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PASTING MECHANISM.

APPLICATION FILED AUG. 1, 1901.

NO MODEL.

Fig. 1,

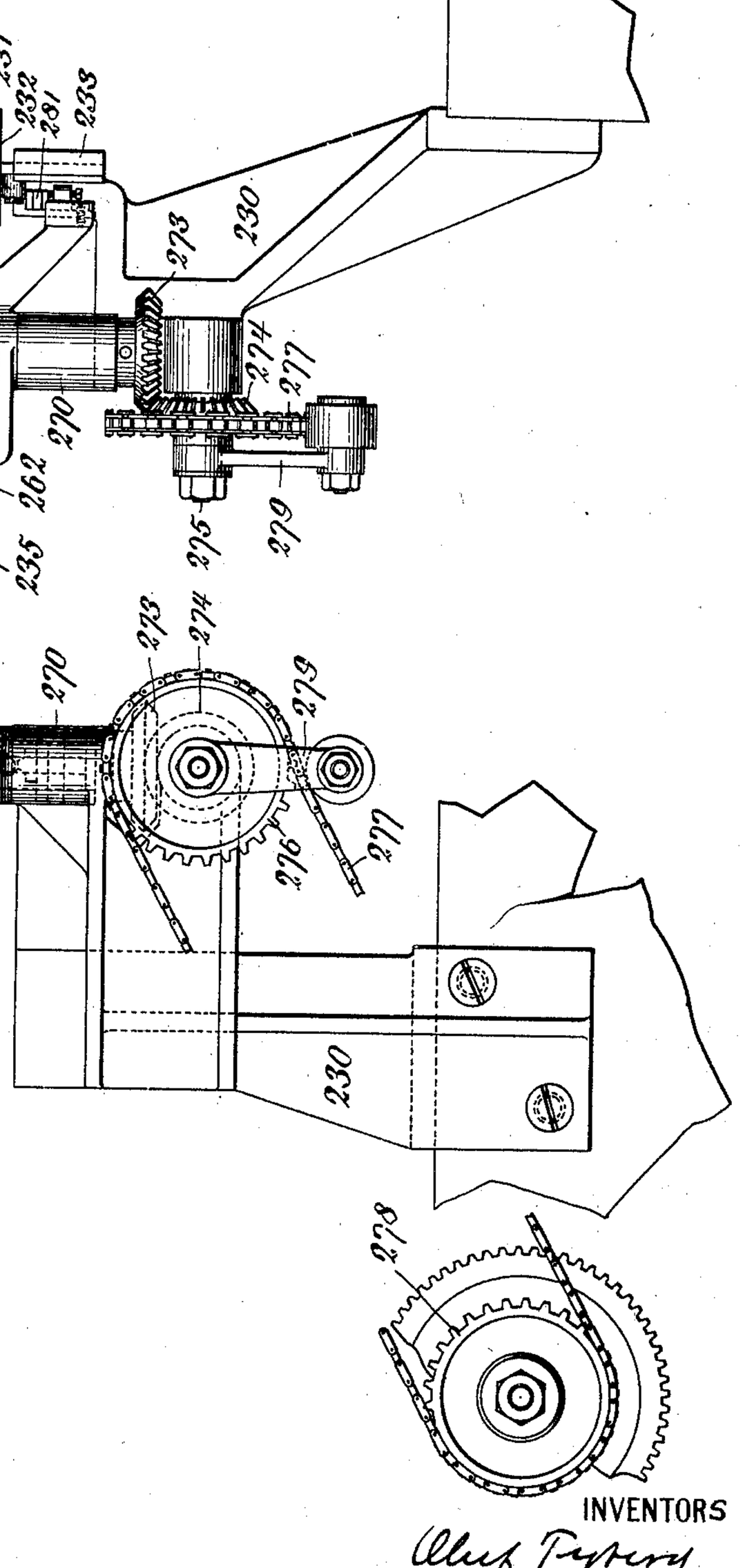

Fig. 2,

WITNESSES:

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OLUF TYBERG AND SYDNEY I. PRESCOTT, OF NEW YORK, N. Y., ASSIGNORS TO RUFUS L. PATTERSON AND GEORGE ARENTS, JR., OF NEW YORK, N. Y.

PASTING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 719,626, dated February 3, 1903.

Application filed August 1, 1901. Serial No. 70,471. (No model.)

