

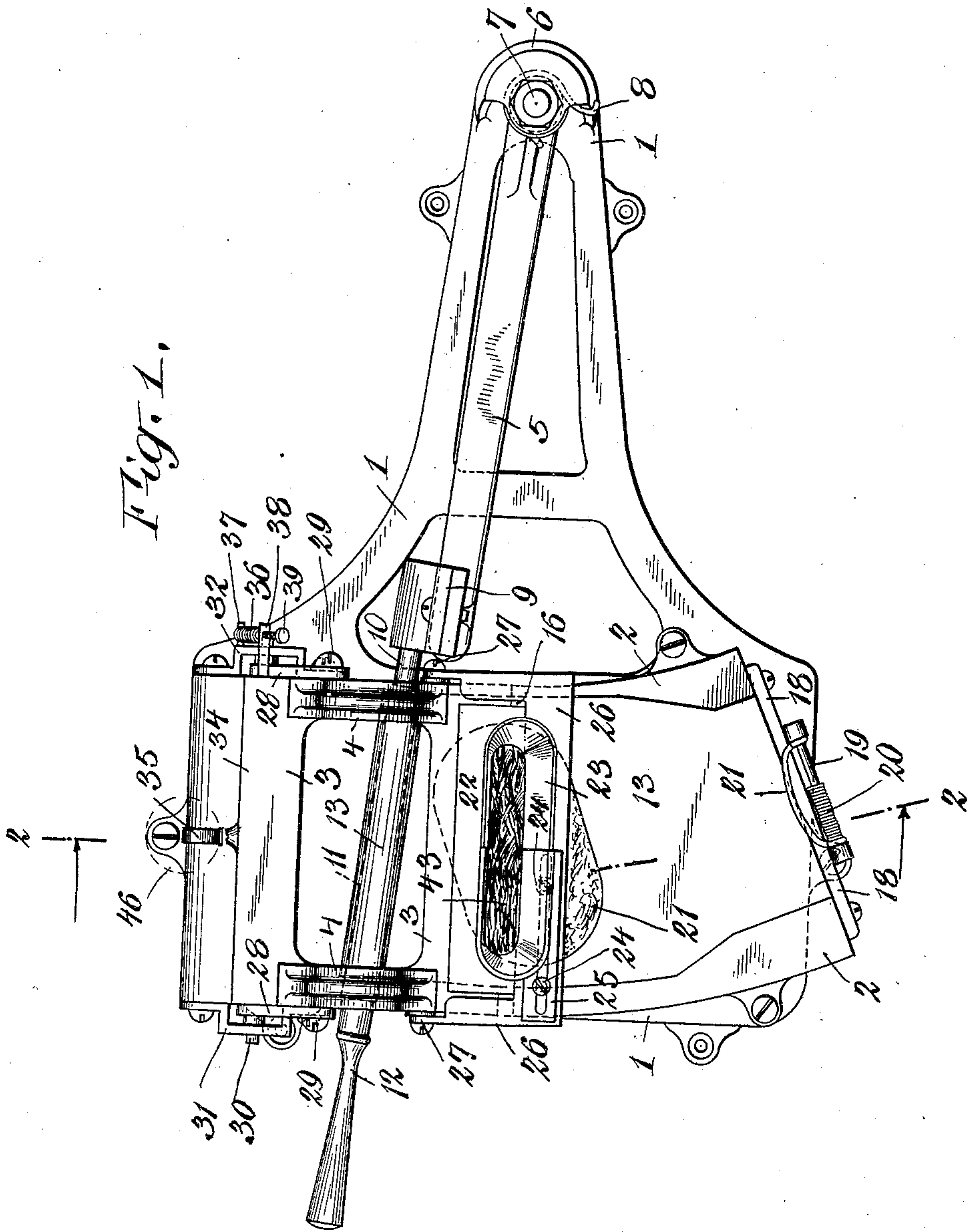
CIGAR MACHINE.

APPLICATION FILED JULY 27, 1908.

931,314.

Patented Aug. 17, 1909.

