

R. E. FOWLER & T. TUCKERMAN.
 DEVICE FOR POINTING AND FINISHING CIGARS.
 APPLICATION FILED OCT. 13, 1909.

953,743.

Patented Apr. 5, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

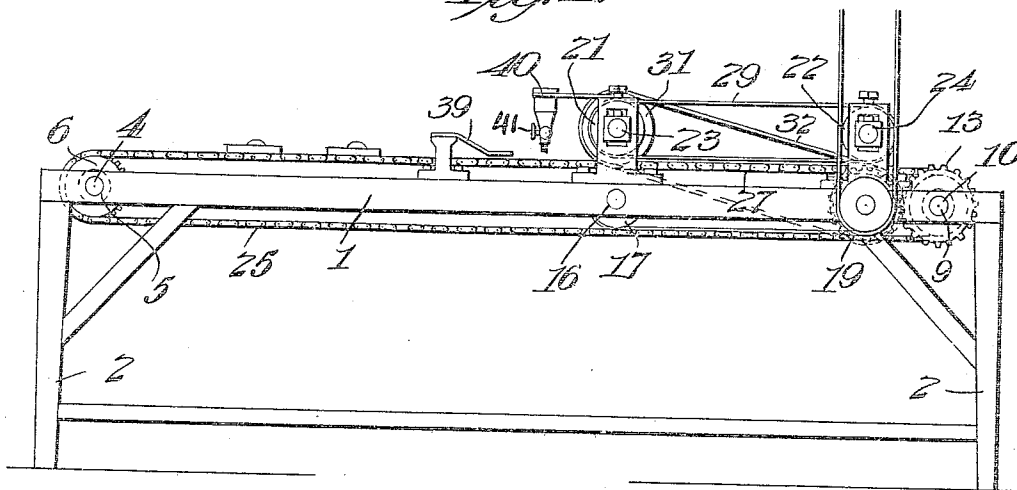
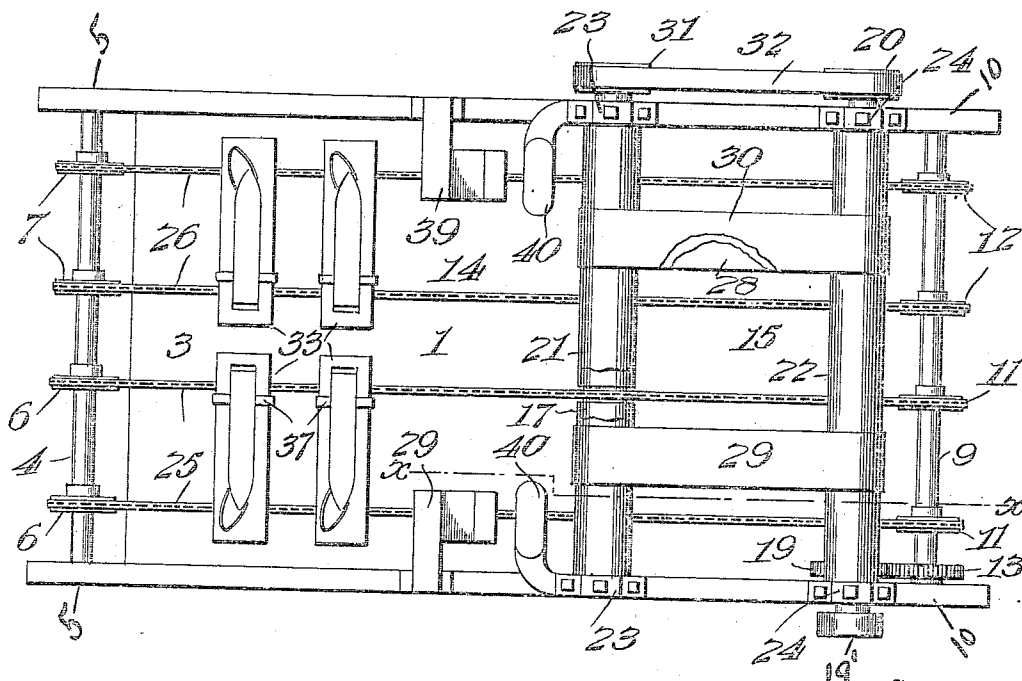


