

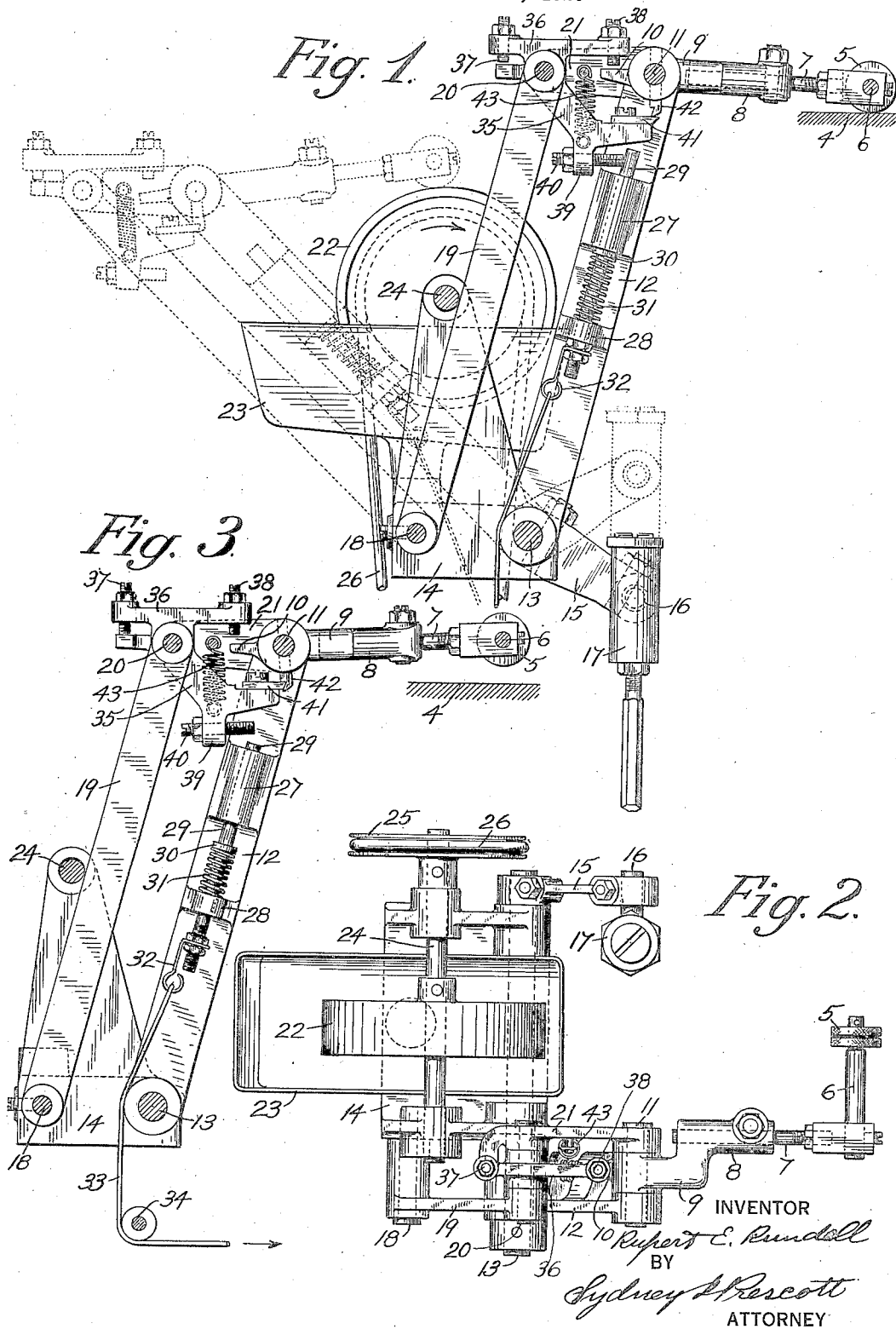
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CIGAR MACHINE PASTING DEVICE

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UNITED STATES PATENT OFFICE.

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CIGAR-MACHINE PASTING DEVICE.

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To all whom it may concern:

Be it known that I, RUPERT E. RUNDELL, a citizen of the United States, residing at Rockville Center, county of Nassau, and State of New York, have invented a new and useful Improvement in Cigar-Machine Pasting Devices, of which the following is a specification.

