No. 746,376. PATENTED DEC. 8, 1903.

S. I. PRESCOTT.

MARKING MACHINE.

APPLICATION FILED AUG. 8, 1903.

NO MODEL. 5 SHEETS—SHEET 1.

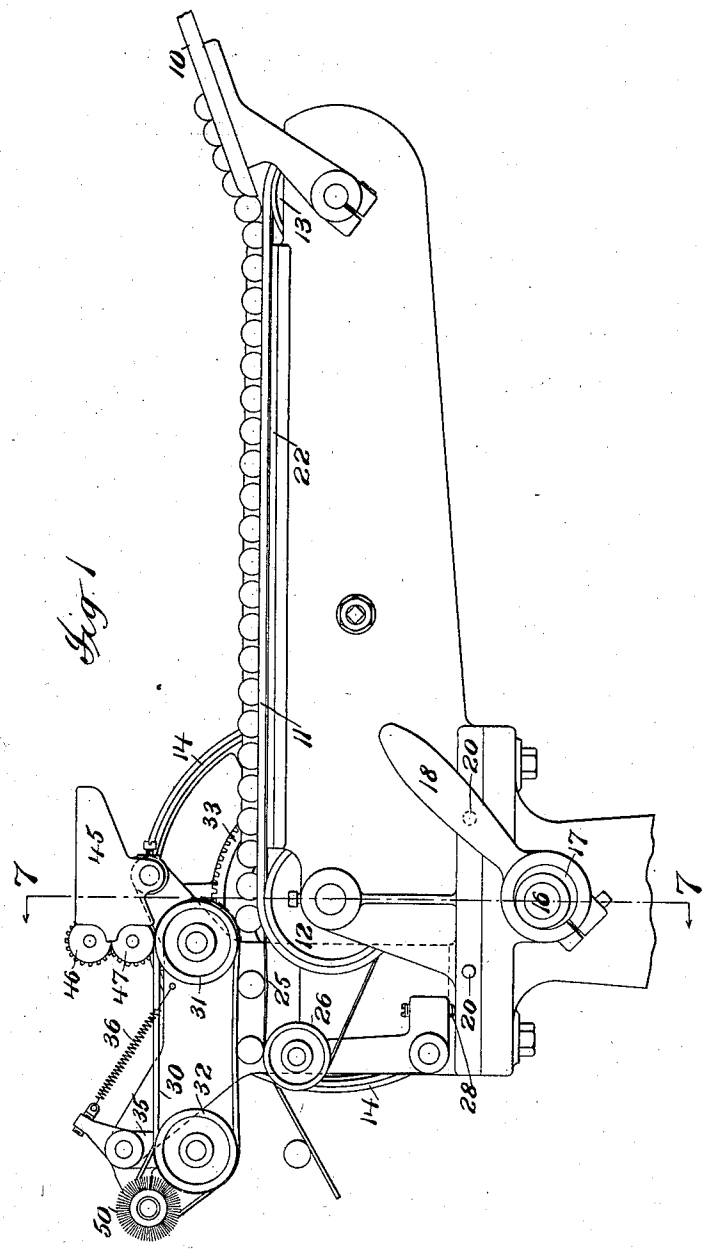

Fig. 1

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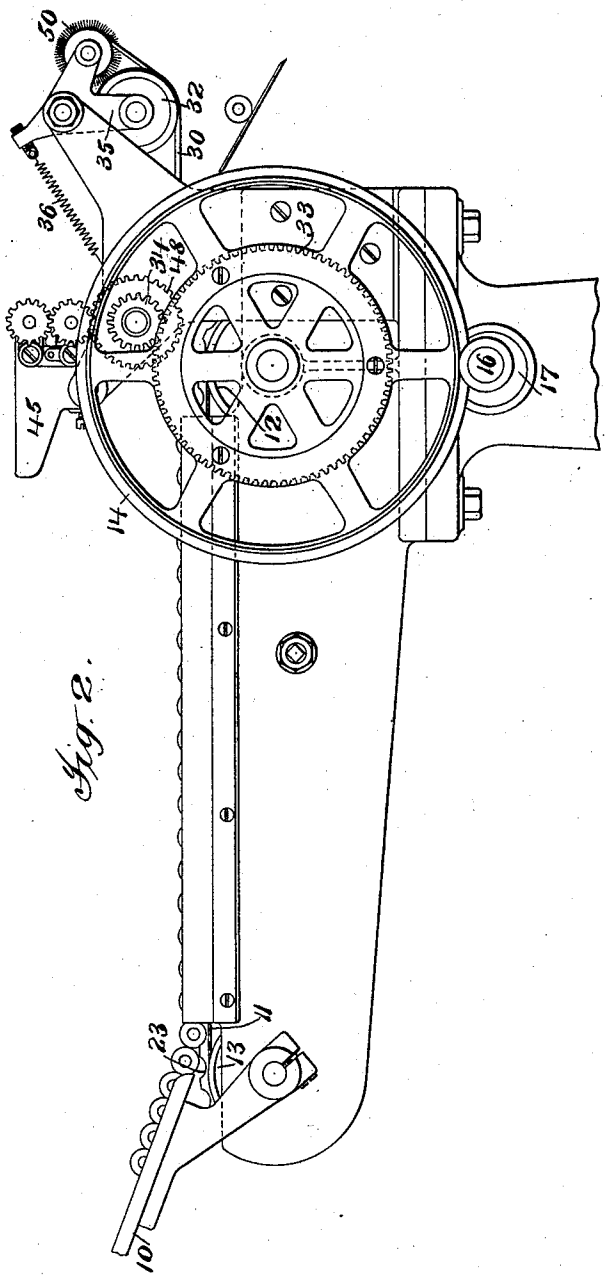

