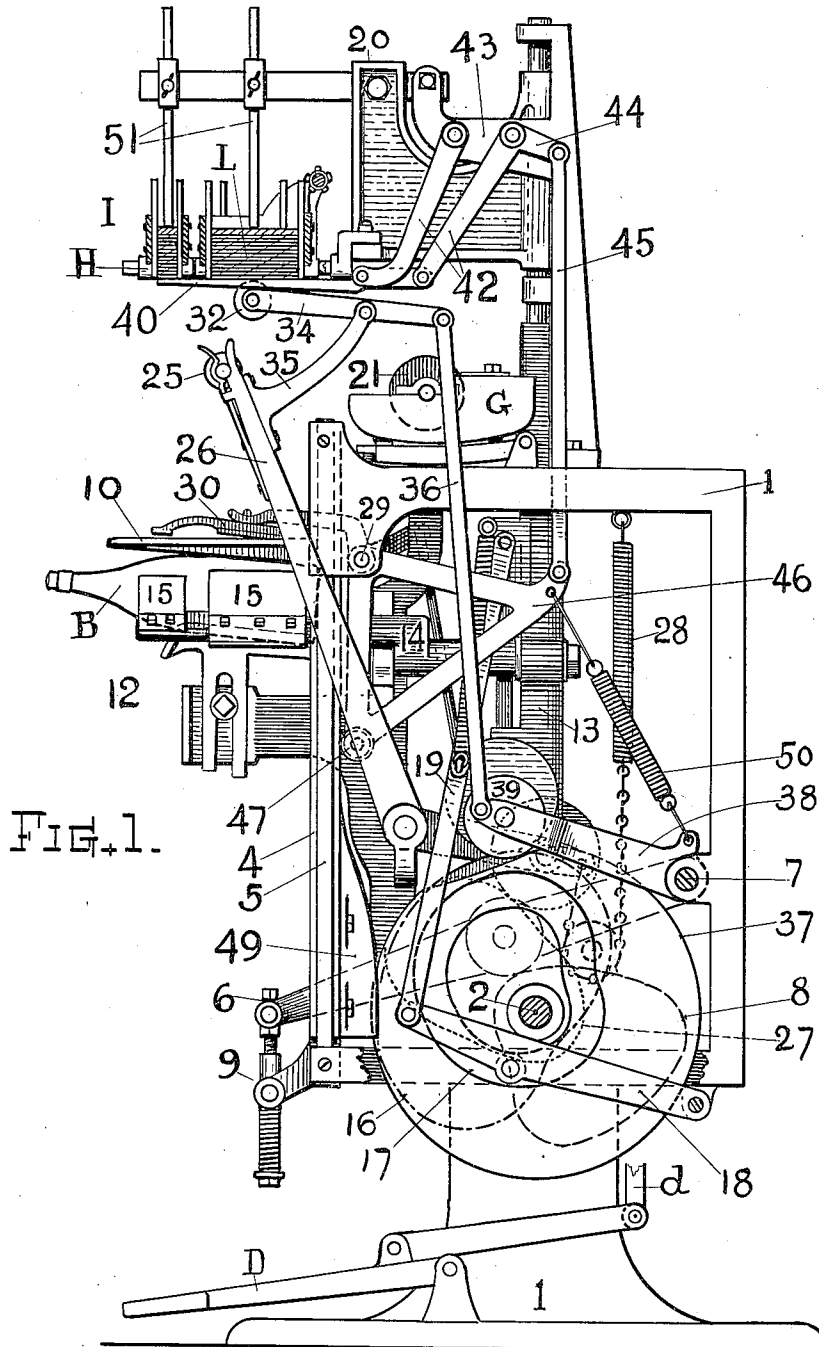


F. O. WOODLAND.
 LABELING MACHINE.
 APPLICATION FILED FEB. 5, 1909.

1,023,911.

Patented Apr. 23, 1912.

4 SHEETS—SHEET 1.



Witnesses.

Ella P. Blum
 R. E. Lippincott

Inventor.

