

L. FISCHER.
 LABELING AND STAMPING MACHINE.
 APPLICATION FILED SEPT. 4, 1909.

990,532.

Patented Apr. 25, 1911.

5 SHEETS—SHEET 1.

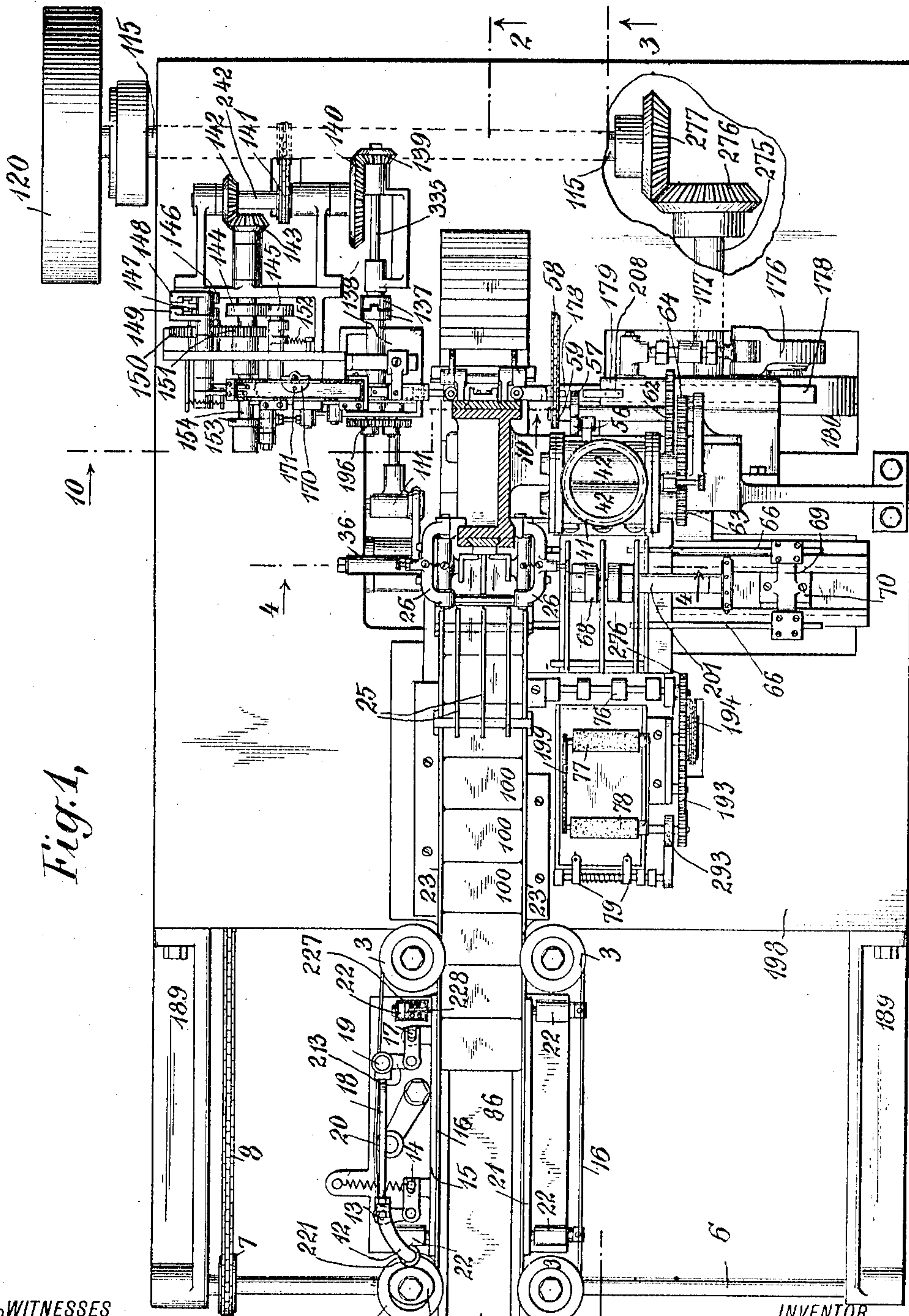


Fig. 1,

WITNESSES
Joseph J. Collins
Albert C. Phayer

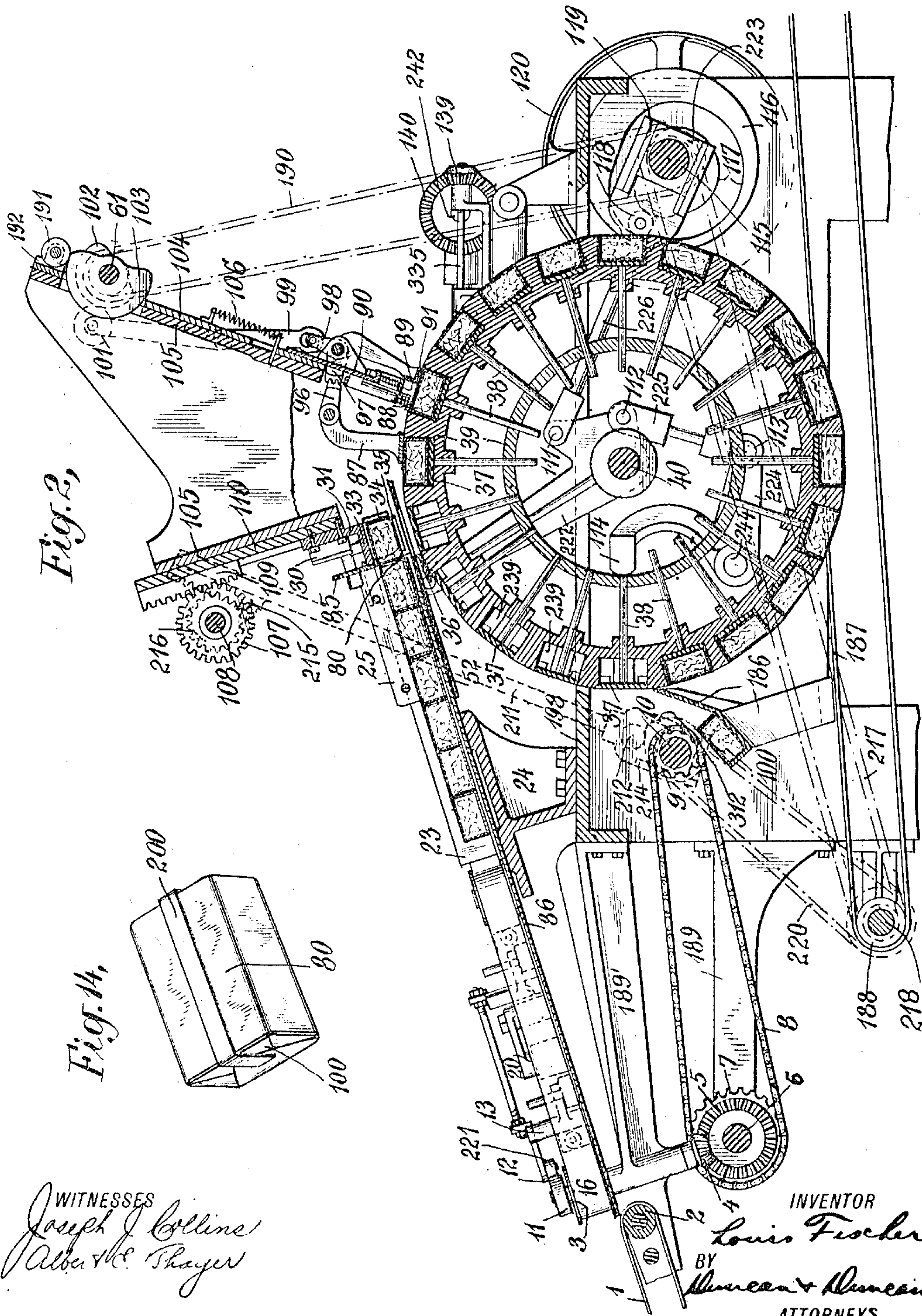
INVENTOR
Louis Fischer
 BY
Hummer & Hummer ATTORNEYS