Fig. 2.

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NO MODEL. 5 SHEETS—SHEET 3.

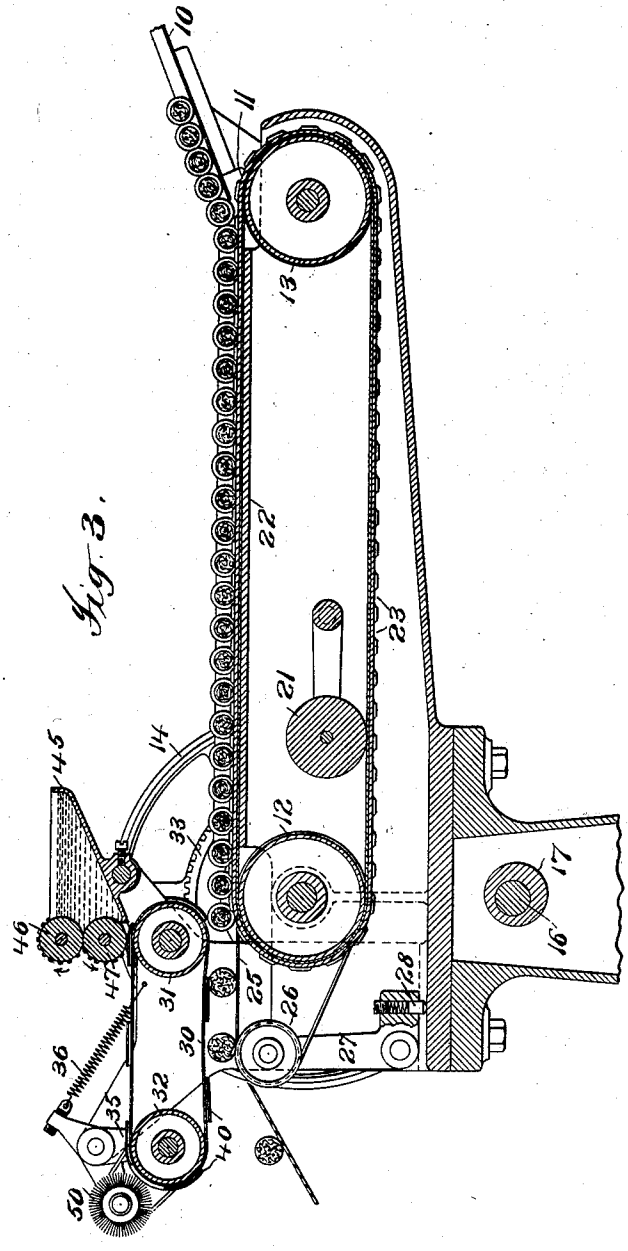

Fig. 3.

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NO MODEL. 5 SHEETS—SHEET 4.

