

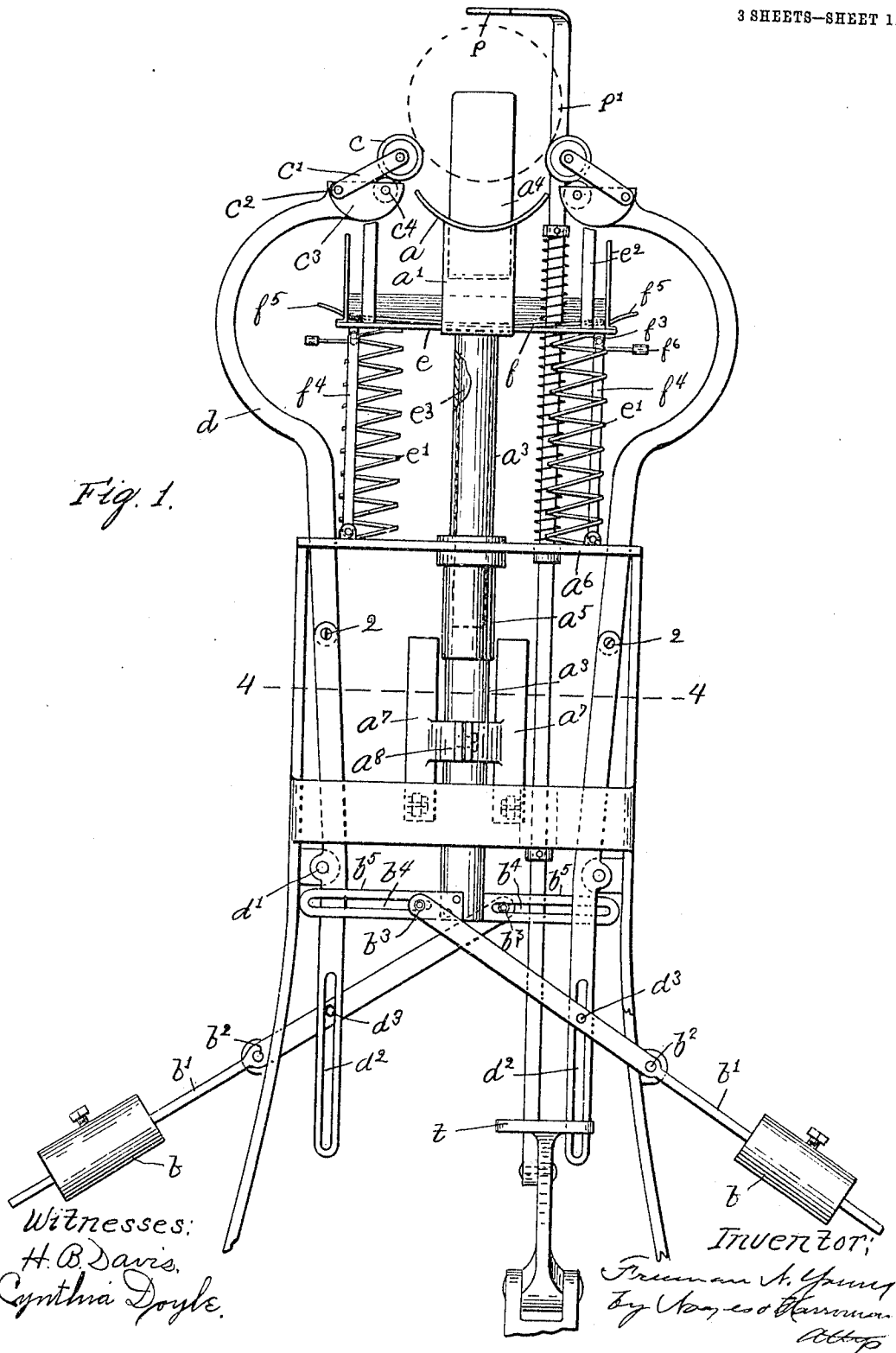
F. N. YOUNG.
BOTTLE LABELING MACHINE.
APPLICATION FILED JULY 8, 1907.

949,367.

Patented Feb. 15, 1910.

3 SHEETS—SHEET 1.

Fig. 1.



Witnesses:
H. B. Davis.
Cynthia Doyle.