2 SHEETS--SHEET 1.



WITNESSES

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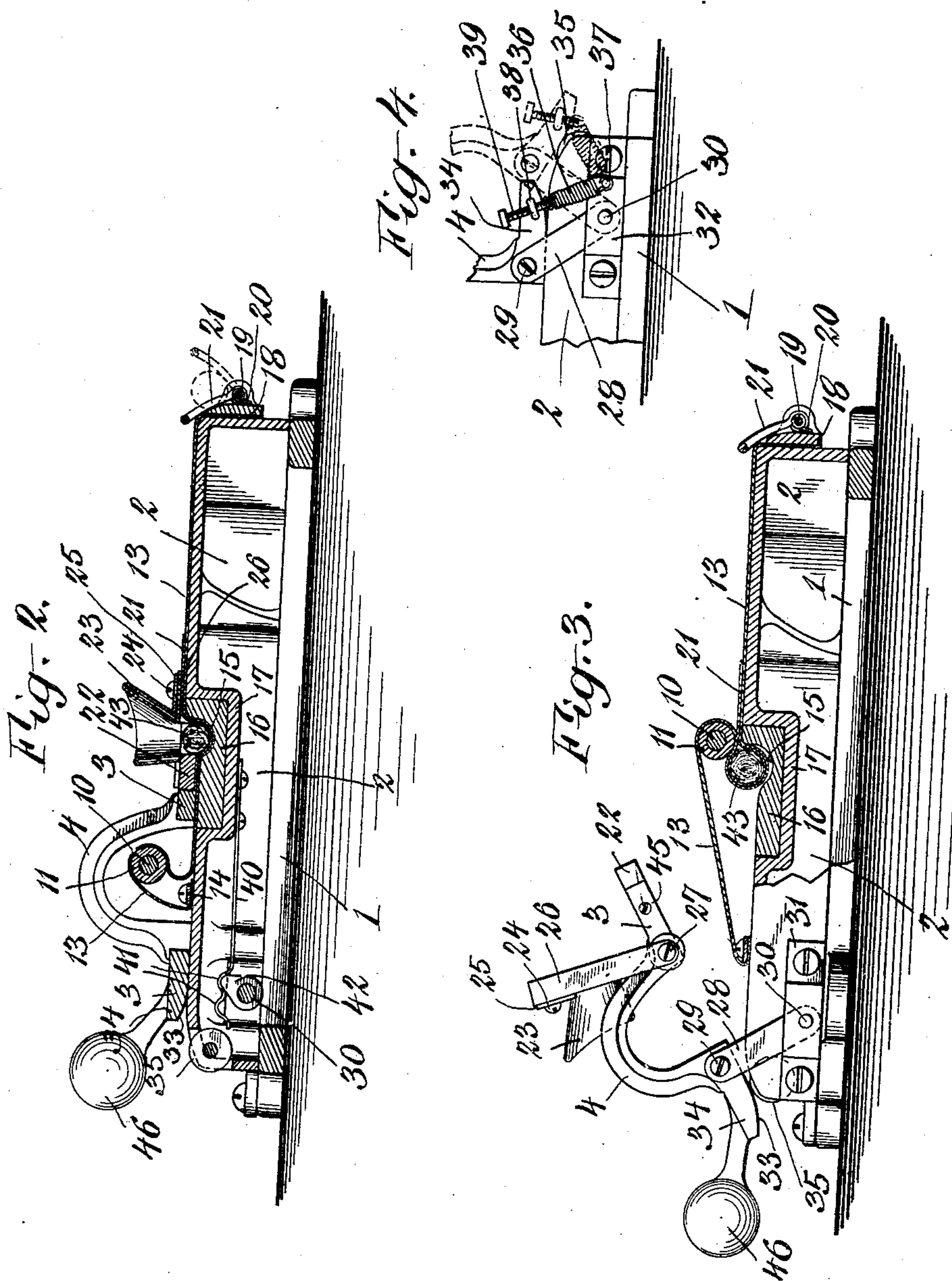
BY

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F. E. KELSEY.
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WITNESSES
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UNITED STATES PATENT OFFICE.

FREDERICK E. KELSEY, OF KINGSTON, NEW YORK.

CIGAR-MACHINE.

No. 931,314.

Specification of Letters Patent.

Patented Aug. 17, 1909.

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To all whom it may concern:

Be it known that I, FREDERICK E. KELSEY, a citizen of the United States, and resident of Kingston, in the county of Ulster and State of New York, have made certain new and useful Inventions Relating to Cigar-Machines, of which the following is a specification, taken in connection with the accompanying drawings.