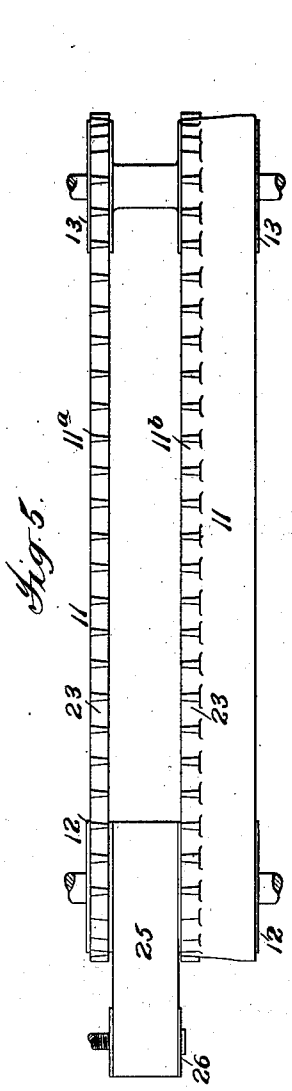

Fig. 5.

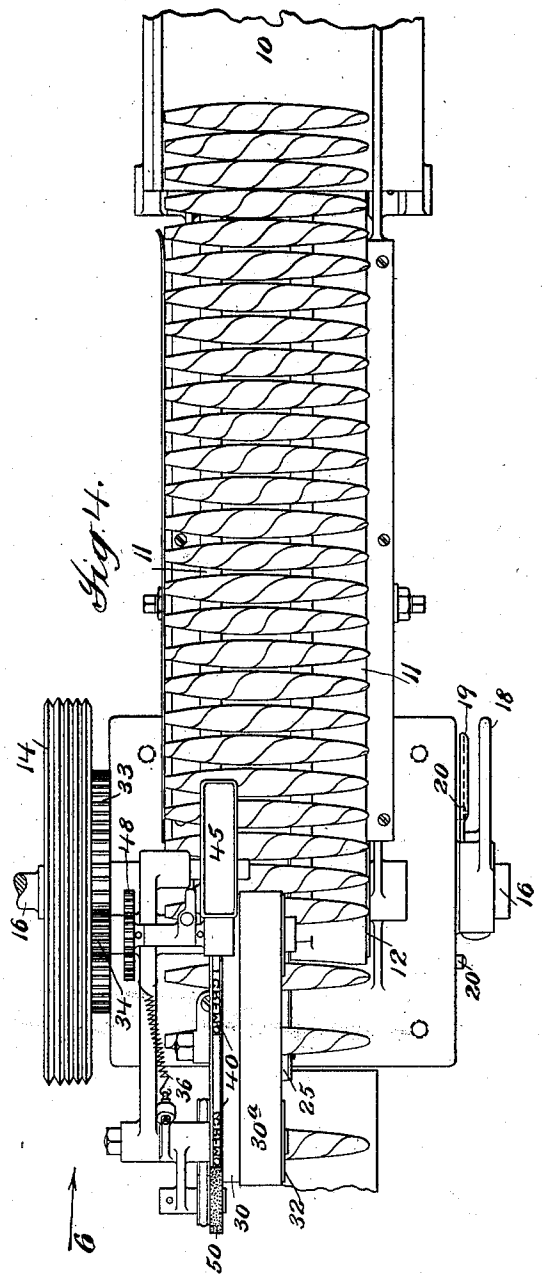

Fig. 4.

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NO MODEL. 5 SHEETS—SHEET 5.

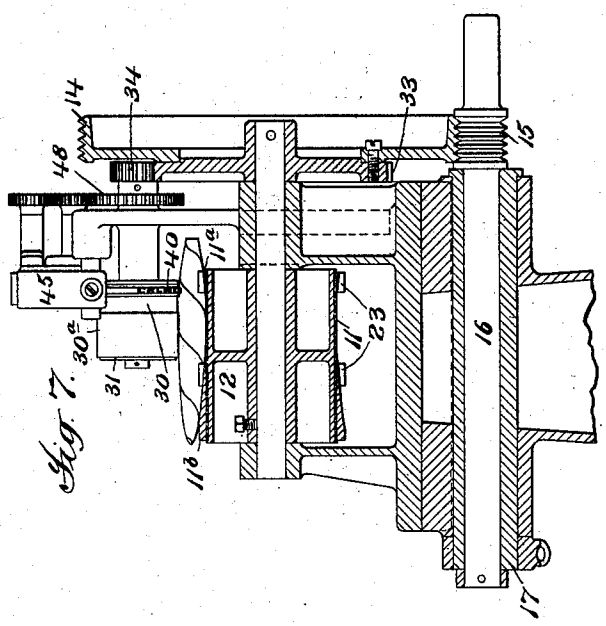

Fig. 7.