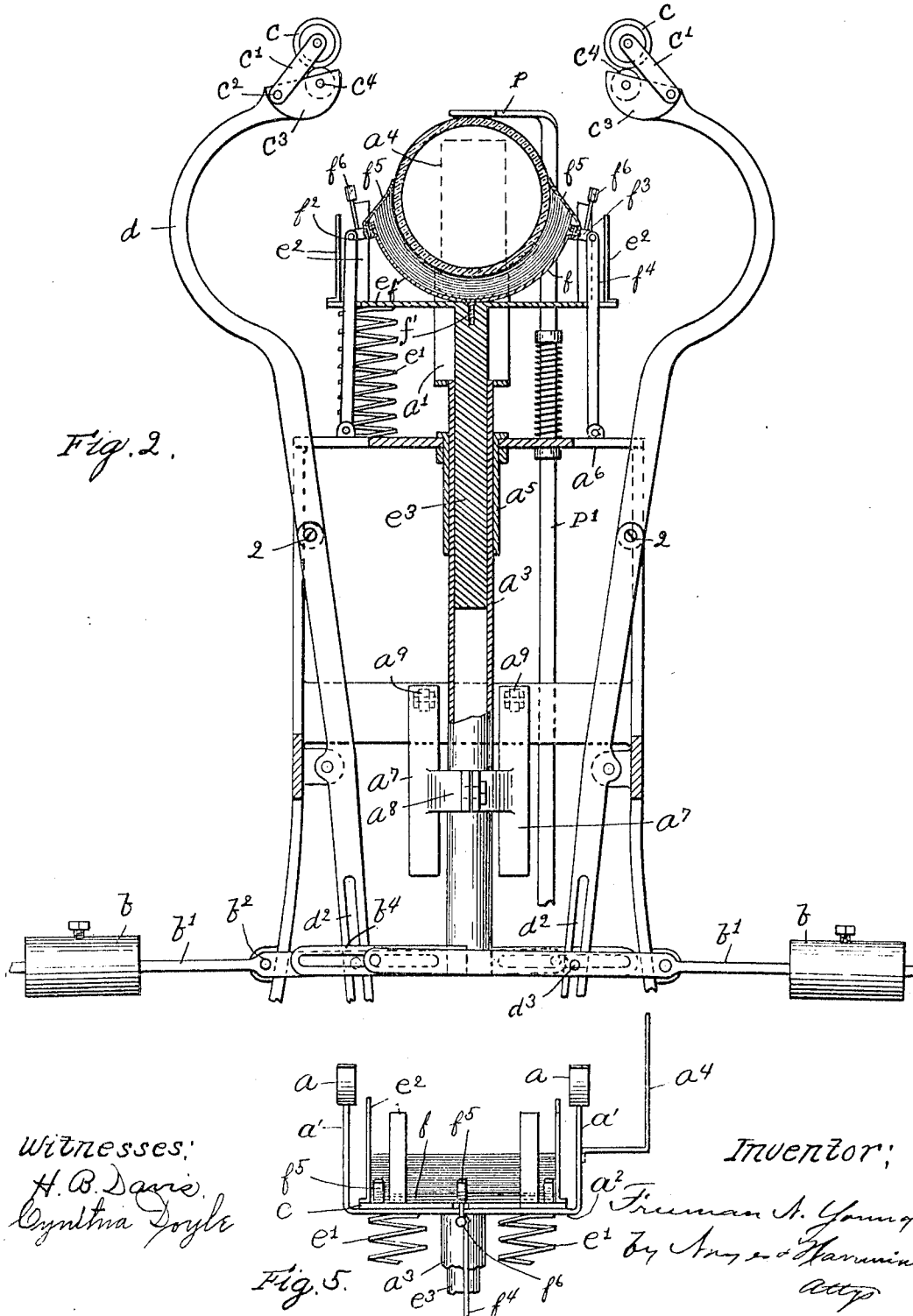
INVENTOR:
F. N. Young
By Wm. S. Young
Attorney

F. N. YOUNG.
BOTTLE LABELING MACHINE.
APPLICATION FILED JULY 8, 1907.

949,367.