L. FISCHER.
 LABELING AND STAMPING MACHINE.
 APPLICATION FILED SEPT. 4, 1909.

990,532.

Patented Apr. 25, 1911.

5 SHEETS—SHEET 2.



WITNESSES
Joseph J. Collins
Albert C. Thayer

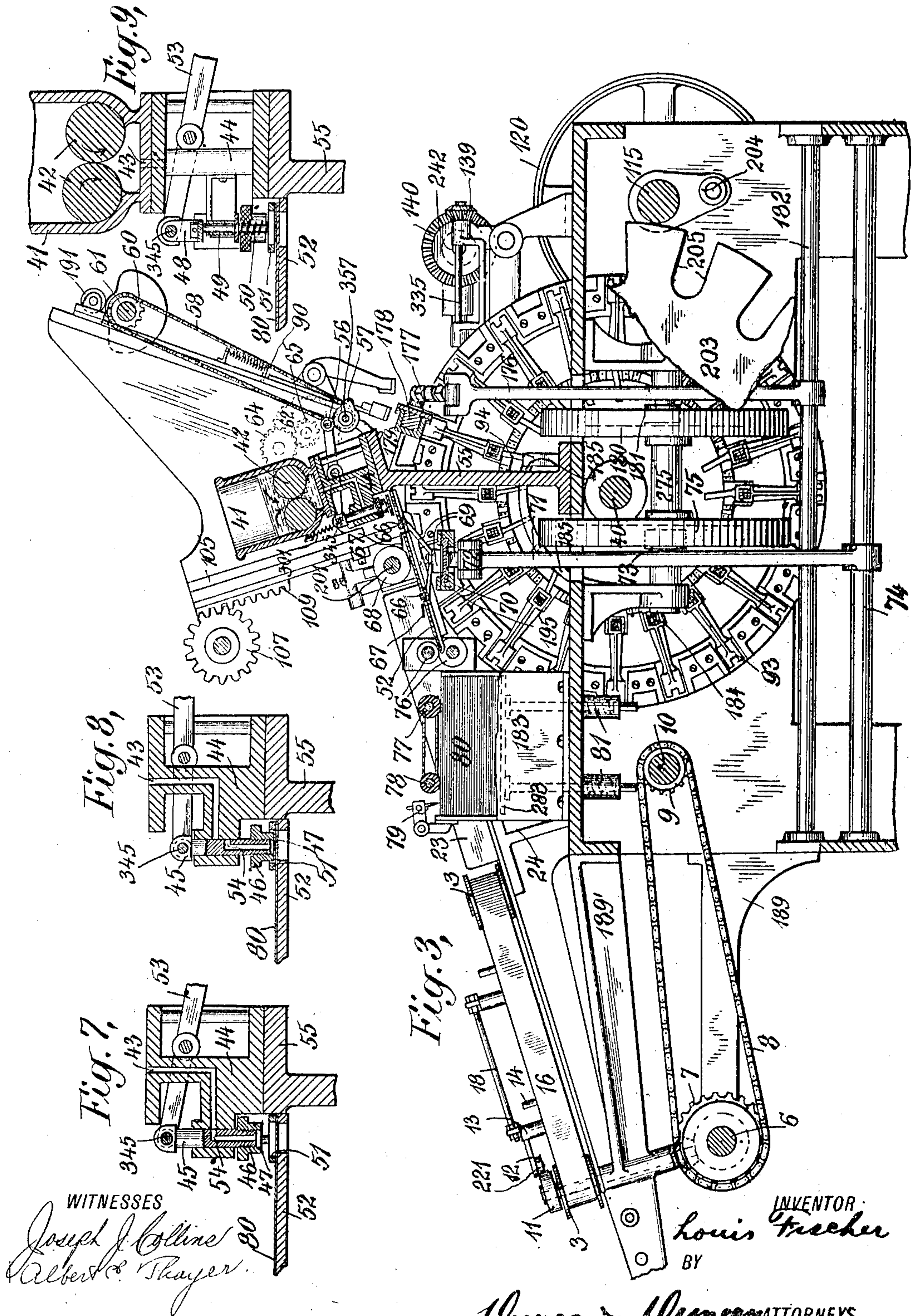
INVENTOR
Louis Fischer
 BY *Wm. & Wm. & Wm.*
 ATTORNEYS

L. FISCHER.
 LABELING AND STAMPING MACHINE.
 APPLICATION FILED SEPT. 4, 1909.

990,532.

Patented Apr. 25, 1911.

5 SHEETS—SHEET 3.



WITNESSES
 Joseph J. Collins
 Albert C. Thayer.