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

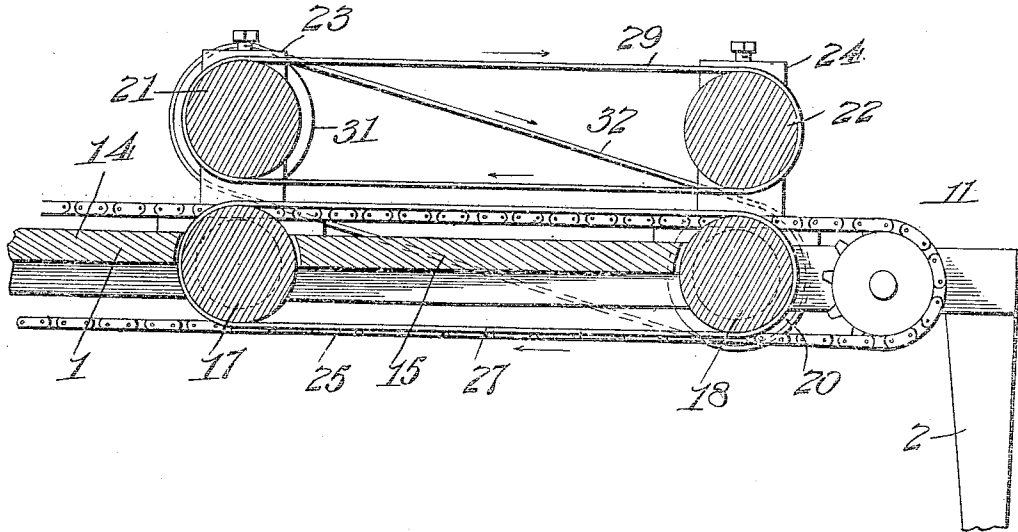


Fig. 4.

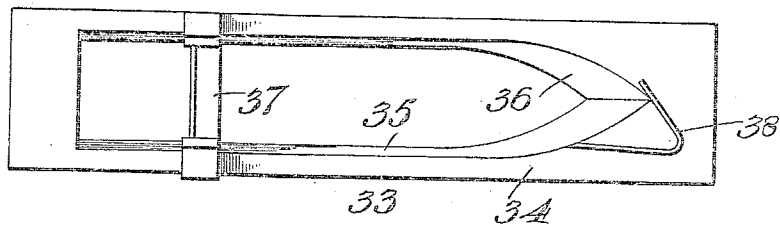


Fig. 5.

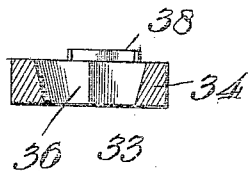
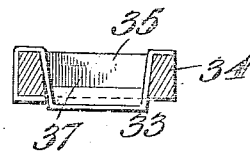


Fig. 6.



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UNITED STATES PATENT OFFICE.

ROY EDWARD FOWLER AND THOMAS TUCKERMAN, OF FREMONT, OHIO.

DEVICE FOR POINTING AND FINISHING CIGARS.

953,743.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed October 13, 1909. Serial No. 522,407.

To all whom it may concern:

Be it known that we, ROY EDWARD FOWLER and THOMAS TUCKERMAN, citizens of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Devices for Pointing and Finishing Cigars, of which the following is a specification.

10 This invention relates to devices for pointing and finishing cigars, and has particular reference to a device wherein the cigars, after being wrapped, are placed in suitable molds which are passed between tapes or
15 bands moving in opposite directions for providing a rotary movement of the cigars in the holders, whereby the ends of such cigars are pointed and finished.

20 To this end the invention consists in the novel construction, arrangement, and combination of the several parts of the device, as hereinafter described, illustrated in the drawing, and more particularly pointed out in the claims hereunto appended.