This invention relates to an improvement in cigar machine pasting devices.

In cigar making machines, particularly those in which fresh bunches are made, a binder is placed on a bunch rolling table prior to the enclosure of a charge of filler in the binder and paste is applied to the binder on the rolling table before the charge enclosing operation occurs. The paste conveyor automatically travels between paste receiving position and the bunch rolling table where it delivers paste once during each machine cycle of operations. It sometimes happens that the operator whose duty it is to place binders on the rolling table, fails to properly position the binder on the table before the paste conveyor reaches paste delivering position, and in that event the paste is applied not to the binder, but to the table itself. Then, when the binder is properly positioned on the table, the paste is on the wrong side of the binder and the latter sticks to the table. The main object of the present invention is the production of a device which eliminates this trouble by preventing the paste conveyor from delivering paste to the bunch rolling table when a binder is not in proper position thereon. With this and other objects not specifically mentioned in view, the invention consists in certain constructions and combinations which will be hereinafter fully described and then specifically set forth in the claims hereunto appended.

In the drawings, which form a part of this specification and in which like characters of reference indicate the same or like parts, Fig. 1 is a side elevation of a device constructed in accordance with the invention, showing the paste conveying means in paste receiving position by means of the dotted lines, and showing the paste conveying means in paste delivering position by means of the full lines; Fig. 2 is a plan view of the structure shown in Fig. 1; and Fig. 3 is a side elevation of a part of the device shown in Fig. 1 and illustrating the

paste conveying means in incapacitating position.

In carrying the invention into effect, there is provided paste conveying means normally traveling to and fro between paste receiving and delivering positions, the latter being (in the device illustrated) a bunch rolling table. There is also provided means selectively active on said conveying means to incapacitate it or prevent it from delivering paste to the bunch rolling table when there is no binder lying thereupon, and for rehabilitating said conveying means during its travel. In the best constructions, the incapacitating and rehabilitating means includes devices for diverting the conveying means from the paste delivering position when this is necessary and the incapacitating means is manually operative. In the best constructions also, the incapacitating and rehabilitating means includes a controlling member traveling with the conveying means and a tiltable device also traveling with said conveying means. The above mentioned means, devices and parts may be widely varied in construction within the scope of the claims, for the particular device selected to illustrate the invention is but one of many possible concrete embodiments of the same. The invention therefore is not to be restricted to the precise details of the structure shown and described.

Referring to the drawings, 4 diagrammatically indicates a bunch rolling table upon which a binder is spread prior to the enclosure therein of a charge of filler material to form a bunch. There is further provided a paste conveying means which, as shown, consists of a pasting wheel 5 mounted on a stud 6 carried by a stem 7 which is clamped in a boss 8 formed on a lever 9—10. This lever is fulcrumed on a stud 11 mounted in the upper end of an arm 12, the lower end of this arm being fast on a shaft 13 journaled in a bracket 14 adapted to be mounted on the cigar machine in connection with which the device is used. Fast on the end of the shaft 13 opposite the arm 12 is an arm 15, the free end of which is pivoted on a stud 16 carried by an adjustable connecting rod 17 which is cam actuated by means not shown but well known in the art and operated at the proper time to cause the pasting wheel to travel to and fro between paste receiving and

delivering positions, the delivering position being the table 4 before referred to.

Mounted on a stud 18 in the same horizontal plane as the shaft 13 is a parallel arm 19 and the upper end of this arm carries a stud 20 engaging a link 21 which also engages the pin 11 before referred to.

Means are also provided for supplying paste to the pasting wheel at paste receiving position; and as shown, this means consists in a paste supply drum 22 which runs partly submerged in a paste reservoir 23 supported by the bracket 14 before referred to. The paste drum is fast on a shaft 24 to one end of which is secured a pulley 25 over which runs a belt 26 deriving its motion from one of the shafts of the cigar machine in connection with which the device is used. That part of the mechanism so far described is old and well known in the art and since a more detailed description thereof is unnecessary to a full understanding of the present invention, it is omitted in the interest of brevity.