INVENTOR
 Louis Fischer
 BY

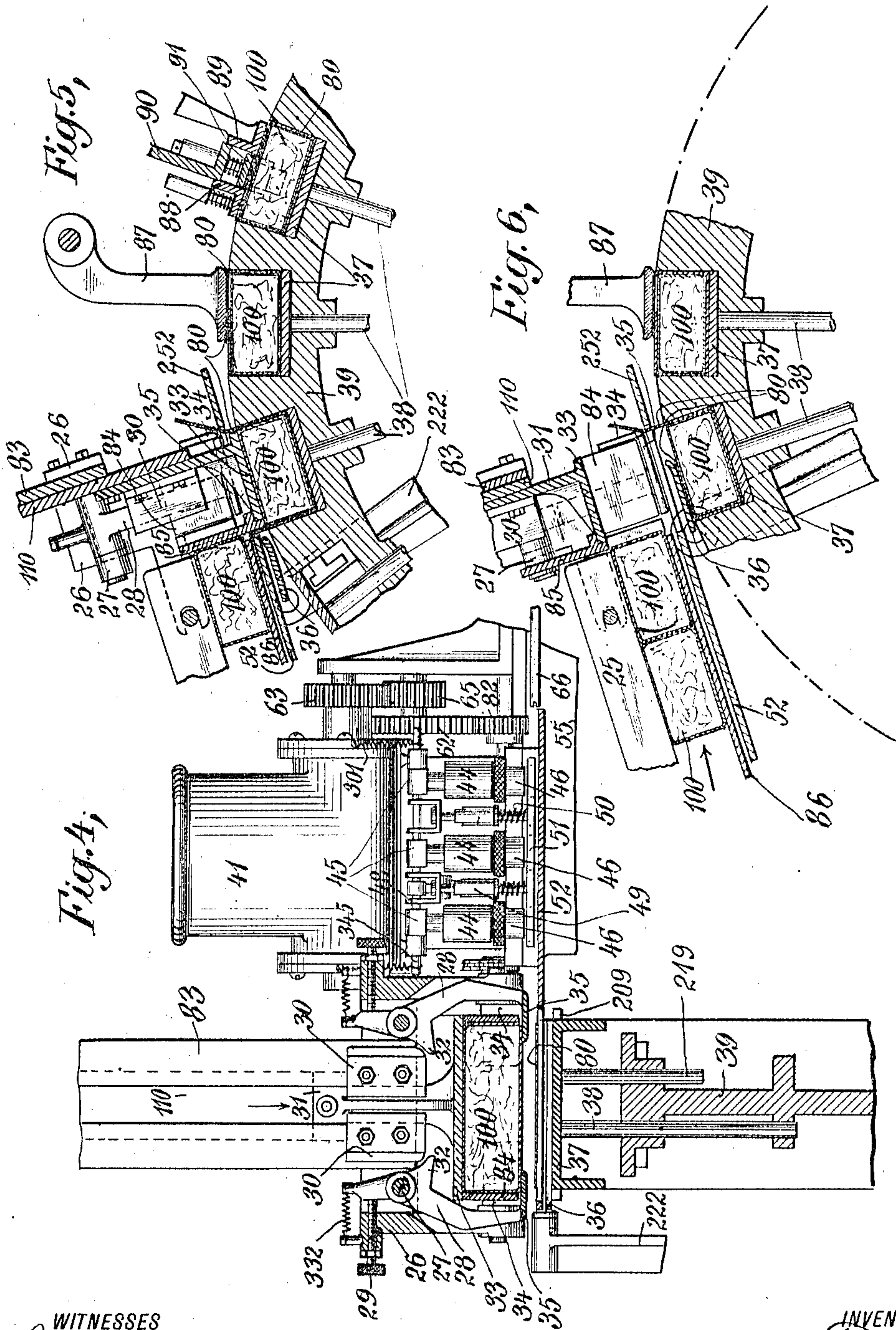
Almeida & Almeida ATTORNEYS

L. FISCHER.
 LABELING AND STAMPING MACHINE.
 APPLICATION FILED SEPT. 4, 1909.

990,532.

Patented Apr. 25, 1911.