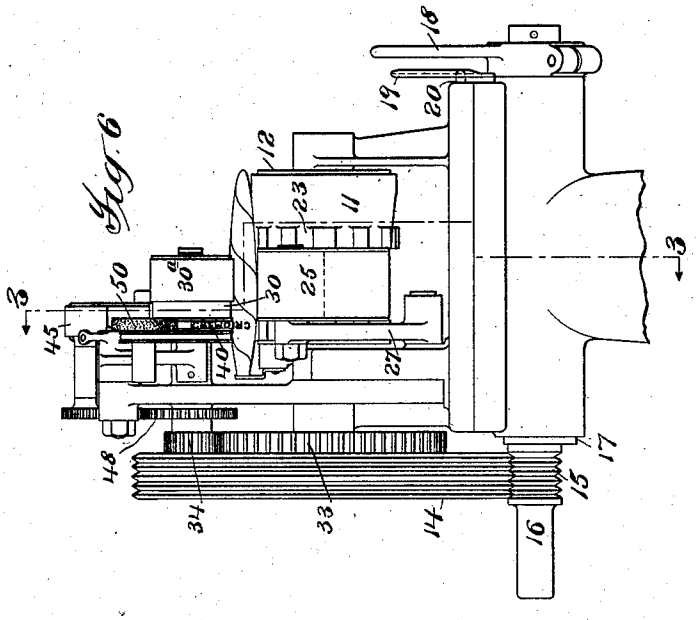

Fig. 6.

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No. 746,376. Patented December 8, 1903.

UNITED STATES PATENT OFFICE.

SYDNEY I. PRESCOTT, OF NEW YORK, N. Y., ASSIGNOR TO AMERICAN CIGAR COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

MARKING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 746,376, dated December 8, 1903.

Application filed August 8, 1903. Serial No. 168,722. (No model.)

To all whom it may concern:

Be it known that I, SYDNEY I. PRESCOTT, a citizen of the United States, residing at New York city, county of New York, and State of New York, have invented certain new and useful Improvements in Marking-Machines, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to machines for marking articles.

The invention has been made especially with the idea for providing a machine adapted for marking cigars with lettering or a suitable design applied to the cigar circumferentially; and the invention aims to provide such a machine of simple construction adapted to mark the cigars without injury to the wrapper and capable of operating at a very high speed.

Although intended, primarily, for marking cigars, the invention may be employed in machines for marking other articles for which it may be found applicable.

As a full understanding of the invention can best be given by a detailed description of a preferred construction embodying the various features thereof, such a description will now be given in connection with the accompanying drawings.

In said drawings, Figure 1 is a side elevation of the machine. Fig. 2 is a side elevation of the opposite side of the machine from Fig. 1. Fig. 3 is a longitudinal section taken on line 3 of Fig. 6. Fig. 4 is a plan view of the machine. Fig. 5 is a detail plan view of the feed-carrier and the feed-belt forming the marking-table. Fig. 6 is an end view looking in the direction of the arrow 6 of Fig. 4. Fig. 7 is a cross-sectional view on line 7 of Fig. 1.

Referring to the drawings, the cigars or other articles to be marked are placed on an inclined feedway 10, down which they roll onto a horizontally-moving carrier or feed belt 11, supported by rolls 12 and 13. The shaft of the roll 12 carries a friction-disk 14, which engages a friction-pulley 15 on the driving-shaft 16. The driving-shaft 16 is mounted in an eccentric-bearing sleeve 17, which is rocked by means of a hand-lever 18 to move the shaft 16 to carry the pulley 15 into and out of engagement with the pulley 14. For holding the eccentric-bearing in position to which it has been moved the handle 18 is provided with a spring 19, adapted to engage one or the other of two studs 20. A tension-roll 21 is preferably provided for bearing on the under run of the feed-belt 11, and a support 22 is preferably provided for the upper run of the belt, as shown in Fig. 3. For holding the cigars in position properly spaced on the feed-belt the belt is formed with equally-spaced indentations or pockets 23, and the belt is preferably formed of two parts or sections 11^a and 11^b, spaced apart, as shown in Fig. 5.

As the feed-belt 11 turns about the roll 12 the cigars are received upon and advanced by a feed-belt 25, supported by the driving-roll 12 between the sections 11^a and 11^b of the feed-belt 11 and by an idle roll 26, which roll 26 is carried by a pivoted bracket 27, spring-pressed, as by the adjustable spring-stud 28, to hold the belt 25 under the desired tension.