25 In the drawings:—Figure 1, is a side elevation of our improved cigar pointing and finishing device. Fig. 2, is a top plan view thereof, having portions thereof broken away. Fig. 3, is an enlarged section, broken
30 away, showing mechanisms for rotating the cigars for pointing and finishing. Fig. 4, is a plan view of one of the cigar pointing and finishing molds, showing the leaf cutting knife carried thereby. Fig. 5, is a vertical
35 cross-section of one of the molds looking toward one of the tapered ends thereof, and Fig. 6, is a vertical cross-section of one of the molds showing the adjustable cigar supporting brackets mounted therein.

40 Referring to the drawings by figures, the numeral 1 indicates the table of the device suitably supported on legs or standards 2, 2. At the forward end 3 of the table 1 is a shaft 4 journaled in suitable bearings 5, 5, carried by said table, and is provided with
45 suitable sprockets 6, 6, 7, 7, and at the opposite or rear end 8 of said table is a similar shaft 9 also journaled in bearings 10, 10, carried by said table, as shown, and is provided with the sprockets 11, 11, 12, 12, and
50 is also provided at one end thereof with a suitable pinion 13 for a purpose hereinafter stated.

55 The surface of the table 1 is formed of two sections 14 and 15 between which is mounted

in suitable bearings 16 a roll or shaft 17, and to the rear of the section 15, just forward of the shaft 9, is journaled in suitable bearings a roll or shaft 18, which is provided with a suitable pinion 19, adapted to
60 mesh with the pinion 13 on the shaft 9, whereby rotation may be transmitted from said roll or shaft 18 to said shaft 9, for a purpose hereinafter stated. On the outer end of the roll or shaft 18 is a suitable pulley 65 19', whereby rotation may be transmitted to said shaft 18 from any suitable source of power, and on the opposite end of said roll or shaft 18 is a suitable pulley 20, for a purpose
70 hereinafter stated. Above the roll or shaft 17 is a similar roll or shaft 21, and above the roll or shaft 18 is a similar roll or shaft 22, both of said rolls or shafts 21 and 22 being mounted in suitable bearings, 23, 23, and 24, 24, respectively, secured to the
75 table 1, as shown.

The numerals 25, 25, and 26, 26, indicate two sets of endless sprocket chains mounted upon and carried by the sprockets 6, 6, and 11, 11, and 7, 7, and 12, 12, respectively, of
80 the shafts 4 and 9, as is evident.

27 and 28 indicate endless bands or tapes, mounted upon and carried by the rolls or shafts 17 and 18. These bands or tapes 27, and 28 are so positioned on said rolls or
85 shafts that they will lie between the sprocket chains 25, 25, and 26, 26, respectively, and are for a purpose hereinafter stated.

29 and 30 indicate two endless bands or tapes mounted upon and carried by the rolls
90 or shafts 21 and 22. These bands or tapes 29, 30 are positioned above the bands or tapes 27, 28, respectively, and are adapted to act in conjunction with the said bands or tapes 27, 28, for a purpose hereinafter
95 stated. The outer end of the roll or shaft 21 is provided with a suitable pulley 31, and is adapted to be rotatably connected with the pulley 20, on the end of the roll or shaft 18 by an endless belt 32, whereby rotation
100 may be transmitted from said roll or shaft 18 to the roll or shaft 21, as is evident.

The numeral 33 indicates a cigar shaping and finishing mold, and consists of a suitable block 34 having therein a seat 35 open
105 at the bottom, about eight inches long with one end thereof tapered, as shown at 36, so that such seat will have, generally, the shape of a cigar. This seat is usually provided with an adjustable bracket 37 for the pur-
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pose of adapting the molds to hold cigars of different lengths, as is evident. Adjacent to the tapered end 36 of the seat 35 is a suitable knife or cutter 38, for a purpose hereinafter stated. This cutter may be of any suitable shape, but the shape shown is preferred. The molds 33 are securely mounted on the sets of sprocket chains 25, 25, and 26, 26, with the tapered ends 36 of the seats toward the outside of the machine, as shown, and are adapted to be rotated therewith, as is evident.

