

Feb. 17, 1942.

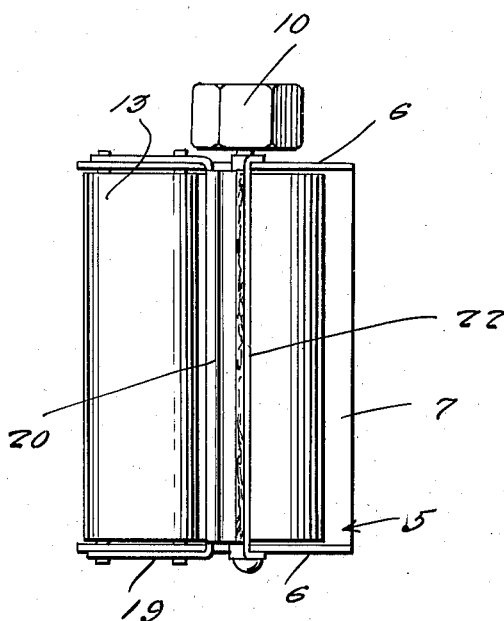
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2,273,787

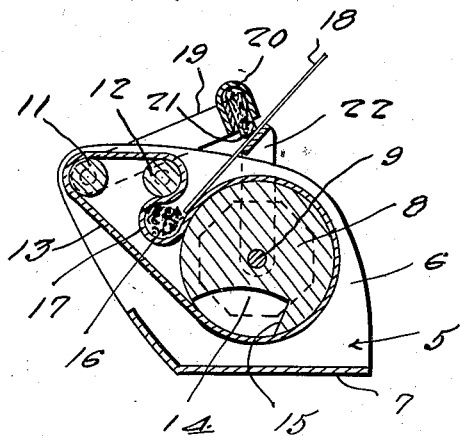
CIGARETTE ROLLING MACHINE

Filed July 30, 1940

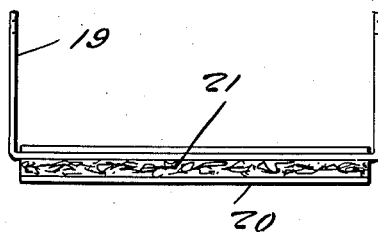
Figs. 1.



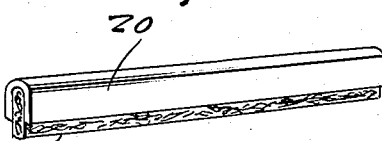
Figs. 2.



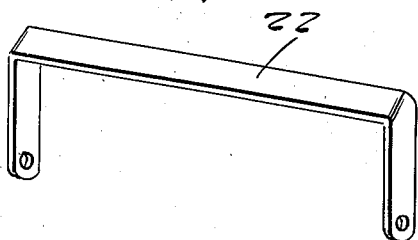
Figs. 3.



Figs. 4.



Figs. 5.



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CIGARETTE ROLLING MACHINE

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1 Claim. (Cl. 131—37)

The present invention relates to machines for rolling cigarettes, and has for its primary object to provide a compact portable device of this character adapted to be carried in the pocket of a person or in a similar convenient manner whereby persons may roll their own cigarettes using their preferred tobacco, and embodying a novel roller construction having a longitudinally extending cigarette forming groove therein and adapted through the cooperation of an endless web, for rolling the cigarette in compressed form upon the manipulation of the roller in one direction and embodying means for the ejection of the cigarette upon a reverse movement of said roller.

An object of the invention is to provide means for moistening the cigarette paper used in making the cigarette.

One of the important objects of the present invention is to provide a cigarette rolling machine of this character of simple and practical construction, which is efficient and reliable in performance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming part hereof wherein like numerals refer to like parts throughout, and in which—

Figure 1 is a top plan view.

Figure 2 is a transverse sectional view.

Figure 3 is a detail of the moistening pad and supporting arm.

Figure 4 is a perspective view of the pad.

Figure 5 is a perspective view of the supporting bed for the paper during the moistening thereof.

Referring now to the drawing in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a casing which preferably comprises a pair of spaced parallel end walls 6 and a bottom 7.

A cigarette forming roller 8 is positioned between the end walls 6 and mounted upon a shaft 9 journaled in said wall, the outer end of the shaft being provided with a manipulating wheel or knob 10. Also journaled between the end walls 6 in a predetermined parallel relation with respect to the roller 8 are a pair of idler rollers 11 and 12 and trained about the rollers 8, 11 and 12, is an endless flexible web 13, of any suitable material.

The forming roller 8 is provided with a longi-

5 tudinally extending groove 14, the cross sectional configuration of the groove being of a form as shown in Figure 2, and being of concaved form throughout the greater portion of its area, and terminating along one longitudinal edge with an undercut lip 15 having its under-cut surface extending at an obtuse angle with respect to the base of the groove.

10 The under-cut lip 15 is positioned on the advance side or edge of the groove 14 with respect to the roller 12 and when the roller is turned in a counter-clockwise direction when viewed with respect to Figure 2 of the drawing, and a portion of the web 13 is adapted to seat within the groove 14 to form an elongated pocket for receiving a quantity of tobacco 16, whereby upon the rotation of the roller, the tobacco will be compressed in a loop 17 formed in the web 13 between the roller 8 and roller 12, the continued rotation of the roller 8 in a counter-clockwise direction maintaining the compressed roll of tobacco in a cylindrical form. A cigarette paper or wrapper 18 is then positioned edgewise between the rollers 8 and 12, and in a position immediately adjacent the roller 8, the outer edge of the paper being moistened and upon the further rotation of the roller 8 in a counter-clockwise direction, the paper 18 will be rolled about the compressed tobacco 16, the moistened outer edge of the paper sealing the wrapper in position in a manner well known in the art. The rotation of the roller 8 in a reverse direction will cause the lip 15 to engage the compressed cigarette and eject the same from its position between the rollers 8 and 12.

35 In order to moisten the paper as the same is fed into position, I provide a U-shaped support 19 having its ends pivoted on the shaft of the idler roller 11 and having its bight portion disposed parallel to the roller 8. A channel shaped pad holder 20 has the felt or absorbent pad 21 positioned therein and is adapted to also receive the bight portion of the support which is wedged between the pad and one wall of the channel, the pad projecting outwardly of the channel.

40 A U-shaped paper supporting bed 22 has its ends pivoted on the shaft 9 of the roller 8 with its bight portion formed of strip material and bent so as to expose its flat outer surface flatwise to the exposed edge of the pad when the supports 19 and 22 are moved toward each other.

45 The paper 18 is preferably provided with an adhesive coating adjacent its rear edge and as the paper is fed across the bed 22 the pad is moved into position for wiping contact with the

rear edge to moisten the same and cause the securing of the end of the paper to form the cigarette.

It is believed the details of construction and manner of use of the device will be readily understood from the foregoing without further detailed explanation.

What is claimed is:

A moistening attachment for a cigarette making machine including a forming roller, said attachment comprising a U-shaped member having its ends pivoted to the machine and with its bight portion disposed parallel to the roller, an absorb-

ent pad carried by the bight portion of the member, and a second U-shaped member having its ends pivoted to the machine and provided with a flat bight portion to form a bed for a cigarette portion, said members being constructed and arranged for swinging toward each other into upstanding converging relation to oppose the pad and bed above the forming roller in gripping relation to a cigarette paper disposed on said bed and with the bed sloping downwardly toward said roller.

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