To all whom it may concern:

Be it known that we, OLUF TYBERG and SYDNEY I. PRESCOTT, citizens of the United States, and residents of New York, county of Kings, and State of New York, have invented certain new and useful Improvements in Pasting Mechanisms, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to certain improvements in pasting mechanism.

In one type of cigar-machines the wrapper is presented to the wrapping mechanism by a moving support, the wrapper being retained on the support by suitable means—as, for instance, by suction. It is necessary in cigar-machines that the end of the wrapper which is to be wrapped about the tip end of the bunch be pasted prior to the wrapping operation, so that the wrapper may be secured upon the bunch. In the type of machines referred to the paste is applied to the wrapper by bringing the wrapper while held on the support into contact with a paste-roller which runs in a fountain. This form of pasting apparatus is objectionable, for the reason that it is difficult to control the amount of paste on the roller so that the precise amount desired will be deposited on the wrapper. Furthermore, the rubbing action due to the relative movement between the support and the roller when the two come into contact is liable to misplace the wrapper on the support.

It is the object of this invention to produce a pasting apparatus primarily intended for use in pasting cigar-wrappers, though it may be used in other relations, which shall avoid the objections heretofore stated, which shall be simple in construction and effective in operation, and which shall possess many other advantages over the pasting mechanisms now in use.

With this and other objects in view the invention consists in certain constructions and in certain parts, improvements, and combinations, as will be hereinafter fully described and then specifically pointed out in the claims hereunto appended.

In the accompanying drawings, in which like characters of reference indicate the same parts, Figure 1 is a side elevation of a pasting mechanism constructed in accordance with the invention, and Fig. 2 is a front elevation of the same.

Referring to the drawings, which illustrate one embodiment of the invention, 230 indicates a bracket which may be secured in any suitable manner to the frame of the machine with which the pasting mechanism is used. This bracket serves to support a paste-applying device, which in the present machine consists of a pad 231, mounted on a plate 232, supported on a stem 233. This pad is designed to transfer paste to a cigar-wrapper or other material, which is held, at the time the paste is applied to it, on a suitable support. The support for the wrapper may be of any suitable description. The support shown, however, which is marked 60, is a suction support of the form disclosed in Patent No. 654,203, granted July 24, 1900, to R. L. Patterson and George Arents, Jr., as the assignees of Oluf Tyberg. The paste is first applied to the pad by suitable mechanism, after which a relative movement is produced between the applying-pad and the wrapper-support in order to enable the pad to transfer the paste to the support. In the present machine this relative movement is effected by moving the pad, and to this end, therefore, the stem 233 is in the form of a slide mounted in a stationary head, which is attached to or forms a part of the bracket 230. The paste is contained in a suitable fountain 234, said fountain having a distributing device, which may be of any suitable description. In the construction shown this distributing device consists of a roll 235, mounted in bearings carried by the fountain, said roll being located, as usual, in the mouth of the paste-fountain. The amount of paste carried out of the fountain by the roll is determined by a suitable doctor, which may consist of a slide 236, controlled by a set-screw.

In order to bring the paste-applying pad into contact with the distributing-roll, a suitable relative movement must be produced between the pad and the distributing-roll. While this relative movement may be effected in any desired manner, it is accomplished according to the present invention by rotating the fountain. The means by which the foun-

tain is rotated may be of any suitable character; but they will preferably be such as to give the fountain a continuous movement. In the construction shown the bracket 230 is provided with a bearing 270, in which is mounted a suitable shaft 271. This shaft is provided with a bracket 272, in which the fountain 234 is adjustably secured in any suitable manner, as by means of a set-screw 242, the fountain being held between ways on the bracket. Any suitable means may be employed for rotating the shaft 271. As shown, this shaft is provided with a miter-gear 273, meshing with a similar gear 274, mounted on a stud 275, suitably supported in the bracket 230. The gear 274 is secured to and turns with a sprocket-wheel 276, which is driven by a chain 277 from another sprocket-wheel 278, which is driven from any moving part of the machine. A suitable tightener 279 may be employed, if desired, to keep the chain in proper driving condition.

It is desirable that the distributing-roll 235 be positively rotated by independent means at the time when it is in contact with the applying-pad, so that it may deposit an even sheet of paste thereon and any wiping action between it and the pad be avoided. To this end the shaft which supports the roll 235 is provided with a gear 262, which is arranged to mesh with a stationary rack 263 at the time the roll is in contact with the pad. This rack may be supported in any suitable manner and is shown as supported on the plate which holds the applying-pad.