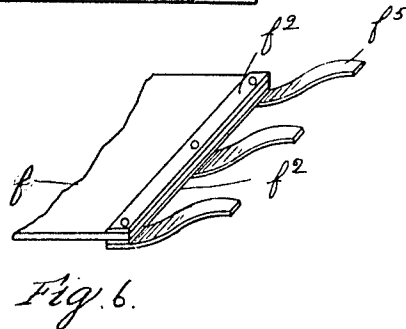
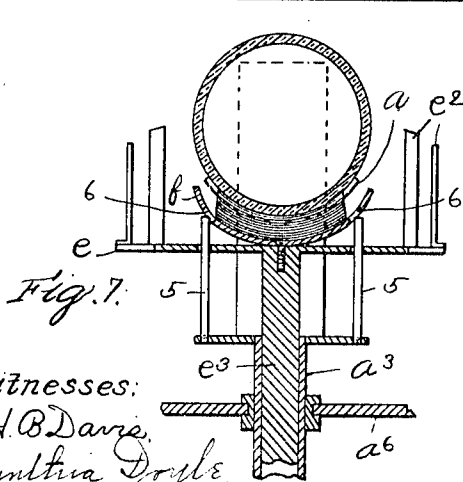
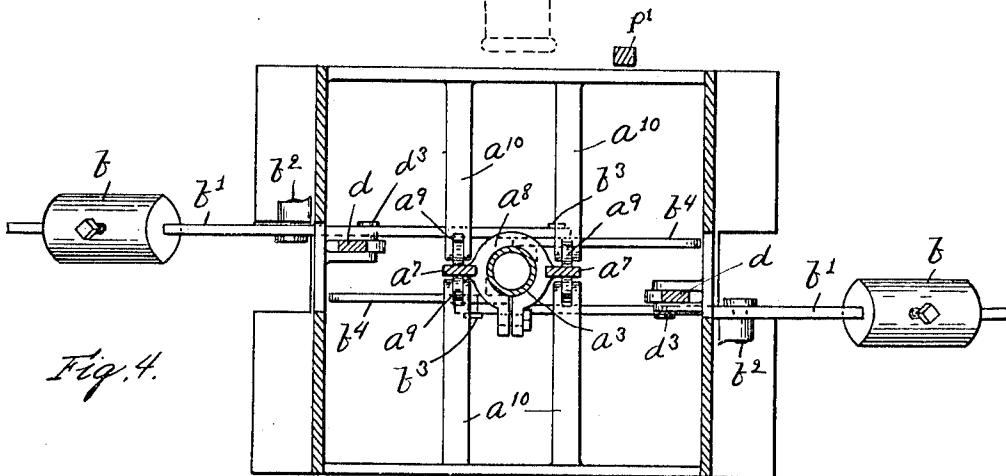
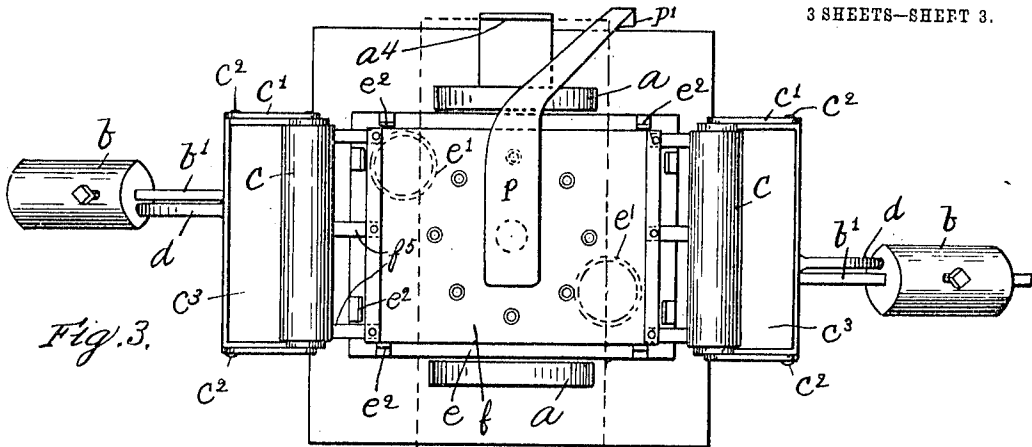
Patented Feb. 15, 1910.

3 SHEETS—SHEET 2.



949,367.

3 SHEETS--SHEET 3.



Witnesses:
H. B. Davis
Cynthia Doyle

Inventor:
Freeman S. Young
by Mary S. & Hermann.
Attys.

UNITED STATES PATENT OFFICE.

FREEMAN N. YOUNG, OF CAMBRIDGE, MASSACHUSETTS.

BOTTLE-LABELING MACHINE.

949,367.

Specification of Letters Patent. Patented Feb. 15, 1910.

Application filed July 8, 1907. Serial No. 382,628.

To all whom it may concern:

Be it known that I, FREEMAN N. YOUNG, of Cambridge, county of Middlesex, State of Massachusetts, have invented an Improvement in Bottle-Labeling Machines, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to bottle-labeling machines, and has for its object to construct a machine whereby adhesive material is applied to the bottle and subsequently the label is applied thereto, and the parts are adapted to be so easily operated that, in case the bottle is heavy, the weight of the downwardly moving bottle may be utilized to operate the parts, although means are or may be provided for moving or for assisting in moving the bottle downwardly.

The invention also has for its object to provide the label-holder with a label-supporting-and-applying device of improved form, which is adapted to support a pile of labels and to be bent, together with the pile of labels thereon, around the bottle, when applying the topmost label of the pile to a bottle upon which the adhesive material has been previously deposited.

The invention also has for its object improved means for operating said improved label-supporting-and-applying device; also to provide gumming-devices so arranged with respect to the bottle-support that adhesive material may be applied to a bottle held by said support previous to the label being applied; also to provide applying-rolls movable toward and from the bottle to apply adhesive material thereto, and means for supplying said rolls with adhesive material, and means for moving them toward and from the bottle; also to provide means for preventing lateral displacement of the labels of the pile while said pile is bent around the bottle; also to provide means for holding the improved label-supporting-and-applying device in fixed relation to the label-holder whereby its position with respect thereto is maintained; also to arrange the gumming-devices in the downward path of movement of the bottle, and to provide means for moving them away from each other to permit the passage between them of the bottle; also to otherwise improve the construction of the machine.

