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M. P. E. HOHN

DEVICE FOR COATING WITH ADHESIVE THE WRAPPERS FED INTO THE COILING NEST IN CIGAR MACHINES, USING AN ADHESIVE APPLYING ROLLER

Filed Oct. 6, 1924

Fig. 1

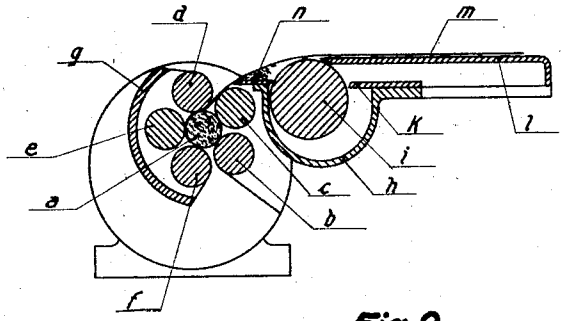


Fig. 1a

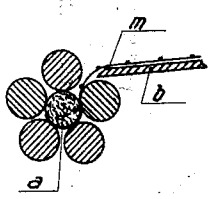


Fig. 2

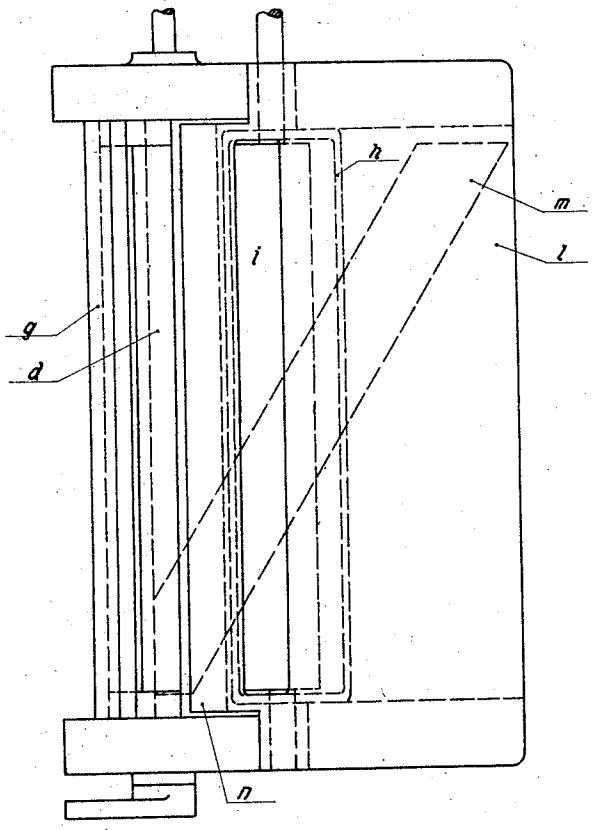
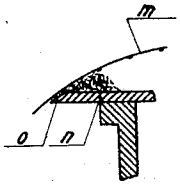


Fig. 3



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UNITED STATES PATENT OFFICE.

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DEVICE FOR COATING WITH ADHESIVE THE WRAPPERS FED INTO THE COILING NEST IN CIGAR MACHINES, USING AN ADHESIVE-APPLYING ROLLER.

Application filed October 6, 1924. Serial No. 741,812.

To all whom it may concern:

Be it known that I, MAX PAUL ERNST HOHN, a citizen of the German Republic, and a resident of Dresden-A, Germany, have invented new and useful Improvements in Devices for Coating with Adhesive the Wrappers Fed into the Coiling Nest in Cigar Machines, using an Adhesive-Applying Roller, of which the following is a specification.

In general the wrapper which is introduced into the coiling roller nest of cigar machines is coated on the under side with adhesive in such manner that it lies with its adhesive-coated side uppermost on the supporting table. Accordingly the wrapper is passed around the coil *a* in the manner shown in Fig. 1[a] of the attached drawing. Apart from the fact that the exposed adhesive-coated side of the wrapper easily becomes dirty, sticks and so on, all parts of the lower side cannot be coated uniformly with adhesive, because the ribs on the lower side of the tobacco leaf prevent the distribution of the adhesive. The hands of the operator become coated with adhesive, with the result that the delicate wrapper sticks to the fingers and tears.