10 This invention relates to cigar machines and relates especially to rolling table machines in which a mold having a movable section coöperates with the table and apron so that the filler can be arranged in this mold in position to be directly engaged in the bight of the apron when the roll is moved forward.

20 In the accompanying drawings showing in a somewhat diagrammatic way an illustrative embodiment of this invention and in which the same reference numeral refers to similar parts in the several figures, Figure 1 is a plan view. Fig. 2 is a side sectional view substantially along the line 2—2 of Fig. 1; Fig. 3 is a similar section with the parts in different position. Fig. 4 is a detail view.

30 In the illustrative embodiment of this invention shown in the drawings the support 1 may be made of cast iron or other material so as to properly support the working parts of the machine. The roll lever 5 may as indicated in Fig. 1 be mounted in suitable vertical pivots 7 in the bracket 6 at the end of the support, and if desired, a suitable spiral spring 8 may be mounted on this lever and support tending to normally return the lever and roll to their rearward position. The clamp 9 may be used to rigidly secure the roll-shaft 10 to the lever, the roll 11 being of course loosely mounted on this shaft which has the operating handle 12 secured to its outer end so that the roll may at the proper time be drawn forward over the table 2. The apron 13 of any desired material, such as light rubber cloth may be mounted so as to properly coöperate with the table and roll as by securing its front edge by the clamp 18 which may also serve to carry the spring clip 21 loosely mounted on the pin 19 and lightly held back against the apron by the spiral spring 20 so as to properly engage and hold the finished bunch, see Fig. 2. The rear edge of the

apron may be secured in position by the fastening strip 14, screwed or otherwise secured to the table.

A suitable receiving mold 15 is preferably formed at the rear end of the rolling table proper to receive and shape the filler to the desired extent, the apron being passed into the mold and under the movable rear section thereof so that the apron forms the lower and front face of the mold. The mold block 16 may be seated and held in a suitable cavity 17 in the table so as to form the mold 15 of the desired shape, these blocks as well as the coöperating mold sections being interchangeable so as to give the desired shape to the cigar bunch. The movable rear section 22 of the mold may be supported in any desired way so as to be moved out of the path of the apron and roll when the filler and binder have been put in place. The mold frame 3 may be used for this purpose, the movable section or rear mold side 22 being held in the frame by suitable means such as the screws 45 and being of course interchangeable as indicated. The frame is preferably formed with suitable yokes 4 to accommodate the roll when in its rearward inoperative position as indicated in Fig. 2. The frame may be mounted by the pivots 29 engaging the ends of the rock arms 28, these arms being secured to the rock shaft 30 extending through the table and preferably carrying a suitable cam 42 engaging the spring-catch 40 so that the cam is yieldingly held in one of the notches or holding depressions 41 so as to hold the rocker arms and frame in desired position. The holding spring 36 may also be used if desired to assist in this action, the spring as indicated in Fig. 4 extending from the pin 37 in the table to a suitable adjusting screw 39 in extension 34 of the frame. In this way the frame is held with the desired firmness in its charging position shown in Fig. 2 or in its raised inoperative position shown in Fig. 3, the extension 34 being preferably guided during the movement of the frame by the anti-friction roller 35 mounted in the rear of the table, the counterweight 46 also being used if desired to hold the frame in its raised position. A suitable retainer engaging and holding the binder or inner wrapper 21 in position on the apron may if desired be secured to the mold frame, the retainer 26

being indicated as pivoted to the frame by the pivot screws 27, the weight of the retainer being sufficient to properly hold the front edge of the wrapper in position on the apron while the filler is being inserted into the mold. A suitable funnel guide 23 may be secured to the retainer to assist the operator in arranging the filler and if desired this guide may be formed in several adjustable sections so as to adjust its length to correspond to the size of mold and cigar.

As indicated in Fig. 1, the movable guide section may be secured to the retainer 26 by suitable screws 24 engaging a slot in the supporting plate or bracket 25 carrying the movable section.