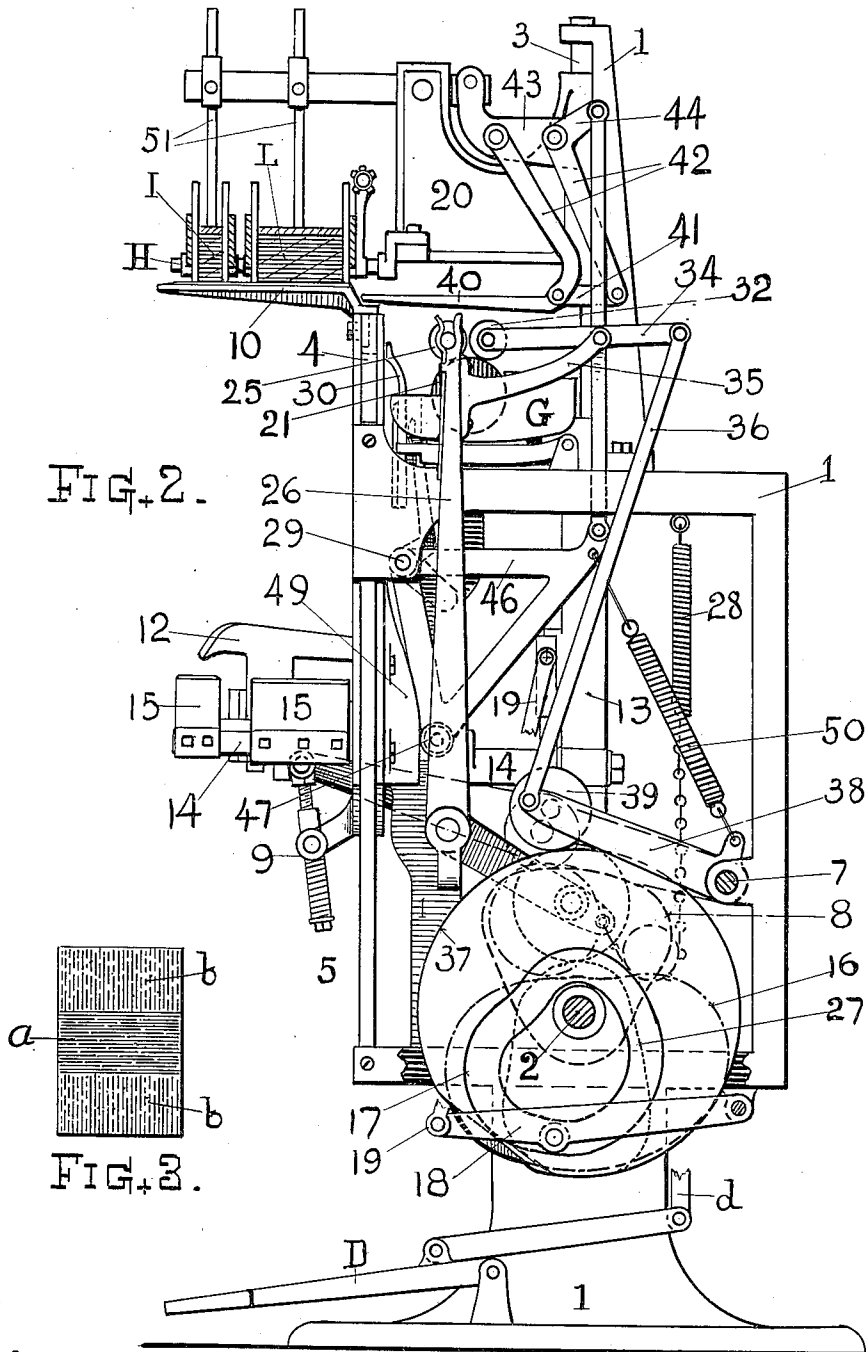
Frank O. Woodland
 By Chas. H. Burleigh
 Attorney

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4 SHEETS—SHEET 2.



Witnesses.

Ella P. Blumel.

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Inventor.