Figure 1 shows in front elevation a bottle-labeling machine embodying this invention, the parts being in their normal positions. Fig. 2 is a similar view taken partly in vertical section, the parts being in the position they will occupy when the downwardly moving bottle has operated to depress the bottle-support and label-holder and label-supporting-and-applying device and also to move outwardly the gumming-devices. Fig. 3 is a plan view of the machine in Fig. 2. Fig. 4 is a transverse section of the machine shown in Fig. 1, taken on the dotted line 4-4. Fig. 5 is a detail showing the bottle-support, label-holder and label-supporting-and-applying-device in side elevation. Fig. 6 is a detail of one end of the label-supporting-and-applying device. Fig. 7 is a sectional detail showing modified means for maintaining the labels of the pile in correct relative position.

The bottle-support is adapted to receive and support a bottle in horizontal position, and, as herein shown, comprises a pair of curved plates a , a , mounted respectively on upright arms a' , a' , rising from a horizontal plate a^2 , which is attached to an upright post a^3 , see Fig. 5. The curved plates a , a , are located a short distance apart, so as to engage the body of the bottle near its opposite ends. When designed to engage the body of a bottle having parallel sides, they will occupy the same plane. An upwardly extended arm a^4 is attached to one of the arms a' , which serves as a rest against which the end or bottom of the bottle is pressed, to thereby properly localize the bottle with respect to the labels. The post a^3 is made tubular and extends through a sleeve a^5 , which extends through and is fixed to a table a^6 . Said post is movable vertically in said sleeve. The lower end of said post is guided by means provided for the purpose, so that its vertical movement will be substantially true. As a guide for the lower end of the post a^3 a pair of vertical plates a^7 , a^7 , are employed, which are located at opposite sides of the post and are formed integral with or fixed to a collar a^8 , which is clamped or otherwise secured to the post, see Fig. 4. Said vertical plates a^7 , a^7 , are respectively located between two pairs of rollers a^9 , a^9 , journaled to the extremities of arms a^{10} , attached to and extending inward from the legs of the table or other frame-work. As

the post moves up and down the vertical plates a^1 , a^2 , correspondingly move between the rollers. The post is thereby guided.

It is designed and intended that the bottle-support shall be depressed by the bottle which is moved downward by means provided for the purpose or by its own weight, or both; and when the bottle is removed from said bottle-support, the latter shall resume its normal elevated position. Hence means are provided for raising the bottle-support when the bottle is removed therefrom, which permits downward movement of said bottle-support.

The means herein shown for raising the bottle-support consists of weights b , two being herein shown, adjustably mounted on levers b' , pivoted at b^2 to the frame, the opposite ends of said levers, having laterally extended pins b^3 , which enter slots b^4 formed in bars b^5 , secured to the post. Two bars b^5 are provided, one for each lever b' , and they are extended in opposite ways from the lower end of the post, and disposed horizontally, and the slots b^4 therein are likewise horizontal. As the post is depressed by the downwardly moving bottle-support the bars b^5 are correspondingly depressed, the pins b^3 caused to travel along in the slots b^4 , the levers b' thereby moved on their pivots b^2 , and the weights raised; and, when the bottle is removed, the weights, falling by gravity, operate to restore the bottle-support to its normal elevated position.

In do not desire to limit my invention to the employment of this particular form of bottle-support, or to the particular means herein shown for raising it to return it to its normal elevated position, it being understood that the particular form of bottle-support herein shown and the particular means herein shown for raising it, are merely shown for the sake of illustrating one practical embodiment of my invention.

In case the bottle is heavy its weight may be sufficient to depress the bottle-support and also to operate the labeling-devices to be described, but in case the bottle is not sufficiently heavy to accomplish these results, means are provided for positively moving downwardly the bottle to thereby depress the bottle-support and operate the labeling-devices. The means herein shown for thus downwardly moving the bottle consists of a plunger, arranged to overlie the bottle and to engage the top of its body portion and means for moving downwardly said plunger. The plunger may be made as a curved plate p , attached to the upper end of a vertical plunger rod p' , which is connected at its lower end to a treadle t , by which it may be operated. Depression of the treadle moves downwardly the plunger, which in turn moves downwardly the bottle. Any other means may be provided for thus mov-

ing downwardly the bottle, so far as my invention is concerned.