5 SHEETS-SHEET 4.



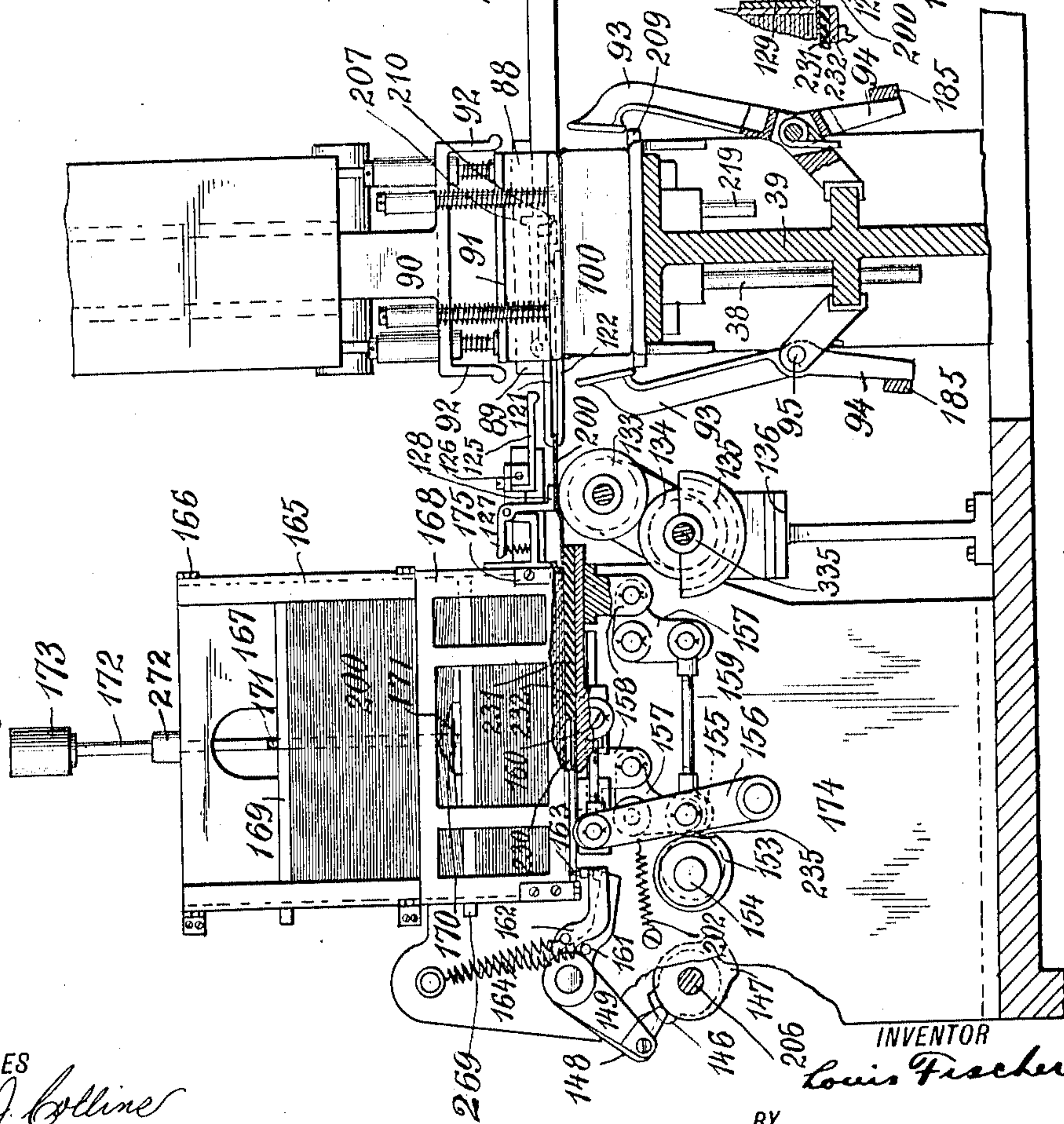
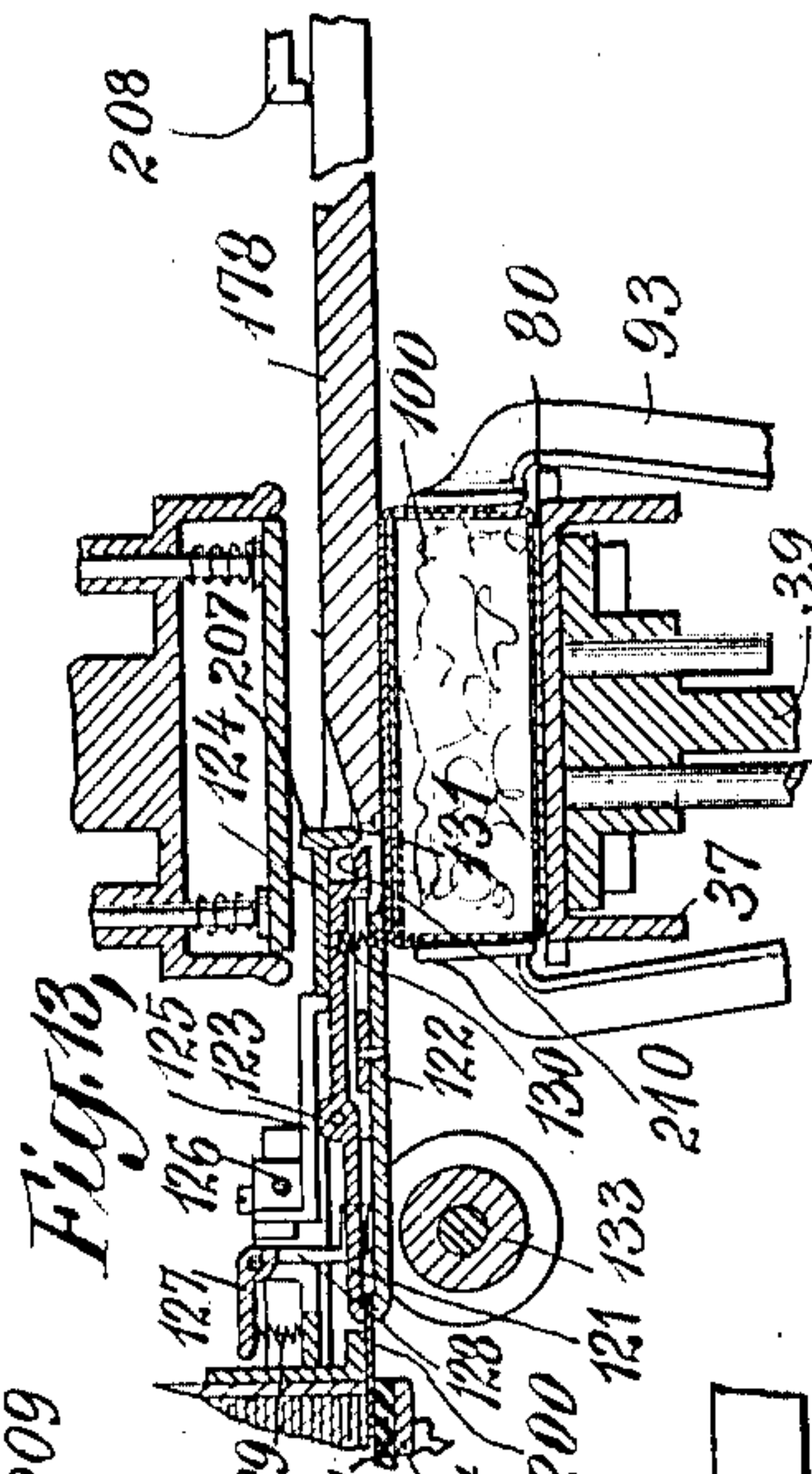
WITNESSES
Joseph J. Collins
Albert C. Thayer

INVENTOR
Louis Fischer
 BY

Huncan & Huncan ATTORNEYS

990,532.

5 SHEETS—SHEET 5.



WITNESSES
Joseph J. Collins
Albert L. Thayer.

206
INVENTOR
Louis Fischer
BY

Blumenthal & Blumenthal ATTORNEYS

UNITED STATES PATENT OFFICE.

LOUIS FISCHER, OF NEW YORK, N. Y., ASSIGNOR TO WRIGHTS AUTOMATIC TOBACCO PACKING MACHINE COMPANY, OF LYNCHBURG, VIRGINIA.

LABELING AND STAMPING MACHINE.

990,532.

Specification of Letters Patent.

Patented Apr. 25, 1911.

Application filed September 4, 1909. Serial No. 516,225.

To all whom it may concern:

Be it known that I, LOUIS FISCHER, a citizen of the United States, and resident of the city, county, and State of New York, have made certain new and useful Inventions Relating to Labeling and Stamping Machines, of which the following is a specification, taken in connection with the accompanying drawings.

This invention relates to labeling and stamping machines and relates especially to machines for labeling and stamping wrapped packages of tobacco or other articles.

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 transverse section taken substantially along the line 2—2 of Fig. 1. Fig. 3 is a similar section along the line 3—3. Fig. 4 is a partial vertical section on a larger scale along the line 4—4 of Fig. 1. Figs. 5 and 6 are enlarged partial transverse sections through the mold wheel along the line 2—2 of Fig. 1. Figs. 7, 8 and 9 are enlarged transverse sections showing details of the label paster taken along the same line as Fig. 3. Fig. 10 is an enlarged section along the line 10—10 of Fig. 1 showing the stamp feeder and applying devices. Figs. 11, 12 and 13 are similar sectional views showing different stamp applying operations, and Fig. 14 shows in perspective the completed package.