Frank O. Woodland

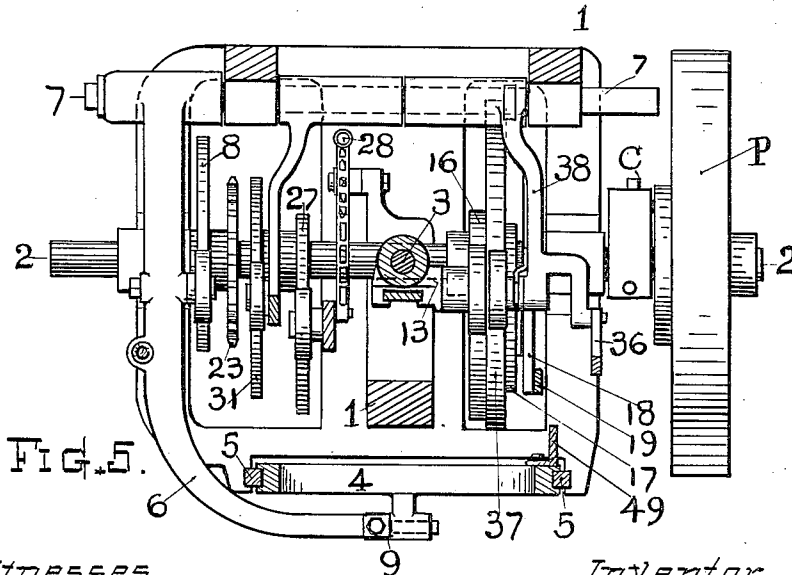
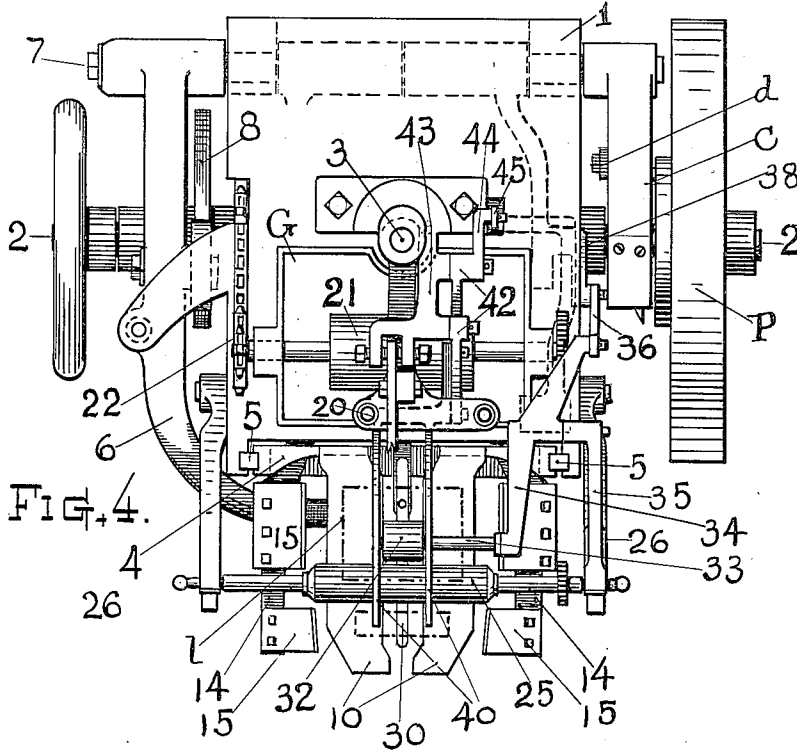
By Chas. H. Burleigh,
 Attorney

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4 SHEETS—SHEET 3.



Witnesses.

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1,023,911.

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4 SHEETS—SHEET 4.

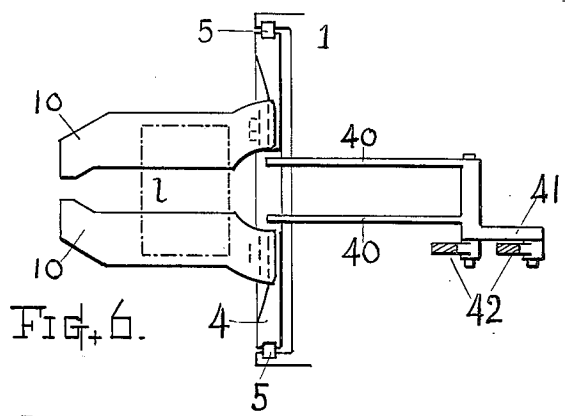


FIG. 6.