The bottle, having been placed in its support, is designed to have glue, paste or other adhesive material applied to it during the first part of its downward movement, said adhesive material being applied in two lines, at opposite sides of the middle of the bottle, so that subsequently the label may be attached to the bottle by pressing it upon or against the bottle, when it will be held thereon by said two lines of adhesive material. Therefore, two gumming-devices are employed, which are arranged to engage the bottle during the first part of its downward movement, and, having performed their functions, to be moved out of the path of movement of the bottle. The gumming-devices each consist of an applying roll c , journaled in a yoke c' , pivoted at c^2 , to the walls of a reservoir c^3 , and a roll c^4 contained in said reservoir and journaled to the walls thereof whereby it is adapted to revolve in the glue which is contained therein. The applying roll c rests by gravity upon said roll c^4 , and thereby receives its supply of glue, and said roll c is adapted to be moved into the downward path of movement of the bottle. The roll c is revolved by frictionally engaging the downwardly moving bottle, and the roll c^4 is revolved by said roll c . The two reservoirs c^3 , c^3 , being located at opposite sides of the downwardly moving bottle, are respectively supported at the upper ends of a pair of upright levers d , d , which are pivoted at d' , d' , to the frame. Movement of said levers d , d , on their pivots causes the rolls c , c , to move into and out of the path of movement of the bottle. The levers d , d , are held in upright positions and moved back and forth on their pivots by means connected with and operated by the post a^3 , in order that their movements may be timed to correspond to the movements of said post, and also in order that they may be operated by the downwardly moving bottle. As herein shown the two levers d , d , are respectively connected with the levers b' , b' , and, for simplicity of construction, a pin and slot connection is employed, as for instance, the lower end of each lever d , is formed with a slot d^2 , which is adapted to receive a pin d^3 , extended laterally from the adjacent lever b' , such connection not only providing for holding the lever d in upright position, but also for moving it back and forth on its pivot as the lever b' is raised and lowered with and by the post a^3 to which it is connected. As the post descends from the position shown in Fig. 1 to the position shown in Fig. 2 the gumming-devices will be moved away from each other, out of the path of movement of the bottle, and, as the post rises, they will be moved toward each other, into the path of movement of the bottle.

The gumming-devices, however, remain in the path of movement of the bottle long enough to be engaged by the bottle during the first part of its downward movement, to
 5 apply thereon two lines of glue for the subsequent application of the label. The levers d are each composed of two parts secured together by a screw 2, or they may be otherwise connected together, whereby the parts
 10 or members thereof may be adjusted relatively to each other. Adjustment of the levers d , d , is required for the purpose of varying the relative positions of the gumming-devices with respect to the bottle.

15 The gumming-devices herein shown comprising revoluble rolls for applying adhesive material to the bottle possess many advantages over brushes and other types of applying-devices, as for instance, they may be
 20 easily supplied with adhesive material, by merely engaging revoluble supply-rolls, and will engage and disengage the bottle without spattering the adhesive material.

I do not desire to limit my invention to
 25 the particular construction of gumming-devices herein shown, or to the particular means herein shown for operating them, as it is obvious that they may be otherwise constructed and may be operated and yet come within
 30 the spirit and scope of my invention, the construction herein shown and the particular means herein shown for operating them being represented particularly for the purpose of illustrating one practical embodiment of
 35 my invention.

The label-holder and the label-supporting-and-applying-device are both located between the supports a' , a' , for the bottle rests, and below the normal level of said rests, and
 40 the label-supporting-and-applying-device is contained in the label-holder, being located at the bottom thereof, so that the pile of labels, which is placed in the label-holder, rests upon said label-supporting-and-applying-device. The label-holder and label-supporting-and-applying-device contained therein are depressible, and adapted to be moved
 45 downwardly by the downwardly moving bottle engaging the pile of labels, and the label-supporting-and-applying-device is also adapted to be operated as the bottle descends to apply the topmost label of the pile to the bottle.

55 The label-holder consists of a flat base plate e , supported in horizontal position upon springs e' , whereby it may be depressed, any suitable number being employed, which are arranged upon the table a'' . The plate e , is herein shown as quadrangular in shape, but it may be of any other desirable shape. The plate e is located between the arms a' , a' , and above the plate a'' , in order that the bottle-support may be depressed independently of the
 60 label-holder. The springs e' , are made

quite long so that the plate e , may have quite an extensive downward movement. Several upright posts e'' are erected on the plate e , at the corners thereof, or thereabout, which serve as guides for the pile of
 70 labels. The plate e is mounted upon a post e'' , which is supported in vertical position by the tubular post a'' , being contained in and adapted to move telescopically or slide freely in said post.