Mold wheel.—The rigid frame may be formed in any desired way and as illustrated comprises the plates 189, 198 and various brackets such as 105 supporting different parts. The drive shaft 115 mounted in suitable bearings in the frame, may be operated by its drive pulley 120 and the sprocket shaft 10 and cam shaft 61 are similarly mounted in the frame so as to be parallel to the drive shaft and are driven from it at the same speed in any desired way. For example, the cam shaft may be driven by a suitable sprocket chain 190 passing over similar sprockets on the shafts 115 and 61. A similar sprocket chain 217 drives the discharge shaft 218 from the drive shaft so as to operate the discharge belt 187. The sprocket chain 220 serves to drive the sprocket shaft 10 from this discharge shaft, the size of the various sprockets being so

chosen that the sprocket shaft 10 shall as indicated, have the same speed of rotation as the drive shaft. The mold shaft 40 is similarly mounted in the frame and carries the mold wheel 39 which, together with its sleeve, are loosely mounted on the shaft and secured to the usual star wheel 203, indicated in Fig. 3. This star wheel is provided with drive slots 205 corresponding in number and spacing with the molds 239 in the mold wheel so that suitable intermittent driving mechanism such as the drive roll 204 on drive shaft 115 can give an intermittent, step by step, rotation to the mold wheel so as to carry each mold forward from one station to another and hold the mold wheel stationary at the various stations while the different operations are being performed. The mold plungers or plates 37 may be mounted in the different molds 239 by supporting them on the plunger rods 38 guided in suitable holes in the mold wheel 39 and also if desired, connecting suitable plunger stems 219 to the plungers and guiding them in a similar way so as to maintain the proper alinement of the plungers as they are moved in the different molds. These plunger rods are actuated by the ejector 114 shown in Fig. 2, to eject the completed packages 100 from the mold wheel at the proper time so that they can slide down the inclined chute 186 upon the discharge belt 187 to be carried from the machine. This ejector may be mounted upon the pivot 244 in the frame and operated by connecting the link 225 to the arm 224 of the ejector by the pin 113. A similar pin 112 connects this link to the folder arm 222 loosely mounted on the mold shaft 40 and carrying the folder 36 at its free end so as to cooperate with the receiving mold in the mold wheel and fold the rear edge of the label over the package at the proper time. The pin 111 connects this folder arm with the folder rod 226 which may be guided at its other end by providing it with suitable guides 119 cooperating with the guide block 223 loosely mounted on the drive shaft 115. The cam follower 118 mounted on this folder rod cooperates with the closed cam groove 117 in the cam 116 fixed on the drive shaft so as to oscillate the folder 36 and ejector 114 at the proper times.

Package feed.—Where tobacco packages are to be labeled and stamped they may be

conveyed from the tobacco wrapping machine by the belt 1 passing over the belt pulley 2 mounted in the bracket 189' of the frame so as to deliver them upon the feed plate 86, mounted on the bracket 24 of the frame. This feed plate is preferably arranged at such an incline that the packages or other articles normally tend to slide back along it and are fed forward toward the mold wheel and inserting devices by a suitable intermittently acting package feed which feeds the foremost package into definite inserting position against the aliner 34. This package feed may, as indicated in Figs. 1 and 2, comprise suitable gripping guides 15, 21 mounted on either side of the feed plate and relatively movable so as to intermittently force the feed belts 16 into gripping engagement with the packages 100 and carry them forward on the feed plate to the desired extent. These feed belts may, as indicated, be mounted on the belt pulleys 3, the rear pulleys as shown in Fig. 2 being mounted on shafts carrying at their lower ends the bevel pinions 5 which cooperate with the bevel gears 4 on the feed shaft 6. This shaft may be rotated continuously at the desired speed by the sprocket 7 on this shaft connected by the sprocket chain 8 with a suitable sprocket 9 on the sprocket shaft 10. The relative movement of the gripping guides may be effected by intermittently moving each of them, or as indicated in the drawings, by having the guide 21 just outside its feed belt adjustable by means of the screw adjusting devices 22 and by having the opposing gripping guide 15 intermittently moved at the proper time. This guide may, as indicated, be slidably mounted by connecting it with suitable plungers 228 operating in the guiding cylinders 22 secured to the frame and suitable springs 227 may if desired, be mounted in these cylinders so as to have a retracting action on the guide 15. The guide cam 11 may be engaged by the follower 221 mounted on the guide arm 12 connected in any desired way with the guide plate 15 so as to force it into gripping position long enough during each cycle of the machine so that the feed belts tend to move the packages forward somewhat more than the width of a single package so that the foremost package is definitely forced against the aliner. After the inserting operation has taken place the feeding pressure on the next package is relieved. Suitable pins such as 19 connect the guide arm and its extension 18 with the two guide levers 13, 213 which are pivoted to the frame and whose free ends loosely embrace the pivots 14, 17 secured to the gripping plate 15 so as to effect this action. The tightening roll 20 may be adjusted so that its feed belt 16 is kept at proper tension.

The inserter 33 as is indicated in Figs. 2,

4, 5 and 6, may be secured by the member 31 to the inserter slide 110 operating in suitable guideways on the bracket 105 and having at its upper end the rack 109. This rack may be engaged by the gear 107 on the shaft 108 in the frame which also carries the gear 216 meshing with the operating rack 215 on the inserter bar 211. This bar carries at its lower end the guides 214 loosely embracing the sprocket shaft 10 and also carries the cam follower 212 which may engage a suitable open or closed cam such as 312 which holds the inserter in its raised inoperative position for the desired time and gradually forces it downward, carrying the package or other article into the mold which is in the inserting or receiving position. The inserter flanges 84 at this time engage the plunger lugs 209 at either side of the mold plungers so as to positively carry the plungers down to the bottom of the molds without unduly compressing the packages. This inserter may, as indicated, in Fig. 5, be provided with the flat rear face 85 rigidly secured to the working face 33 so as to form a flat surface for engagement with the package 100 which is also held downward by the presser or holding block 25 which may be of skeleton construction and which serves to minimize disarrangement of the packages as the inserter rises, see Fig. 6. When the inserter is in its raised position as shown in Fig. 6, the leading package 100 is yieldingly fed forward by the intermittently operating feed belts 16 described, so as to carry it over the suitable spring folding or removable supports 35 at either end and into engagement with the aliner 34 so that it is accurately aligned beneath the inserter. As the inserter descends these supports move out of the path of the package and this may if desired, be positively effected by mounting these supports 35 on the support arms 28 pivoted about the pins 27 in the bracket 26, as shown in Fig. 4. These arms may, as indicated, be provided with the inclined releasing fingers 32 in the path of the openers 30 secured to the inserter member 31 so that as the inserter begins to descend the support arms and connected supports are quickly swung outward, releasing the package and allowing it to fall upon the label 80 beneath, which is of course carried with the package into the mold. The active position of these supports may be conveniently adjusted by having the light springs 332 engage the upper free ends of the support arms and normally force them against the adjusting screws 29 in the bracket 26.