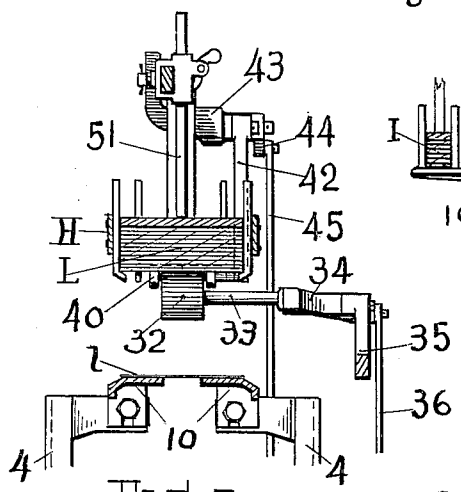


FIG. 7.

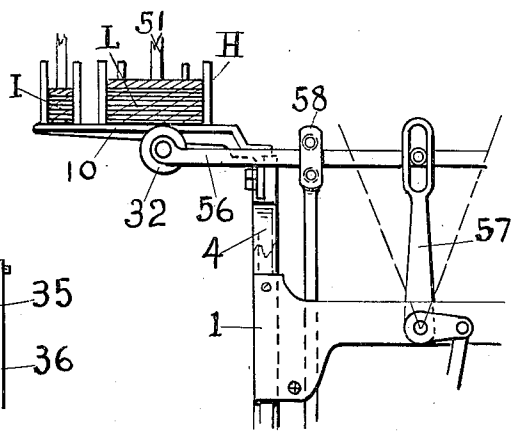


FIG. 10.

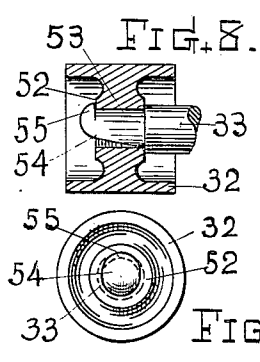


FIG. 8.

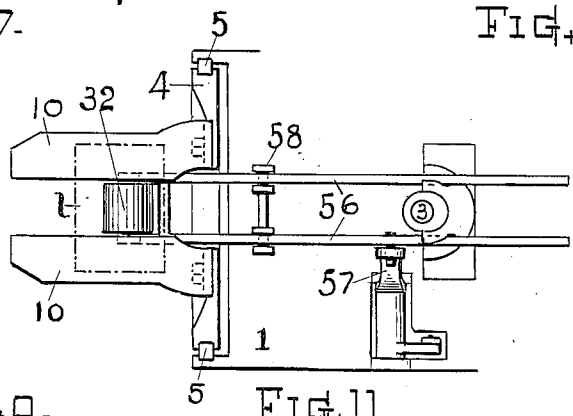


FIG. 11.

WITNESSES.

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UNITED STATES PATENT OFFICE.

FRANK O. WOODLAND, OF WORCESTER, MASSACHUSETTS.

LABELING-MACHINE.

1,023,911.

Specification of Letters Patent.

Patented Apr. 23, 1912.

Application filed February 5, 1909. Serial No. 476,199.

To all whom it may concern:

Be it known that I, FRANK O. WOODLAND, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Labeling-Machines, of which the following is a specification, reference being made therein to the accompanying drawings.

10 This invention relates to improvements in that class of labeling machines wherein the labels are taken singly, by means of reciprocating glue-applying pickers, from a pack, or packs of labels supported upon a label-holder provided with means that engage the edges of the labels and support the pack, while the pickers imprint a surfacing of glue upon the bottom label at or near its ends and adhesively withdraw said label from the pack; delivering the same near the bottle or article to which it is to be applied preparatory to its being smoothed down upon the article by suitable wiper mechanism, as heretofore practised.

25 The object of the present invention is to provide means for distributing gum, glue or adhesive substance upon that portion of the label intermediate to the portions with which the pickers contact; so that the entire surface can be glue-coated without interfering with the action of the pickers and gripping devices; also to provide means for temporarily retaining the under label to prevent displacement or wrinkling thereof while the gum or glue is being applied to the intermedial portion of the label, previous to the contact of the pickers with the label.