75 The label-supporting-and-applying-device consists of a flexible pad f , made of elastic webbing, or leather, or thin metal, or other suitable material. It is preferably made elastic and of a shape and size to correspond
 80 to the shape and size of the label. It is placed in the label-holder, and rests upon the base plate e , normally lying flat upon said plate. The small pile of labels only will be placed in the label-holder which rests on
 85 this pad. The flexible pad f is attached to the plate e at or along the middle, as shown at f' , Fig. 2, from its front edge to its rear edge, but its ends are not attached to said plate. The opposite ends of the flexible
 90 pad are connected, as herein shown, to non-depressible pad supports, so that as the label-holder, to which said pad is attached along its middle, descends, said ends will remain in elevated position. In this manner
 95 the middle support and the end supports for the pad are movable one with relation to the other, but my invention is not limited to this particular manner of moving said supports one with relation to the other. Each end of
 100 the flexible pad is placed between two stiff strips f'' , of wood or other material, which are secured together and form a clamp for engaging the end of the pad. Each clamp has an ear f''' projecting from it, and two
 105 upright arms f'''' , are provided, to the upper ends of which said ears are respectively pivotally connected. The arms f'''' are erected upon and pivotally connected to the table a'' . The plate e , of the label-holder is cut away
 110 to receive said arms. These arms, being connected to the table, are non-depressible, yet are movable to and fro on their pivotal connections. As the bottle descends, carrying with it the bottle-support, it soon en-
 115 gages the pile of labels, which is lying flat on the flexible pad, and as it continues to descend the bottle exerts a pressure on the pile of labels, and the label-holder yields and the flexible pad which is attached there-
 120 to at its middle, descends with it, leaving the opposite ends of said flexible pad in elevated position. This action causes the flexible pad and pile of labels thereon to bend around the body of the bottle, and the top-
 125 most label of the pile which engages the body of the bottle to adhere thereto by reason of the two lines of glue which have been previously applied, during the first part of its downward movement. The bottle is
 130

then removed from its support, in order that the parts may resume their normal positions. As the pile of labels is bent around the bottle by the pressure of the bottle thereupon it will be observed that they are moved slightly with respect to each other, and such slight movement results in the separation of the labels, which is a very desirable feature, as they usually have a tendency to stick together.

To retain the labels of the pile in proper position with respect to each other while being bent around the body of the bottle, so that when the pile is permitted to flatten they will resume their correct relative positions, a set of fingers f^3 are provided at each end of the flexible pad, so arranged as to engage the opposite sides of the pile of labels, when they are bent around the body of the bottle, and by thus engaging the labels, to hold them. These fingers are rigidly secured to the clamps at the ends of the flexible pad and swing inward in the arc of a circle, as the clamps are caused to turn by the depression of the middle of the pad. Normally, the fingers extend outward, as shown in Fig. 1, but, as the middle of the pad is depressed, they are gradually turned inward, until they finally engage the edges of the pile of labels. To assist in returning the clamps weighted arms f^6 are connected to the ears f^3 , which are arranged to have a normal tendency to fall and to move the fingers outward. Thus it will be seen that the bottle, having been placed on the bottle-support and localized thereon by pressing it against the guide a^4 , moves downwardly by means of the plunger or by its own weight and operates the several parts to apply the label to its body, and as soon as the label is applied thereto, the bottle will be removed, whereupon the parts will immediately resume their normal positions.

Referring to Fig. 7, means are provided for applying a small label, and for holding small labels in correct relative position in a pile.

5, represents upright pins, attached to the bottle-support, which extend up through holes in the plate e and through holes 6 in the flexible pad, and which serve as upright guide pins for the pile of labels. When the pins 5 are employed the upright posts e^2 on the table e are not required.

A small pile of labels only is employed in order that the pile may be easily bent around the body of the bottle, it being understood that a large pile of labels cannot be so easily bent.

A flexible label-supporting-and-applying pad which is elastic possesses some advantages over one which is not elastic, in that it acts to better hold the labels in a pile as the pile is bent around the bottle; furthermore, by making the label-supporting-and-

applying device as a flexible pad and arranging it on top of the base-plate of the label-holder, so as to receive upon it the pile of labels, it acts with substantially the same degree of pressure over the entire surface of the label when applying the label to the bottle.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a bottle-labeling machine, the combination of a label-holder, a flexible label-supporting-and-applying pad arranged on top of the base-plate of said label-holder, adapted to receive upon it a pile of labels, and means for bending said pad and the pile of labels thereon around the bottle when applying the label thereto, substantially as described.

2. In a bottle-labeling machine, the combination of a label-holder, a flexible label-supporting-and-applying pad arranged on top of the base-plate of said label-holder, adapted to receive upon it a pile of labels, means for bending said pad and pile of labels thereon around the bottle when applying the label thereto, and means, movable into engagement with the sides of the bent pile of labels, for holding the labels of the pile against lateral displacement, substantially as described.

3. In a bottle-labeling machine, the combination of a label-holder, a flexible label-supporting-and-applying pad arranged on top of the base-plate of said label-holder, adapted to receive upon it a pile of labels, and supports to which the opposite ends of said pad are attached, said label-holder and supports being movable one with relation to the other to bend the pad and pile of labels thereon around the bottle when applying the label thereto, substantially as described.

4. In a bottle-labeling machine, the combination of a label-holder, a flexible label-supporting-and-applying pad arranged on top of the base-plate of said label-holder, adapted to receive upon it a pile of labels, means for attaching said pad to said base-plate along its middle, and supports to which the opposite ends of said pad are attached, said label-holder and supports being movable one with relation to the other to bend the pad and pile of labels thereon around the bottle when applying the label thereto, substantially as described.