Label paster.—The label paster may be constructed as indicated in Figs. 3 and 7 to 9 and may comprise the paste receiver 41 mounted on the bracket 55 of the frame and supporting the paste drums 42 which are rotated to carry a thin film of paste between

them which is disengaged by the cooperating lower surfaces of the paste receiver so that a properly worked supply of paste is fed forward in a fairly positive manner through the passages 43 in the paste support 44. The paste heads 46 may be provided with the facing 47 of gauze or other perforated material so as to properly distribute the paste upon the label 80 beneath and these heads may, as indicated, be mounted upon the stems 45 which are provided with the passages 54 communicating when raised with the paste receiving passages 43 in the support. The paste rod 345 passes through the ends of the stems 45 and is operated by the paste levers 53 carrying at their free ends the rolls 56 which cooperate with the cams 57 so as so momentarily force the paste rod and the connected heads down to engage and apply paste to the label 80 which may be yieldingly supported by cutting away a portion of the label feed plate 52 as indicated; the light springs 301 engaging this rod normally tend to raise it and hold the cam rod and follower in co-operation. If desired, a suitable stripper 51 may be used in connection with the paster and operated by mounting it on suitable studs whose heads loosely engage the yokes 48 on the paste rod 345 as indicated in Figs. 4 and 9, while the springs 40 operate between the stripper and the bracket 49 secured to the paste support 44. This paste device may be operated from the cam shaft 61 by the sprocket chain 58 which engages the sprocket wheel 60 on that shaft and a corresponding sprocket connected with the cam 357 which also carries a suitable spur gear meshing with the gear 62 secured to the gear 65 as shown in Fig. 3. This gear 65 meshes with an intermediate 64 which drives the paste rolls by meshing gears thereon, as indicated.

Label feed.—The labels 80 to be applied to the packages may be supplied one at a time from the label box 183 by any desired form of feeder, for example, the stack of labels may be normally forced forward by the plate 283 and cooperating springs 81 so that the upper label is forced into engagement with the separating or feed rolls 77, 78 operated in unison by the belt or sprocket chain 199, as indicated in Figs. 1 and 3. These separator rolls 77, 78 may be operated at the proper time to feed a sheet of paper forward by suitable gearing 193 operated by the sprocket chain 194 connected to a suitable sprocket on the sleeve of the mold wheel 39 as is well known in this art and suitable stationary or intermittently retracted separating piercers 79 may engage the rear edges of the top sheets of the stack and be retracted if desired at the proper times by a suitable cam 293. The feed rolls 76 which thereupon engage and feed forward the paper over the label feed plate or platform 52, may as in-

dicated, be driven by the gears 276 meshing with the gearing 193. In this way the label is fed beneath the inclined label guides 67 and the alining rolls 68 on the shaft 201 which may be intermittently rotated at the proper time to frictionally feed the paper forward to the full extent so that it will properly cooperate with the paste device which comprises the paste receiver 41. After the label is pasted it is fed forward over the label feed plate by the pushers 66 connected with the pusher slide 70 by the arms 69. The pusher lever 72 is connected with and operates this pusher slide and may be pivoted about the rod 74 and operated by its cam follower 73 which engages the pusher cam 75 on shaft 275 which, as indicated in Fig. 1, is geared to the drive shaft 115 by the bevel gears 276, 277. In this way the pasted label 80 is fed forward into inserting position beneath the package 100 as is shown in Fig. 4 so that it rests upon the label feed plate 52 which is shown in Figs. 5 and 6.

Label and stamp folding.—When the inserter 33 moves downward into the position indicated in Fig. 5 it carries with it the plunger 37, package 100 and label 80, that is the ordinary label in the case of tobacco packages previously inclosed in paper or tin foil wrappers or similar or other labels or paper wrappers in the case of other articles. This label thereupon assumes the position indicated with its forward edge upstanding adjacent the turner 252 or forward portion of the label feed plate 52, while the rear edge of the label is in the path of the folder 36 and when the inserter has been raised into the receiving position indicated in Fig. 6 the folder 36 is swung forward, carrying the rear edge of the label 80 over into close engagement with the package 100 in this mold. When the mold wheel is advanced one step, carrying this package forward from the inserting position the turner 252 bends the free edge of the label backward over the package, making a fold in the label at the point where it engages the front edge of the package. At the succeeding station the closer 87 is brought down upon this front pasted edge of the label, forcing it against the other free edge of the label. This closer 87 may, as indicated in Fig. 2, be pivoted in the frame and operated by the closer arm 96 provided with suitable gear teeth meshing with the cooperating geared tightener arm 97 on the end of the pivoted tightener 91. The operating arm 98 of this tightener engages a suitable slot in the tightener lever 99 pivoted in the frame bracket 105 and carrying at its upper end the cam roll 101 cooperating with the tightener cam 102 on the cam shaft 61 so that the closer 87 and tightener 91 are simultaneously brought into engagement with the labels at the two stations indicated.

At the presser station the package to which the stamp 200 has been fed by the gripper 121, as indicated in Fig. 11, is engaged by the presser devices mounted on the presser head 90 which is secured to the slide 104 shown in Fig. 2. This slide is guided in suitable guideways on the bracket 105 and is normally drawn downward by the spring 106 so as to bring the cam follower 191 mounted in the support 192 at the top of this slide into engagement with the presser cam 103 on the cam shaft 61. As is seen in Figs. 5 and 11 to 13, the presser head 90 yieldingly supports the presser 91 which is normally forced downward away from the head by the springs 132 which carry the studs 121 on the ends of the presser rods into engagement with the cooperating ends of the guide sleeves. In this way as the presser head descends the presser 91 is first brought into engagement with the pasted stamp 200 and then after the presser head has moved downward sufficiently so that the presser is forced back against its springs the tuckers 92 mounted on the presser head move down at either end of the package and tuck the ends of the stamp 200 against the package ends and bring them into close engagement therewith. As is shown in Figs. 2 and 5, the side presser 88 is yieldingly mounted on the presser head 90 in the same way as the presser 91 so as to engage the rear edge of the package label and force it tightly against the package at the same time that the tightener 89 engages and tightens the label at the front edge of the package so that at the time that the presser forces the pasted stamp upon the package and label the label ends have been brought closely together so that they are held in proper position by the stamp which makes it unnecessary to paste the label if a pasted stamp is to be applied thereto. Suitable holders are provided to hold the ends of the stamps tightly against the package until the paste thereon has become properly set and these holders may be in the form of the pivoted arms 93 mounted on the mold wheel so that their operating ends are normally spring pressed inward as is well known in this art. The holder cams 185 mounted on the frame cooperate with the ends 94 of the holders so as to maintain the holders in retracted position, as is indicated in Figs. 10 to 12, until the presser has operated, whereupon the holders are released and engage the stamp ends holding them in position until the mold wheel has carried the package into discharge position.

