

E. CARY.

MACHINE FOR PASTING THE ENDS OF COLLARS.

No. 177,204.

Patented May 9, 1876.

Fig. 1.

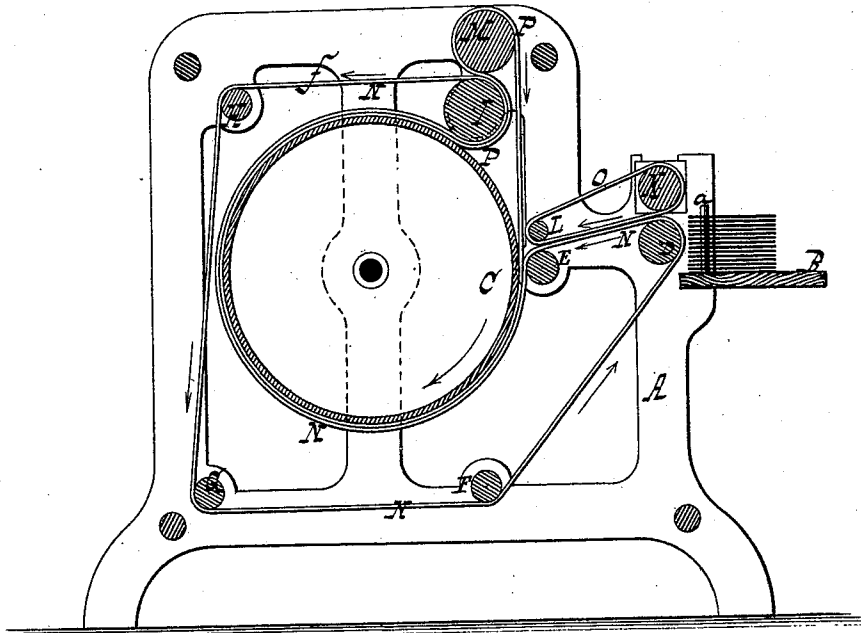
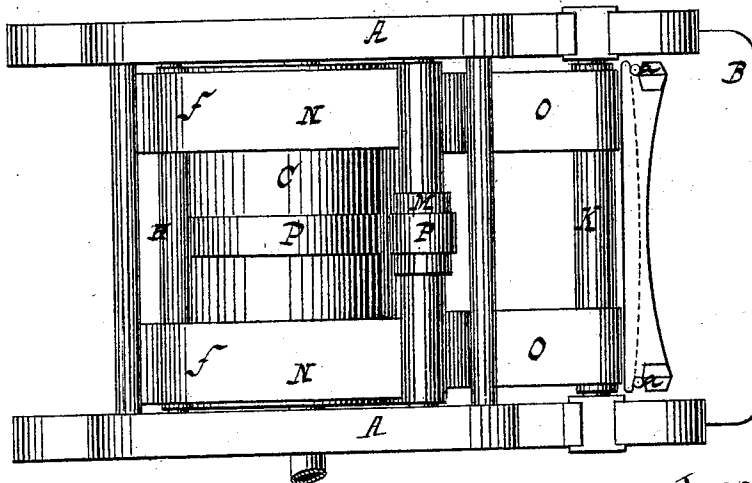


Fig. 2.



Witnesses.
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Fig. 3.

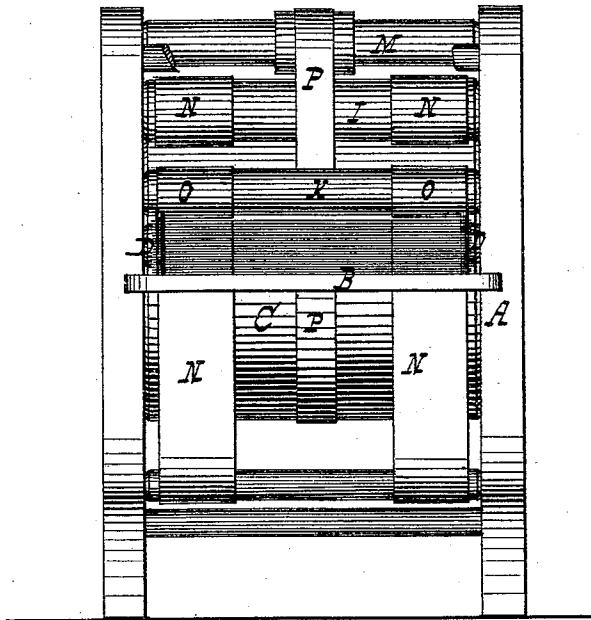
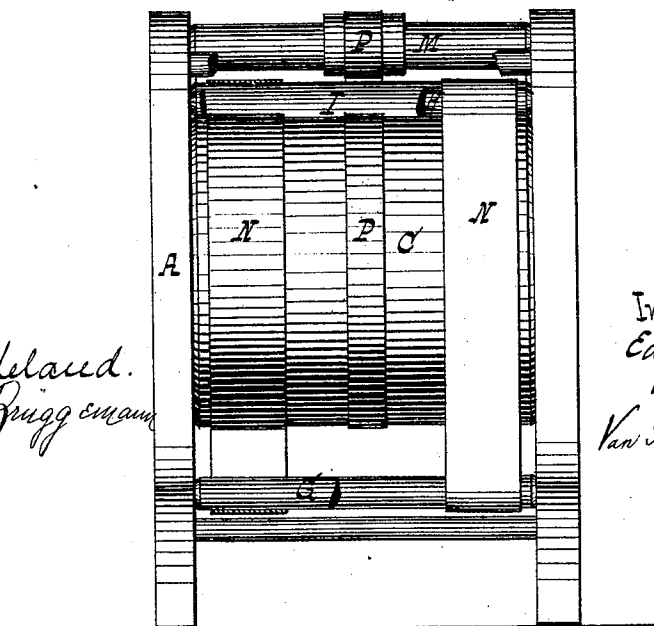