5. In a bottle-labeling machine, the combination of a label-holder, a flexible label-supporting-and-applying pad arranged on top of the base-plate of said label-holder, adapted to receive upon it a pile of labels, means for attaching said pad to said base-plate along its middle, supports to which the opposite ends of said pad are attached, movable toward and from each other, said label-holder and supports being movable one with

relation to the other to bend the pad and pile of labels thereon around the bottle when applying the label thereto, substantially as described.

6. In a bottle-labeling machine, the combination with a bottle-support and a label-holder, movable one with relation to the other, whereby the bottle and pile of labels are brought into engagement, of a flexible pad arranged on top of the base-plate of the label-holder, which is adapted to receive upon it the pile of labels, and supports, independent of the label-holder, to which the opposite ends of said pad are attached, said supports and label-holder being movable one with relation to the other, whereby the pad is bent, together with the pile of labels thereon, around the bottle, to apply the topmost label of the pile thereto, substantially as described.

7. In a bottle-labeling machine, the combination with a bottle-support and a label-holder, movable one with relation to the other, whereby the bottle and pile of labels are brought into engagement, and means for applying adhesive material to the bottle previous to its engaging the pile of labels, of a flexible pad arranged on top of the base-plate of the label-holder which is adapted to receive upon it the pile of labels, and supports, independent of the label-holder, to which the opposite ends of said pad are attached, said supports and label-holder being movable one with relation to the other, whereby the pad is bent, together with the pile of labels thereon, around the bottle, to apply the topmost of the pile thereto, substantially as described.

8. In a bottle-labeling machine, the combination with a depressible bottle-support, and a depressible label-holder arranged beneath it, of a flexible pad arranged on top of the base-plate of said label-holder, which is adapted to receive upon it a pile of labels and which is engaged by the downwardly moving bottle, non-depressible supports, independent of the label-holder, to which the opposite ends of said pad are attached, which hold said ends while the label-holder moves downwardly, thereby bending the pad and the pile of labels thereon around the bottle to apply the topmost label of the pile thereto, substantially as described.

9. In a bottle-labeling machine, the combination with a depressible bottle-support, and a depressible label-holder arranged beneath it, of a flexible pad arranged on top of the base-plate of said label-holder adapted to receive upon it a pile of labels which is engaged by the downwardly moving bottle, non-depressible supports, independent of the label-holder, to which the opposite ends of said pad are attached, which hold said ends while the label-holder moves downwardly, thereby bending the pad and the

pile of labels thereon around the bottle to apply the topmost label of the pile thereto and means for applying adhesive material to the bottle previous to its engaging the pile of labels, substantially as described.

10. In a bottle-labeling machine, the combination of a pair of pad-supports, a flexible label-supporting-and-applying pad attached at its ends to said pad-supports, which is adapted to support a pile of labels and to be depressed between its ends by the downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together with the pile of labels thereon, around the bottle, when applying a label, a pair of gumming-devices located above said pad, normally lying in the downward path of movement of the bottle, and means for moving them away from each other to permit the passage between them of the bottle and for subsequently returning them to their normal positions, substantially as described.

11. In a bottle-labeling machine, the combination of a pair of pad-supports, a flexible label-supporting-and-applying pad attached at its ends to said pad-supports, which is adapted to support a pile of labels and to be depressed between its ends by the downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together with the pile of labels thereon, around the bottle when applying a label, a pair of gumming-devices located above said pad, normally lying in the downward path of movement of the bottle, and means, operated by the downwardly moving bottle, for moving them away from each other to permit the passage between them of the bottle and for subsequently returning them to their normal positions, substantially as described.

12. In a bottle-labeling machine, the combination of a pair of pad-supports, a flexible label-supporting-and-applying pad attached at its ends to said pad-supports, which is adapted to support a pile of labels and to be depressed between its ends and thereby bent, together with the pile of labels thereon, around the bottle, when applying a label thereto, and means, movable into engagement with the opposite sides of the bent pile of labels, to hold the labels of the pile against lateral displacement, substantially as described.

13. In a bottle-labeling machine, the combination of a bottle-support, a pair of gumming-devices normally lying in the downward path of movement of the bottle, means for moving them away from each other to permit the passage between them of the bottle and for subsequently returning them to their normal positions, and means for applying a label to the pasted bottle, substantially as described.

14. In a bottle-labeling machine, a bottle-

support, a pair of revoluble rolls for applying two lines of adhesive material to a bottle held by said support, pivoted supports therefor, revoluble supply rolls upon which
 5 said applying-rolls rest by gravity, reservoirs containing said supply-rolls, pivoted supporting-arms bearing said reservoirs and applying-rolls, and means for moving said arms toward and from each other, substantially as described.