The belt 25 forms a moving marking-table on which the cigars are rolled in contact with the marking-surface. For rolling the cigars on the belt 25 a rolling-belt 30 is provided carried by rolls 31 and 32, the rolls 31 and 32 being positioned so that the under run of the belt 30 will be parallel with the upper run of the belt 25 and the roll 31 being positioned so that the cigars will be engaged by the belt 30 as they are fed by the belt 11 onto the belt 25 and freed from the pockets 23 of the belt 11 as the latter belt turns on the roll 12. The roll 31 is driven to move the belt 30 at a greater speed than the belts 11 and 25, so that the cigars will be rolled on the belt 25 in the direction of the movement of said belt. As the cigars reach the marking-table they will thus be rolled over the same and advanced at an accelerated speed, as indicated in Fig. 3.

As shown, the roll 31 is driven from a gear 33 on the shaft of the roll 12, which gear meshes with a pinion 34 on the shaft of the roll 31. The roll 32 is preferably carried by a pivoted bracket 35, to which is connected a spring 36 to hold the belt 30 under the desired tension. The rolls 32 and 26 being thus yield-

ingly mounted, the belts 30 and 25 will be free to yield to avoid too great a pressure on oversized cigars.

The marking-surfaces 40 are preferably secured to or formed on the rolling-belt 40, as shown, the belt being preferably formed with a raised rolling-face 30^a and a plurality of marking-surfaces being positioned on said belt in position to engage the cigars beyond the line of engagement therewith of such rolling-surface and beyond the line of engagement with the cigars of the supporting-belt 25. The marking-surfaces may be of any suitable material, but preferably of a yielding material, such as rubber. The marking-surfaces are shown in the drawings as formed to mark the cigars with a single line of letters; but it will be understood that they may be of other form, as for applying a double line of letters or words or for applying other desired design or mark to the cigars.

It will be understood that the marking-surfaces are so positioned on the belt 30 and the belt driven at such a speed with relation to the movement of the belt 11 that each cigar delivered by the belt 11 to the belt 25 will be engaged by a marking-surface as it is rolled on the belt 25 by the rolling-belt 30.

Any suitable means may be provided for applying the marking material to the marking-surface. A preferred device for this purpose of simple construction is shown in the drawings and includes a fountain 45 for the marking material and a pair of coacting feed-rolls 46 and 47, mounted to turn partially within the fountain and so as to form one wall thereof, as shown best in Fig. 3. Such rolls being driven in the direction of the arrows on Fig. 3, as by being geared together and driven from a gear 48 on the shaft of the roll 31, will be constantly supplied with a thin coating of marking material. One of such rolls, as 47, serves as a delivery-roll and may also, as shown, serve as the applying-roll, the inking device being mounted so that the roll 47 shall be in position to engage the marking-surfaces as they successively move beneath it.

A rotary cleaning-brush 50 is preferably provided mounted on an arm of the bracket 35 in position to wipe against the marking-surfaces as the latter move past it.

It will be understood that the invention is not limited to the exact construction and arrangement of parts as shown in the drawings and to which the foregoing description has been mainly confined, but that the invention includes various changes and modifications thereof within the claims.

What I claim is—

1. In a marking-machine, the combination of a moving marking-table, a rolling member coacting with said marking-table to roll the articles between the marking-table and said member, said member moving in the same direction as but at a different speed from the marking-table, a marking-surface for engaging the articles as they are rolled between said members, and means for moving the marking-surface while in engagement with the articles, substantially as described.

2. In a marking-machine, the combination of a moving marking-table, a rolling member coacting with said marking-table to roll the articles between the marking-table and said member, said member moving in the same direction as but at a different speed from the marking-table, and a marking-surface moving with one of said members, substantially as described.

3. In a marking-machine, the combination of a moving marking-table, a rolling member coacting with said marking-table to roll the articles between the marking-table and said member, said member moving in the same direction as but at a different speed from the marking-table, and a marking-surface moving with said rolling member, substantially as described.

4. In a marking-machine, the combination of a moving marking-table, a rolling member coacting with said marking-table to roll the articles between the marking-table and said member, said member moving in the same direction as and at a greater speed than the marking-table, and a marking-surface moving with said rolling member, substantially as described.