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

EDGAR CARY, OF NEW YORK, N. Y.

IMPROVEMENT IN MACHINES FOR PASTING THE ENDS OF COLLARS.

Specification forming part of Letters Patent No. **177,204**, dated May 9, 1876; application filed March 3, 1876.

To all whom it may concern:

Be it known that I, EDGAR CARY, of the city, county, and State of New York, have invented a new and useful Improvement in Machines for Pasting the Ends of Collars, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal vertical section. Fig. 2 is a plan or top view. Fig. 3 is a front view. Fig. 4 is a rear view.

Similar letters indicate corresponding parts.

This invention consists in the combination of a retaining-apron with the carrying tape or tapes which extend around the drying-drums, and with the table which supports the collars, and on which their ends receive the gum or paste, so that when the ends of a collar have been gummed and turned down, and said collar is placed on the carrying tape or tapes, said ends are held down by the retaining-apron, without, however, squeezing out any surplus paste, thereby saving the collar and the working parts of the machine from becoming soiled.

With the drying-drum and its carrying-tapes is combined a discharge-tape, situated between the carrying-tapes, and stretched around the drying-drum and over suitable guide-rollers, so that, by the combined action of said discharge-tape and of the carrying-tapes, the collars, after having been carried round the drying-drum, are finally dumped at the rear end of the machine.

In the drawing, the letter A designates a frame made of cast-iron or any other suitable material. With this frame is combined a table, B, which, in the example shown in the drawing, is firmly secured to the frame, and which, in practice, is so constructed that a rising-and-falling motion can be imparted to it by a treadle or any other suitable mechanism. In this table are secured guides *aa*, which serve to retain the collars in the required position, as indicated in Fig. 2. The frame A forms the bearings for the gudgeons of a heating-drum, C, and for a series of rollers, D E F G H I K L M. Two carrying-tapes, N N, extend round the drum and the rollers E, D, F, G, H, and I, as shown in Fig. 1, said tapes being so guided that they encompass about

four-fifths of the circumference of the drum C, and that they run in slightly-inclined planes over the rollers D E to said drum. The roller K is situated above the roller D, without, however, pressing against the same, and the roller L is situated over the roller E. Round the rollers K L are stretched the retaining-tapes O O; or, if desired, a single apron may be substituted for these tapes. Said retaining-tapes are situated right over the carrying-tapes, without, however, coming in contact with the same. Between the carrying-tapes is situated the discharge-tape P, which extends round the heating-drum and over the rollers I M, as shown in Fig. 1. The motion of the several parts takes place in the direction of the arrows marked near them in this figure. The ends of each collar are supplied with paste either by a suitable mechanism or by means of a brush, and after said ends have been turned in, so as to cause them to adhere to the body of the collar, said collar is pushed in between the carrying-tapes N and the retaining-tapes O. By the action of the retaining-tapes the pasted ends of the collars are prevented from turning up, and, by the carrying-tapes, the collar is made to pass round the heating-drum, the pasted ends being held in contact with the surface of said drum, while the middle of the collar bears against the discharge-tape P. After having passed round the heating-drum to the roller I the collar is thrown off by the action of the discharge-tape on the horizontal branches *f* of the carrying-tapes, and finally dumped over the roller H at the rear end of the machine.

During the time the collar passes through between the carrying-tapes and the retaining-tapes the pasted ends of the collars are prevented from springing up, while at the same time the collar is not subjected to sufficient pressure to squeeze out the surplus paste, and thereby the bodies of the collars and the working parts of the machine are prevented from being soiled.

By combining the discharge-tape with the carrying-tapes I am enabled to retain the collars in contact with the drying-drum during four-fifths or more of the revolution of said drum, and the collars, after having been pasted and dried, are discharged over the rear end

of the machine, where they can be readily collected.

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

1. In a machine for pasting the ends of collars, the combination of a retaining-tape or apron, O, with the carrying-tape or tapes N, the drying-drum C, and the table B, on which the ends of the collars are supplied with paste, all constructed and operating substantially as set forth.

2. The combination of a discharge-tape, P, with the carrying-tapes N and drying-drum C, said discharge-tape being situated between the carrying-tapes and arranged in relation to the same, substantially in the manner shown and described.

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Witnesses:

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