Any suitable means may be employed to produce the movement of the pad by which it applies paste to a wrapper held on the support 60. In the construction shown the shaft 271 carries an arm 280, which serves to support a cam 281, which at proper times contacts with a stud 252, mounted on the slide 233. As the fountain rotates, therefore, its distributing-roll first comes in contact with the applying-pad 231 and applies a layer of paste thereto, after which the wrapper-carrying support 60 comes into position over the pad, and the pad is raised by means of the cam 281 on the arm 280.

While the term "paste" has been used throughout the specification and in the claims of this application, it will be understood that this term is intended to cover any suitable form of adhesive. It will be further understood that while the mechanism described by which the several operations incident to the invention are carried out is effective for the purpose other forms of mechanism may be employed. The invention is not, therefore, to be limited to the specific details of construction shown and described.

What is claimed is—

1. The combination with a fountain carrying a distributing device, of means for rotating the fountain, and a paste-applying device located in the path of movement of the distributing device, substantially as described.

2. The combination with a fountain carrying a distributing device, of means for continuously rotating the fountain, and a paste-applying device located in the path of movement of the distributing device, substantially as described.

3. The combination with a fountain carrying a distributing device, of means for rotating the fountain, a paste-applying device located in the path of movement of the distributing device, and means for producing a relative movement between the paste-applying device and the material to be pasted, substantially as described.

4. The combination with a fountain carrying a distributing device, of means for continuously rotating the fountain, a paste-applying device located in the path of movement of the distributing device, and means for producing a relative movement between the paste-applying device and the material to be pasted, substantially as described.

5. The combination with a fountain carrying a distributing device, of means for rotating the fountain, a paste-applying device located in the path of movement of the distributing device, and means for moving the applying device toward the material to be pasted, substantially as described.

6. The combination with a fountain carrying a distributing device, of means for continuously rotating the fountain, a paste-applying device located in the path of movement of the distributing device, and means for moving the applying device toward the material to be pasted, substantially as described.

7. The combination with a fountain carrying a paste-distributing roll, a gear on said roll, means for rotating the fountain, a paste-applying pad located in the path of movement of the distributing-roll, and a rack adjacent to the pad with which the gear engages when the roll is in contact with the pad, substantially as described.

8. The combination with a fountain carrying a paste-distributing roll, a gear on said roll, means for continuously rotating the fountain, a paste-applying pad located in the path of movement of the distributing-roll, and a rack adjacent to the pad with which the gear engages when the roll is in contact with the pad, substantially as described.

9. The combination with a fountain carrying a paste-distributing roll, a gear on said roll, means for continuously rotating the fountain, a paste-applying pad located in the path of movement of the distributing-roll, a rack adjacent to the pad with which the gear engages when the roll is in contact with the pad, and means for moving the pad toward the material to be pasted, substantially as described.

10. In a paste-applying mechanism, the combination with a bracket, of a paste-fountain carrying a distributing device secured to the bracket, means for rotating the bracket, a pad located in the path of movement of the

paste-distributing device, and an arm on the bracket for giving the pad a movement toward the material to be pasted, substantially as described.

11. In a paste-applying mechanism, the combination with a bracket, of a paste-fountain secured thereto and carrying a distributing-roll, a gear on the roll, means for rotating the bracket, a paste-applying pad, a rack carried by the pad, said pad and roll being so located that the pad will come in contact with the roll and the gear will engage the rack, and an arm on the bracket for giving the pad a movement toward the material to be pasted, substantially as described.

12. In a paste-applying mechanism, the combination with a bracket, of a paste-fountain secured thereto and carrying a distributing device, means for continuously rotating the bracket, a paste-applying pad located in the path of movement of the paste-distributing device, and an arm on the bracket for giving the pad a movement toward the material to be pasted, substantially as described.

13. In a paste-applying mechanism, the combination with a bracket, of a paste-fountain secured thereto and carrying a distributing-roll, a gear on the roll, means for continuously rotating the bracket, a paste-applying pad, a rack carried by the pad, said pad and roll being so located that the pad will come in contact with the roll and the gear will engage the rack, and an arm on the bracket for giving the pad a movement toward the material to be pasted, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

OLUF TYBERG.
SYDNEY I. PRESCOTT.

Witnesses:
G. WHITE,
A. A. V. BOURKE.