10 15. In a bottle-labeling machine, a bottle-support, a pair of revoluble rolls for applying two lines of adhesive material to a bottle held by said support, revoluble supply-rolls
 15 engaged by said applying-rolls, reservoirs containing said supply-rolls, supports bearing said reservoirs and applying-rolls, and means for moving said supports toward and from each other, substantially as described.

20 16. In a bottle-labeling machine, a bottle-support, a pair of revoluble rolls for applying adhesive material to a bottle held by said support movable in circular arcs toward and from the bottle, means for supplying
 25 said applying-rolls with adhesive material, and means for moving them toward and from the bottle, substantially as described.

30 17. In a bottle-labeling machine, the combination of a pair of pad-supports, a flexible label-supporting-and-applying pad attached at its ends to said pad-supports, which is adapted to support a pile of labels and to be depressed between its ends by the
 35 downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together with the pile of labels thereon, around the bottle, when applying a label thereto, a depressible bottle-support located above said pad, adapted to be depressed to
 40 move the bottle into engagement with the pile of labels, and a pair of gumming-devices located at opposite sides of said bottle-support for applying adhesive material to the bottle during its downward movement,
 45 substantially as described.

50 18. In a bottle-labeling machine, the combination with a pair of pad-supports, a flexible label-supporting-and-applying-pad attached at its ends to said pad-supports, which is adapted to support a pile of labels and to be depressed between its ends by the
 55 downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together with the pile of labels thereon, around the bottle, when applying a label thereto, a depressible bottle-support located above said pad, adapted to be depressed to
 60 move the bottle into engagement with the pile of labels, a pair of gumming-devices located at opposite sides of said bottle-support for applying adhesive material to the bottle during its downward movement, and
 65 means connecting said gumming-devices with said bottle-support, whereby they are

moved toward and from each other by said support as the latter rises and falls, substantially as described.

19. In a bottle-labeling machine, the combination of a depressible bottle-support, 70 means for raising it when depressed, a pair of gumming-devices for engaging the bottle, held by said support, a depressible label-holder arranged beneath said bottle-support, a flexible pad arranged on top of the base- 75 plate of said label-holder which is adapted to receive upon it a pile of labels, non-depressible supports, independent of the label-holder, to which the opposite ends of said pad are attached, which hold said ends 80 while the label-holder is moved downwardly by the downwardly moving bottle, thereby bending the pad and pile of labels thereon around the pasted bottle to apply the top-most label of the pile thereto, substantially 85 as described.

20. In a bottle-labeling machine, the combination of a pair of pad-supports, a yielding label-holder, a flexible label-supporting- 90 and-applying pad contained in said label-holder, which is attached at its ends to said pad-supports and which is adapted to be depressed between its ends by the downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together with the 95 pile of labels thereon, around the bottle, when applying a label thereto, a depressible bottle-support located above said label-holder, which is adapted to be depressed to move the bottle into engagement with the 100 pile of labels and means for applying adhesive material to the bottle during its downward movement and previous to its engaging the pile of labels, substantially as described. 105

21. In a bottle-labeling machine, the combination of a pair of pad-supports, a yielding label-holder, a flexible label-supporting- 110 and-applying pad contained in said label-holder, which is attached at its ends to said pad-supports and which is adapted to be depressed between its ends by the downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together 115 with the pile of labels thereon, around the bottle, when applying a label thereto, a depressible bottle-support located above said label-holder which is adapted to be depressed to move the bottle into engagement with the pile of labels, a pair of gumming- 120 devices located at opposite sides of said bottle-support, which normally enter the downward path of movement of the bottle, and means for moving them toward and from each other, substantially as described. 125

22. In a bottle-labeling machine, the combination of a pair of pad-supports, a yielding label-holder, a flexible label-supporting- 130 and-applying pad contained in said label-holder, which is attached at its ends to said

pad-supports and which is adapted to be depressed between its ends by the downwardly moving bottle engaging the pile of labels thereon, to thereby bend it, together
5 with the pile of labels thereon, around the bottle, when applying a label thereto, a depressible bottle-support located above said label-holder, which is adapted to be depressed to move the bottle into engagement
10 with the labels, a pair of gumming-devices located at opposite sides of said bottle-support, which normally enter the downward path of movement of the bottle, and means connecting said gumming-devices with the
15 bottle-support, whereby they are moved toward and from each other by said bottle-support as the latter rises and falls, substantially as described.

23. In a bottle-labeling machine, the combination of a pair of pad-supports, pad- 20 engaging clamps pivotally connected thereto having label-engaging fingers for engaging the opposite sides of the pile of labels, a flexible label-supporting-and-applying pad engaged at its ends by said clamps, which is 25 adapted to support a pile of labels and to be bent, together with the pile of labels thereon, around the bottle, when applying a label thereto, substantially as described.

In testimony whereof, I have signed my 30 name to this specification, in the presence of two subscribing witnesses.

FREEMAN N. YOUNG.

Witnesses:

B. J. NOYES,
H. B. DAVIS.