The pasting wheel 5 normally travels to and fro between the paste supplying drum 22 and the rolling table 4. To avoid the delivery of paste to the rolling table when there is no binder thereupon, devices are provided for diverting the roller 5 from the table 4; or in other words, from paste delivering position. With this end in view, the arm 12 is provided with two separated bosses 27—28 which are pierced longitudinally to receive a controlling member or rod 29 which is slidable therein. This rod is provided with a collar 30 between the bearings 27 and 28, and between the collar 30 and the bearing 28 a thrust spring 31 is coiled around the rod 29. This spring normally acts to hold the controlling rod 29 in the position shown in Fig. 1. The controlling member is, however, manually operable to move it to the position shown in Fig. 3, and this movement is accomplished by means of a clip 32 fast to the rod 29 and a cord 33 fast to the clip 32 and running over an idle pulley 34 to a position where it is convenient for operation by the machine operator who places binders on the rolling table. By the mechanism just described, the upper end of the controlling rod 29 is movable at the will of the operator into and out of the path of a tiltable device including a bracket 35 having a T-head 36 carrying at its opposite ends adjusting screws 37 and 38. The adjusting screw 38 coacts with the lever arm 10 before referred to. The bracket 35 has a depending boss 39 in which is threaded an adjusting screw 40 which moves to and from the upper end of the controlling rod 29. The bracket 35 further has a laterally projecting and adjustable latch 41 adapted to coact with a notched pin 42 carried by the fulcrumed boss of the lever 9—10. A spring 43, one end of which is con-

nected to the bracket 35 and the other to the link 21, serves to hold the latch 41 in engagement either with the end or with the notch of the pin 42.

The dotted lines in Fig. 1 show the parts in the position they occupy when the pasting wheel 5 is in paste receiving position, that is to say, in contact with the rotating paste supply drum 22. By inspection of Fig. 1, it will be noted that at this time the latch 41 is in engagement with the notched pin 42. The arms 12 and 19 are now operated by means of the connecting rod 17, and the pasting wheel 5 travels from paste receiving position over to paste delivering position. Assuming that a binder has been properly placed upon the rolling table 4, the controlling rod 29 is left in the position shown in Fig. 1, and just as the pasting wheel 5 moves over the rolling table 4, the adjusting screw 40 engages the upper end of the controlling rod 29, the tiltable device is rocked backward and the notched pin 42 is released from the latch 41 so that the pasting wheel can fall of its own weight to the binder on the rolling table and roll thereover a short distance. During the return travel of the pasting wheel 5, the parts remain in unlatched position until the pasting wheel 5 comes in contact with the paste supply drum 22. This contact results in lifting the pasting wheel 5 and permitting the spring 43 to act to relatch the parts, as indicated in dotted lines in Fig. 1. When, however, the operator has not had time to properly position a binder on the rolling table before the pasting roller 5 reaches paste delivering position, she pulls the cord 33, thus retracting the controlling rod 29 so that the adjusting screw 40 will not strike it, and the pin 42 will not be unlatched. When this occurs, the pasting wheel is held above the rolling table, as shown in Fig. 3, and returns without delivering any paste to cause trouble at the next cycle of operations.

What is claimed is:

1. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel.

2. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel and including devices for diverting said conveying means from paste delivering position.

3. In a cigar machine pasting device, the combination with paste conveying means

normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel, said incapacitating means being manually operable.

4. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel and including a controlling member traveling with said conveying means.

5. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel and including a spring-pressed and cord-actuated controlling member traveling with said conveying means.

6. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel, and movable means for supplying paste to said conveying means at paste receiving position.

7. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering positions, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel, said conveying means including a tiltable device controlling its action adjacent paste delivering position, and said incapacitating means including a controlling member movable in and out of the path of said tiltable device.

8. In a cigar machine pasting device, the combination with paste conveying means normally traveling to and fro between paste receiving and delivering position, of means selectively active on said conveying means to incapacitate and rehabilitate it during its travel, said conveying means including two parallel oscillating arms supporting the paste conveying medium and a tiltable device pivoted to one of said arms and controlling the action of said conveying means adjacent paste delivering position, and said incapacitating means including a controlling member slidable on the other of said arms in and out of the path of said tiltable member.

In testimony whereof, I have signed my name to this specification.

RUPERT E. RUNDELL.