5. In a marking-machine, the combination of a moving marking-table, a rolling-belt coacting with said marking-table to roll the articles between the marking-table and said belt, said belt moving in the same direction as but at a different speed from the marking-table, and a plurality of marking-surfaces moving with the rolling-belt, substantially as described.

6. In a marking-machine, the combination of a moving marking-table, a rolling-belt coacting with said marking-table to roll the articles between the marking-table and said belt, said belt moving in the same direction as but at a different speed from the marking-table, and a plurality of marking-surfaces carried by the rolling-belt, substantially as described.

7. In a marking-machine, the combination of a moving marking-table, a rolling member coacting with said marking-table to roll the articles between the marking-table and said member, said member moving in the same direction as but at a different speed from the marking-table, a marking-surface for engaging the articles as they are rolled between said members, means for moving the marking-surface while in engagement with the articles, and means for feeding articles to the marking-table, substantially as described.

8. In a marking-machine, the combination of a moving marking-table, a rolling member coacting with said marking-table to roll the articles between the marking-table and said member, said member moving in the same direction as but at a greater speed than the

marking-table, a marking-surface moving with said rolling member, and means for feeding articles to the marking-table, substantially as described.

9. In a marking-machine, the combination of a feeding-belt forming a moving marking-table, a rolling-belt moving in the same direction as but at a different speed from said feeding-belt for coacting therewith to roll the articles between said belts, a marking-surface for engaging the articles as they are rolled between said belts, and means for moving the marking-surface while in engagement with the articles, substantially as described.

10. In a marking-machine, the combination of a feeding-belt forming a moving marking-table, a rolling-belt moving in the same direction as but at a different speed from said feeding-belt for coacting therewith to roll the articles between said belts, and a plurality of marking-surfaces carried by one of said belts, substantially as described.

11. In a marking-machine, the combination of a feeding-belt forming a moving marking-table, a rolling-belt moving in the same direction as but at a different speed from said feeding-belt for coacting therewith to roll the articles between said belts, and a marking-surface moving with said rolling-belt, substantially as described.

12. In a marking-machine, the combination of a feeding-belt having article-holding pockets thereon, a second feeding-belt to which the articles are delivered by the first feeding-belt, a rolling member coacting with said second feeding-belt to roll the articles between said belt and said member, said member moving in the same direction as but at a greater speed than said second feeding-belt, a marking-surface for engaging the articles as they are rolled between the rolling member and the second feeding-belt, and means for moving the marking-surface while in engagement with the articles, substantially as described.

13. In a marking-machine, the combination of a feeding-belt having article-holding pockets thereon, a second feeding-belt to which the articles are delivered by the first feeding-belt, a rolling-belt moving in the same direction as but at a greater speed than the second feeding-belt for coacting therewith to roll the articles between said belts, and a marking-surface moving with said rolling-belt, substantially as described.

14. In a marking-machine, the combination of a feeding-belt having article-holding pockets thereon, a second feeding-belt to which the articles are delivered by the first feeding-belt, a rolling-belt moving in the same direction as but at a greater speed than the second feeding-belt for coacting therewith to roll the articles between said belts, and a plurality of marking-surfaces carried by said rolling-belt, substantially as described.

15. In a marking-machine, the combination of a feeding-belt having article-holding pockets thereon, a second feeding-belt to which the articles are delivered by the first feeding-belt, a rolling member coacting with said second feeding-belt to roll the articles between said belt and said member, and a marking-surface for engaging the articles as they are rolled between the rolling member and the second feeding-belt, substantially as described.

16. The combination of the feed-belt 11, roll 12 for supporting said belt, feed-belt 25 supported by the roll 12 and extending therefrom in the opposite direction from the belt 11, rolling-belt 30, and a marking-surface for engaging the articles as they are rolled between the belts 25 and 30, substantially as described.

17. The combination of the feed-belt 11 formed of two parts 11^a and 11^b, feed-belt 25 extending beyond the belt 11, means for moving said belts in the same direction at the same speed, rolling-belt 30, means for moving the belt 30 at a greater speed than the belts 11 and 25, and a marking-surface for engaging the articles as they are rolled between the belts 25 and 30, substantially as described.

18. The combination of the feeding-belt 25, yieldingly mounted supporting-roll 26 for said belt, rolling-belt 30, yieldingly-mounted supporting-roll 32 for said belt, and a plurality of marking-surfaces 40 carried by the belt 30, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SYDNEY I. PRESCOTT.

Witnesses:
A. L. KENT,
W. H. KENNEDY.