, by a stripper or truing mechanism. This comprises a candy righting element 25, which is secured by screws 26, extending through the beveled slidable plate 4, and said righting element projects outwardly through a slot 27 provided therefor in the beveled plate 4. Said righting element by reason of its connection to the slidable plate 4 may be adjusted into various angular positions over the feed belt 9, shown in Figure 8, fitting closely over the partitions 10 thereof. Journalled in suitable bearings provided for the purpose on the wrapping machine is a grooved driving pulley 28, having notches therein for engagement with the inwardly projecting tongue portions 11 of the belt and around which said feed belt 9 is trained, as shown in Figures 1 and 2. Secured upon the same shaft with said pulley 28, to drive the same is a sprocket wheel 29, driven by a chain from any suitable source of intermittent drive.

The caramels to be wrapped are placed upon the table 1 and then moved manually by a pusher bar or by tilting of the table 1 to cause the same to fall towards the intermittently travelling feed belt 9. Each space on the feed belt, between the partitions 10, is adapted to receive a single caramel therein and the confining bar 21 along one side of the belt serves to assist in squaring the caramels into position upon the belt. As the caramels are carried along by said belt 9, if they are not properly squared into true position on said belt, they will be contacted by the righting element 25, extending over the partition members 10 on the belt. Thus any caramels which may be in squared position on the belt with reference to the confining bar 21, if not squared otherwise, that is if tilted upwardly, will be contacted by the righting element 25, which owing to its long gradual inclined relation to the path of travel of the belt, will necessarily cause the caramels to readjust their positions on the belt to the proper squared relation therewith. After passing by the righting element 25, the belt travels into the field of operation of ejecting devices which feed the caramels from the belt to the wrapping mechanisms which, however, form no part of the present invention.

The bar or plate 4, is adjustable into close relation with the partition members 10 of the belt 9, so that the caramels sliding down the beveled edge of plate 4 fall directly into a pocket on the feed belt 9. The pulley 16, around which one end of the belt 9 is trained, is spring impelled by the spring 18, operating against the pivoted lever 13, so that the proper tension upon the feed belt is maintained at all times.

I am aware that numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

*Claims.*

1. In a candy wrapping machine, a feed table having an inclined edge, a caramel conveying element passing along said inclined edge and adapted for receiving caramels fed down said inclined edge, and a righting element adapted for righting any improperly positioned caramels on said conveying element.

2. In a candy wrapping machine, a conveying element having pockets adapted for receiving candy, and a candy righting element co-operating therewith to right improperly positioned candy thereon.

3. In a candy wrapping machine, an adjustable inclined element, a candy conveyor passing adjacent said element and adapted to receive candy fed down said inclined element, and a candy righting element secured to said adjustable element for righting the candy on said conveyor.

4. In a candy wrapping machine, a travelling belt conveyor, mechanism to discharge caramels thereon in inclined positions, and a righting element for moving tilted caramels into upright positions.

In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

CHAS. J. LIETZ.

Witnesses:
O. B. FELLOWS,
CHARLES W. MOORE.