It is, moreover, known to coat with adhesive the under side of wrappers by means of an adhesive roller let into the supporting table, the wrapper being then guided around a short hook-shaped end of the table into the unrolling device. With this method the outer side of the wrapper, which is not coated, lies uppermost, and the adhesive is applied only shortly before the wrapper enters the coiling roller nest. The disadvantages referred to above are thereby avoided, but this method has only so far been used for wrappers to be wound in spiral form, only the ends of which are provided with adhesive for securing the tip.

In order to render this method available for use in making cigars of other shapes, in which the whole wrapper is coated with adhesive and is rolled like the bunch the following means was devised. According to the present invention the table extends only as far as the adhesive roller, which naturally must be of the same length as the nest, so that the whole wrapper may be guided, and there is provided between the adhesive applying roller and the coiling nest a bar or strip serving as a distributor, over which the under side of the wrapper is led before it passes into the nest. The distributor serves to spread the adhesive uniformly over the lower side of the wrapper which bears on the coil and then on the coils of the wrapper, while the surplus is removed.

In the accompanying drawing the new device is shown in Fig. 1 in conjuction with the coiling roller nest in vertical section, while Fig. 2 is a plan view and Fig. 3 a detail. Fig. 1[a], as stated above, is a diagram illustrative of an earlier method of applying the wrapper.

As shown, the nest in formed of the two rotatable rollers *b* and *c*, which rotate about their own axes, and the three rollers *d*, *e*, *f*, which are mounted in a bearing bracket *g*, which is adapted to swing about the axis of the roller *f*. To the nest is directly connected the adhesive container *h* into which the adhesive applying roller *i* dips. This roller lies parallel to the nest and extends the length thereof. It is driven, and in its rotation picks up adhesive, a stripper *k* removing the superfluous adhesive in known manner.

With the roller is associated a supporting table *l*, on which the wrapper *m* is placed, in such manner (shown in dotted lines in Fig. 2) that the under ribbed side bears on the surface of the table. The tip of the wrapper is blown into the nest provided with the coil *a*. It is pressed from above on the coil, which on rotation draws the wrapper into the nest. The lower side of the wrapper thus contacts with the adhesive applying roller *i* and takes from it the adhesive. Before the wrapper enters the nest, however, it is led over the distributing bar *n* secured to the container *h*. (In Fig. 3 this bar is shown to enlarged scale).

At the point where the wrapper with its forward edge *o* comes in contact with this bar, the adhesive is piled up into a low wall, as a result of which not only the projecting ribs, but the whole surface, of the underside of the wrapper is coated with adhesive.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. In a cigar machine, the combination

with a coiling nest of an adhesive coating device for uniformly applying adhesive to the entire lower side of wrappers before passing into the coiling nest including an adhesive applying roller with which the entire lower side of the wrapper comes into contact in passing to the coiling nest.

2. An adhesive coating device for cigar wrappers comprising an adhesive container, an adhesive applying roller rotatably mounted therein and having its upper side horizontally exposed above the container, a spreading strip mounted adjacent to one side of the roller for removing superfluous adhesive from the roller and a distributing bar mounted on the other side of the roller over which the wrapper passes after leaving the roller.

3. An adhesive coating device for applying adhesive to the ribbed side of ribbed cigar wrappers, including an adhesive container and applying roller, and an adhesive distributing bar over which the ribbed wrapper passes after leaving the applying roller which bar removes surplus adhesive from the wrapper before it passes the bar and forces the adhesive in between the ribs on the wrapper.

4. In a cigar machine, the combination of a coiling roller nest comprising a series of longitudinal rollers, and adhesive applying means for wrappers comprising, an adhesive container, an adhesive applying roller therein extending the full length of the nest and directly associated therewith in parallel relation on one side, a supporting table on the other side of the adhesive container and roller, and a distributing bar extending between the applying roller and nest for pressing the adhesive into depressions in the wrapper and removing the excess before the wrapper passes into the nest.

In testimony that I claim the foregoing as invention, I have signed my name hereto.

MAX PAUL ERNST HOHN