Secured to each side of the table 1 is a yielding presser-foot 39 so positioned that the knife 38 on the mold will pass directly beneath and contact with it, for a purpose hereinafter stated.

The numeral 40 indicates a suitable paste cup provided with a flow regulating valve 41, and is so positioned on the sides of the table 1 between the yielding presser-foot 39, and the roll or shaft 17, that paste will be placed on the cut end of the cigar wrapper as the mold passes thereunder, as is evident.

It is evident that instead of using sprockets and sprocket chains to carry the molds, ordinary endless belts or tapes may be used, but we prefer to use sprocket chains as by their use the molds will be positively held against displacement, the belts or tapes being apt to slip and thereby throw the molds from proper operative position. It is also evident that this device may be used in connection with any of the well known cigar wrapping machines now in common use.

The operation of the device is as follows:—The device having been assembled as described, and power applied thereto, wrapped cigars are placed in the molds with their butt-ends set toward the sides of the machine. The ends of the leaf that are to form the points are laid over the knives adjacent to the pointed ends of the molds; as the molds go forward the end of said molds pass beneath the presser-foot and the leaves lying over the knives are cut to the shape of said knives; the ends of the molds then pass beneath the ends of the paste-cups where paste is applied to the trimmed leaves. The molds are then passed onward between the belts or tapes, which, by reason of their opposite gearing, revolve in opposite directions, and the cigars in the molds, as they pass between such tapes, are given a rotary movement, whereby the trimmed leaf on the end of each cigar is wrapped around the point and finished; when the molds pass from between the tapes and over the rear roll or shaft 9, the finished cigar is dumped from the mold into any suitable receptacle, as is evident. This operation is continued as long as there are cigars to be pointed and finished.

The capacity of the device may be increased or diminished by placing on the

sprocket chains an increased or diminished number of molds, as is evident.

Having thus fully described our invention, what we claim and desire to secure by Letters Patent of the United States is,—

1. In combination with a device for pointing and finishing cigars, a horizontally traveling cigar-carrying mold, and means for automatically rotating a cigar in said mold during the travel of the same to point and finish the cigar.

2. In combination with a device for pointing and finishing cigars, a horizontally traveling cigar-carrying mold and a flap-cutter carried thereby, and means for automatically rotating a cigar in said mold during the travel of the same to point and finish the cigar.

3. In combination with a device for pointing and finishing cigars, a traveling cigar mold, and a set of oppositely traveling bands or tapes adapted to cause a wrapped cigar, carried by said mold and passing therebetween, to be rotated, whereby the same will be pointed and finished.

4. In combination with a device for pointing and finishing cigars, longitudinally traveling cigar-shaping and finishing molds, a knife or cutter on each mold, adjacent to its pointed end, a presser-foot adapted to coact with said knife to cut a leaf to the proper shape, and means rotating in opposite directions to cause a cigar seated in a mold to rotate as it passes therebetween, whereby said cigar will be pointed and finished.

5. In combination with a device for pointing and finishing cigars, a cigar-carrying mold having a cigar shaped seat therein, said seat being beveled inwardly and downwardly on its sides and pointed end and open at its bottom.

6. In combination with a device for pointing and finishing cigars, a cigar-carrying mold having a cigar shaped seat therein, said seat being beveled inwardly and downwardly on its sides and pointed end and open at its bottom, and a cigar-supporting bracket mounted in said seat between the ends thereof.

7. In combination with a device for pointing and finishing cigars, a cigar-carrying mold having a cigar shaped seat therein, said seat being beveled inwardly and downwardly on its sides and pointed end and open at its bottom, a knife carried by said mold adjacent to its pointed end, and a cigar-supporting bracket mounted in said seat between the ends thereof.

In testimony whereof we affix our signatures, in presence of two witnesses.

ROY EDWARD FOWLER.
THOMAS TUCKERMAN.

Witnesses:

JOHN J. LEHMANN,
WM. E. BAUMANN.