Stamp feed box.—The stamps, that is the ordinary revenue stamps, in the case of wrapped packages of tobacco, or other distinctive stamps, labels, or binding strips, which may be rendered adhesive, may be kept in a suitable stamp feed box 165 mount-

ed on the bracket 174 in the frame; this box may have the skeleton side 168 so that the stamps are visible down to a point close to the bottom from which they are fed and so that stamps can readily be inserted from time to time into the box. If desired, the stamps may be fed downward by suitable feed blocks such as 169 which can be placed upon the stamps when a new lot are placed in the box and the feeding action may be assisted by mounting the feed stem 172 in a suitable guide 272 on the side 167 of the feed box and providing this stem with a slotted feeding foot 170 which is adapted to engage any one of these feed blocks on either side of a suitable feed lug 171 formed thereon, this lug thus fitting within the slot in the feeding foot 170. A suitable number of feed weights 173 may be applied to the feed stem so that these stamps which are usually small and light can be fed downward with the desired force, even when only a few stamps are in the box. This arrangement also allows the feeding to be continued in a practically uninterrupted manner during the time that a new lot of stamps 200 is being inserted in the box since the new stamps may be placed upon the feed block in the box, together with another feed block 169 above them and thereafter the feeding foot 170 may be disengaged from the lower feed block and brought into cooperation with the upper one, after which the lower feed block may be pulled endwise out of the feed box by its projecting lug 269.

Any desired form of reliable separating and feeding means may be used to deliver the revenue or other stamps from the feed box, a desirable form of feeder being that illustrated in Fig. 10 in which the piercing separators 163 are mounted upon the pivoted arms 162 connected to the two levers 148, 149 so that the springs 164 normally tend to hold these separators 163 against the stamp stack with sufficient force so that they pierce several of the lower stamps. The cams 146, 147 on shaft 206 alternately operate the levers 148, 149 so that either one or the other of these piercing separators is in engagement with the stack when one of the stamps is withdrawn. This alternate operation of the separators allows any fuzz or paper upon the separator and adjacent stamp, after the separator has torn through one of the stamps, to be carried away with the succeeding stamp while that separator is withdrawn from the stack and the separating action effected by the other separator. As indicated, the bottom of the feed box 230 is provided with suitable slots through which project the feed slides 232 which are preferably provided with a facing 231 of rubber or other gripping material. These feeding slides may be operated by the cam 153 on the shaft 154 which engages a suitable fol-

lower on the lever 156 with which the spring 202 is connected so that the slides are oscillated forward, carrying with them a stamp which has been raised by the slides out of engagement with the bottom plate 230, while on the rearward movement of the slides they are lowered out of contact with the stack of stamps which is carried on the plate 230 at this time. This vertical movement of the slides may be effected by mounting them in blocks 158 carried on the rock levers 157 pivoted in the frame bracket and connected by the link 159 which carries at its end the cam roll 155 cooperating with the cam 235 on the shaft 154. These stamp feeding devices may be operated by the bevel gear 143 on the shaft 154 which meshes, as is shown in Fig. 1, with the bevel gear 142 on the shaft 242 which may be driven by the sprocket chain 141 from the drive shaft 115. The gear 151 on this shaft 154 meshes with the gear 150 of double size on the shaft 206 so as to drive this shaft and the separator cams at half the speed of the shaft 154.

Stamp paster and feeder.—The stamp feeding device may comprise the sliding grip 178 shown in Figs. 1, 3 and 10 which may be operated by the link 177 pivoted to the grip lever 176 and mounted on the shaft 182 so as to be operated by its roll 181 cooperating with the closed cam 180 on the shaft 275. This grip carries at its forward end the jaw 122 which may have a ridged or corrugated working face as illustrated in Figs. 11 to 13 and the cooperating gripper 121 may be pivoted about the pin 123 in the grip so as to cooperate with this jaw and normally be pressed into holding engagement therewith by the spring 130. The latch 124 slidably mounted on the grip 178 controls the gripping engagement of this gripper upon the stamp 200. This latch may be provided with the inclined cam face 131 which cooperates with the similarly inclined face 210 on the free end of the pivoted gripper so that when forced in contact therewith when the grip has fed the stamp forward to such an extent that the rear portion 207 of the latch engages the releaser 208 shown in Figs. 10 and 13, the gripper is wedged away from the cooperating jaw 122 releasing the stamp 200 as is shown in Fig. 11. When, however, the grip is moved into receiving position so that it engages the end of the stamp 200 fed forward by the slide face 231 the setter 125 pivoted about the pin 126 in a suitable bracket, engages and forces back this latch 124 so that the gripping spring 130 brings the gripper into active holding engagement with the stamp. The stamp may be pasted on either edge as it is drawn forward by the gripper by any desirable pasting means such for example as the paste pot 135 mounted on the bracket 136 as shown in Fig. 10 and

carrying the supply roll 134 on the shaft 135. The cooperating pasting roll 133 receives paste from this supply roll and as is indicated in Fig. 13 is slotted so as to allow the gripper to pass between its sections and engage the stamp. As the stamp is drawn outward it is held in proper contact with the pasting roll by the pivoted guide 127 which is forced downward with the desired pressure by the light spring 129 so that the stamp 200 has been pasted on either edge throughout its entire length by the time it is brought into the position indicated in Fig. 11 preparatory to being forced upon the package by the presser 91, 92 after which the holders 93 engage it and hold it tightly at either end until the mold wheel has brought it to the ejecting position. The supply and paste rolls may, if desired, be geared together by the gears 196 shown in Fig. 1 and the shaft 335 may be in two sections connected by the coupling 137 and driven by the bevel pinion 139 from the bevel gear 140 on shaft 242.

Having described this invention in connection with an illustrative embodiment thereof comprising a number of illustrative devices, arrangements, forms, proportions and methods of operation, 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 labeling and stamping machines an intermittently rotated mold wheel provided with molds, plungers mounted in said molds, plunger rods secured to said plungers to guide the same, an intermittently operating inserter cooperating with said mold wheel to force an article and label into one of the molds therein and provided with flanges engaging projecting portions of the corresponding mold plunger to positively force the same into the mold ahead of the article, an inclined feed plate down which articles tend to slide backward, an aliner cooperating with said feed plate adjacent said inserter, a supply belt supplying articles to the lower end of said feed plate, feed belts cooperating with said feed plate, relatively moving gripping guides cooperating with said feed belts to intermittently force said belts into gripping engagement with said articles and feed the same along said feed plate a distance greater than the width of an article, a label feed plate, a label box and means for feeding separate labels from said box into cooperation with a paster, a paster cooperating with an edge of said labels, a pusher feeding said labels over said label feed plate into inserting position below the articles cooperating with said inserter, means to fold the free edges of said pasted labels, a presser device comprising presser and tightener members to engage the label

at either side of the package, means to paste a stamp and feed the same between said presser members, a presser and connected tuckers resiliently mounted on said presser device to engage said pasted stamp and force the same upon the lapped edges of said label and to force the ends of said stamp around the ends of the article, and holders mounted on said mold wheel to engage the ends of said stamp and hold them against the article until the mold wheel brings said article into ejecting position.