After the binder has been placed upon the apron the mold frame and retainer are brought down into the charging position shown in Fig. 2, the retainer holding the front portion of the binder in place. The filler of scrap or other tobacco is then inserted and properly distributed throughout the different parts of the mold. The retainer is then swung up on the frame and the frame moved upward and rearward into the position indicated in Fig. 3, the filler 43 being left in the mold 15 in engagement with the binder and apron at the front face of the mold. The roll is then moved forward, catching the filler in the bight of the apron as shown in Fig. 3 without interfering with the desired distribution or packing of the filler. The rolling operation is then completed in the usual way, the rolled bunch being left in the clip at the front of the table.

Having described this invention in connection with an illustrative embodiment thereof, to the details of which disclosure the invention is not of course to be limited, what is claimed as new and what is desired to be secured by Letters Patent is set forth in the appended claims.

1. In cigar machines, a support, a table mounted on said support, an apron secured to said table, a roll pivotally mounted on said support to cooperate with said apron and table, an interchangeable mold block removably mounted in said table adjacent the rear of the same, a rock-shaft mounted in said table, rock arms rigidly mounted on said rock-shaft, a cam on said rock-shaft, a spring catch having retaining depressions cooperating with said cam, a mold frame pivoted to said rock arms and having yokes to accommodate said roll, an interchangeable rear side for said mold removably mounted in said frame to form a receiving mold when in position on said apron, said apron forming the front face of said mold, a counterweight and holding spring cooperating with the rear extension of said mold frame to hold the same in raised inoperative position, a movable retainer pivoted to said mold frame to engage and retain a binder in posi-

tion on said apron and a guide mounted on said mold frame through which filler material may be inserted into said mold.

2. In cigar machines, a support, a table mounted on said support, an apron secured to said table, a roll mounted on said support to cooperate with said apron and table, an interchangeable mold block mounted in said table adjacent the rear of the same, a rock shaft mounted in said table and carrying rock arms, a mold frame pivoted to said rock arms and having yokes to accommodate said roll, an interchangeable rear side for said mold mounted in said frame to form a receiving mold when in position on said apron, said apron forming the front face of said mold, a movable retainer mounted on said mold frame to engage and retain the front portion of a binder in position on said apron and an adjustable funnel guide mounted on said retainer through which filler material can be inserted into said mold.

3. In cigar machines, a table, an apron cooperating with said table, a roll mounted to cooperate with said apron and table, a mold block mounted in said table adjacent the rear of the same, a rock shaft mounted in said table, a mold frame connected with said rock-shaft and having means to accommodate said roll, a rear side for said mold mounted in said frame to form a receiving mold when in position on said apron, said apron forming the front face of said mold and a funnel guide connected with said mold frame through which filler material may be inserted into said mold.

4. In cigar machines, a table, an apron secured to said table, a roll mounted to cooperate with said apron and table, a mold block mounted in said table adjacent the rear of the same, a rock shaft mounted in said table and carrying rock arms, a mold frame mounted on said rock arms and having yokes to accommodate said roll, a rear side for said mold mounted in said frame to form a receiving mold when in position on said apron, said apron forming the front face of said mold, a movable retainer mounted on said mold frame to engage and retain the front portion of a binder in position on said apron and a funnel guide on said mold frame through which filler material can be inserted into said mold.

5. In cigar machines, a table, an apron secured to said table, a roll mounted to cooperate with said apron and table, a mold block in said table adjacent the rear of the same, a mold frame cooperating with said table, a rear side for said mold mounted in said frame to form a receiving mold when in position on said apron, said apron forming the front face of said mold and a retainer mounted on said mold frame to engage and retain a binder in position on said apron.

6. In cigar machines, a table, an apron

coöperating with said table, a roll coöperat-
ing with said apron and table, a mold
formed in said table adjacent the rear of the
same, a mold frame coöperating with said
5 table, a section of said mold mounted in said
frame to form a longitudinal side of said re-
ceiving mold when in position on said apron,
said apron forming a face of said mold, and
means to guide said mold frame as it moves
10 out of charging position so as not to sub-
stantially disturb the filler arranged in said
mold.

7. In cigar machines, a table, an apron
coöperating with said table, a roll mounted

to coöperate with said table, means normally 15
tending to return said roll to its rearward
inoperative position, a mold formed in said
table adjacent the rear of the same, a mold
frame movably connected with said table and
a mold section in said mold frame to form 20
when in position on said apron a longi-
tudinal side of said receiving mold, said
apron forming part of the face of said mold
to receive the filler.

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Witnesses:

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