2. In labeling and stamping machines, an intermittently rotated mold wheel provided with molds, plungers mounted in said molds, an intermittently operated inserter cooperating with said mold wheel to force an article and label into each of the molds therein and provided with means to engage and positively force each mold plunger into its mold ahead of the article, a feed plate down which articles tend to move backward, means to supply articles to the rear end of said feed plate, feeding means cooperating with said feed plate and means to intermittently bring said feeding means into active engagement with said articles to feed the same along said feed plate a distance not less than the width of an article and to release said articles from said feeding means while said inserter is operating, means to paste and feed labels to said mold wheel, means to fold said labels around said articles, a presser device comprising members to engage the label at either side of the package, means to paste a stamp and feed the same between said presser members, means to engage said pasted stamp and force the same upon the article and means to hold said pasted stamp in engagement with said article until its paste is firmly adherent thereto.

3. In labeling and stamping machines, an intermittently rotated mold wheel provided with molds, plungers mounted in said molds, an intermittently operating inserter cooperating with said mold wheel to force a wrapped article into one of the molds therein, means on said inserter engaging the corresponding mold plunger to positively force the same into the mold ahead of the article, an inclined feed plate down which articles tend to slide backward, an aliner cooperating with said inserter against which articles are forced along said feed plate, means to supply articles to the lower end of said feed plate, feed belts cooperating with said feed plate, relatively moving gripping means cooperating with said feed belts to intermittently force said belts into gripping engagement with said articles and feed the same along said feed plate a distance not less than the width of an article, means to paste and feed labels into cooperation with said mold wheel and means to fold

and hold the pasted edge of said labels around said articles.

4. In labeling and stamping machines, an intermittently rotated mold wheel provided with molds, plungers mounted in said molds, an intermittently operating inserter cooperating with said mold wheel to force an article into one of its molds, an inclined feed plate down which articles tend to slide backward, an aliner cooperating with said feed plate adjacent said inserter, means for supplying articles to the lower end of said feed plate, feed belts cooperating with said feed plate and relatively moving gripping guides cooperating with said feed belts to intermittently force said belts into gripping engagement with said articles and tending to feed the same along said feed plate a greater distance than the width of an article.

5. In labeling machines, an intermittently rotated mold wheel provided with molds, an intermittently operating inserter cooperating with said mold wheel to force an article into one of the molds therein, an inclined feed plate down which articles tend to slide, alining means cooperating with said inserter to be engaged by articles fed up said feed plate, means for supplying articles to the lower end of said feed plate, and intermittently gripping feeding means cooperating with said feed plate to grip and simultaneously feed a plurality of articles up said feed plate a distance not less than the width of an article.

6. In labeling machines an intermittently rotated mold wheel provided with molds, inserting means cooperating with said mold wheel to insert articles into the molds therein, a feed plate along which articles tend to move backward, means to supply articles to the rear portion of said feed plate and intermittently gripping feeding means frictionally engaging the articles and feeding them forward along said feed plate toward said inserter a distance not less than the width of an article.

7. In labeling and stamping machines, an intermittently rotated mold wheel provided with molds, an inserter cooperating with said mold wheel to intermittently force an article and label into each of the molds therein, means to feed a label to said mold wheel, means to fold said labels over the articles, a presser device comprising members to engage the label, means to feed a pasted stamp between said presser members and means to engage said pasted stamp and force the same upon the label and over the lapped portions thereof to hold the same in position until said pasted stamp is properly adherent thereto.

8. In labeling and stamping machines, an intermittently rotated mold wheel provided with molds, an inserter to feed articles and

labels into said molds, means to fold said labels around said articles, a presser device to hold said labels in position, means to feed a pasted stamp to each of said articles while its label is held by said presser device and means to force said stamp upon the label and over the lapped portions thereof to hold the same in position.

9. In labeling and stamping machines, an intermittently rotated mold wheel provided with molds, means to force articles and labels into said molds, means to fold said labels over said articles, a presser device to engage and hold said labels in position, means to feed an adhesive stamp to each of said articles while held by said presser device and means to force said stamp upon the label and over the lapped portions thereof to hold the same in position.

10. In labeling and stamping machines, a mold, means to feed a label and article into said mold, means to fold said label over said article, a presser device comprising members to engage the label at either side of the package, means to feed an adhesive stamp between said presser members, a presser and connected tuckers resiliently mounted on said presser device to engage said stamp and force the same upon the wrapped edges of said label and to force the ends of said stamp around the ends of the article.

11. In labeling and stamping machines, a mold, means to feed a label and article to said mold, a presser device comprising presser members to engage the label and hold the same in position, means to feed an adhesive stamp to said article between said presser devices and means to force said stamp upon said article.

12. In labeling machines a mold, means to feed an article and label to said mold, means to fold said label over said article, a presser device to engage said labeled article, means to feed an adhesive stamp or label to said article while engaged by said presser device

and means to press said adhesive label upon said article.

13. In labeling machines, a mold, means to feed an article and label into said mold, a stamp feed box having an open side, a feed stem having a feed foot, feed blocks cooperating with said foot to rest upon the stamps in said feed box and feed them downward, means to successively feed stamps from said feed box, means to render said stamps adhesive, a presser device to engage and hold said labeled article, a grip comprising a jaw, a pivoted gripper and a latch controlling the position of said pivoted gripper to cooperate with said feed box and feed a stamp therefrom to said labeled article while engaged by said presser device and means to apply said stamp to said article.

14. In labeling machines, means to support an article in labeling machines, a feed box having an open side, a feed stem having a feed foot, feed blocks to cooperate with said feed foot and to engage sheets in said feed box and feed the same forward, said feed blocks being removable from said feed box from between the sheets therein and means to feed separate sheets from said feed box to said article.

15. In labeling machines, means to support an article in labeling machines, a feed box having an open side, a feed stem having a feed foot, a plurality of feed blocks provided with lugs to each disengageably cooperate with said feed foot and to engage sheets in said feed box and feed the same forward, said feed blocks being removable from said feed box from between the sheets therein without interrupting the feeding operation and means to feed separate sheets from said feed box to said article.

LOUIS FISCHER.

Witnesses:

HARRY L. DUNCAN,
ALBERT E. THAYER.