40 This invention includes the combination, in a labeling machine of the class named, of means for supporting the pack of labels; means for gripping or retaining the outside label in position beneath or against the pack; and means for applying gum or glue to the central or intermedial portion of the label; also an actuating mechanism for bringing such under-gripping and center-gluing means into operation, and retracting the same, alternately with the action of the picker devices which take the labels from the pack.

In carrying out this invention in practice there is employed a supplemental glue transferring means, or roller, that is arranged to move into contact with the delivering-roll of the glue-supply reservoir, or other source from which gum or glue is taken, and to then traverse across the exposed face of the pack of labels which are supported in suitable manner upon the label holder, which is preferably an overhead bottom-delivery label-holder.

The practical adaptation of this invention to a labeling machine, in one form of its embodiment, is illustrated in the drawings, wherein—

Figure 1 represents a side view of a labeling machine including the invention, some portions of the machine being shown in section. Fig. 2 is a similar view, showing parts of the mechanism at other positions of their action. Fig. 3 represents the arrangement of the glue or gum coating as applied to the label by the means described. Fig. 4 represents a top plan view of the mechanism. Fig. 5 represents a sectional plan view of the cam-shaft and portions of the mechanism adjacent thereto. Fig. 6 is a separate plan view of the pickers and label-retaining fingers, the latter shown at retracted position. Fig. 7 represents a sectional front view of the pickers, the label-holder, center gluing means and adjacent devices. Fig. 8 is a section of the glue-applying roll showing a preferred manner of removably combining it with its axis-stud. Fig. 9 is an end view of the same. Fig. 10 shows a modification, wherein the pickers serve as a means for temporarily retaining the under label while the center-gluing means performs its action; and Fig. 11 is a top plan view of the same modification.

The labeling machine in which my invention is in the present instance embodied, comprises, in its general structure, a main frame 1 of suitable construction for supporting the operating mechanism; an operating cam-shaft 2, mounted to turn in bearings on said frame, and provided with a series of cams; a drive pulley P, and an automatic clutch mechanism C for connecting and releasing the pulley to start and

stop the shaft as required. The clutch is controlled by a treadle D and connection d in well known manner.

A picker-carrier 4, movable on guides 5, is arranged to have reciprocating action toward and from the label-holder; said picker-carrier being operated by a lever 6 fulcrumed at 7 and actuated by a cam 8 on the shaft 2. The end of the lever is best connected with the picker-carrier by a yieldable connecting means at 9. The glue-applying pickers 10, of any suitable shape, are secured to the picker-carrier and arranged so that their faces move into contact with the pack, or packs, of labels L and I for taking labels singly therefrom by adhesion of the glue-coated surfaces thereto. A rest 12, for supporting the bottle or article to be labeled, is attached to a projecting portion of the frame. A wiper-carrier 13 is arranged to move up and down upon a guide 3, and is provided with laterally swinging arms 14 having the wipers 15 mounted thereon in suitable manner for wiping the respective ends of the labels down upon the bottle or article to be labeled. Said wiper-carrier is actuated by a cam 16 upon the shaft 2, and means is provided for imparting the required lateral movement to the wiper-arms and wipers, said means being in the present instance actuated by the cam 17, lever 18 and connecting rod 19.

H indicates the box or holder for containing the supply of labels. It preferably consists of an overhead bottom-delivery label-holder provided with guide stakes having under projecting points or means for supporting the pack, or packs, of labels ready for delivering to the pickers. Said label-holder may be arranged substantially as heretofore employed. It is supported by a forwardly projecting carrier or bracket 20 in connection with the top portion of the frame.

G indicates the glue-box or reservoir for containing the supply of glue. The term glue, as used in this specification, is intended to include glue, gum, paste, or any other semi-liquid adhesive substance employed for sticking the labels. A glue-delivering roll 21 is rotatably mounted within said glue-box; and a gage or scraper is combined therewith for regulating the quantity of glue delivered. Said delivering roller can be rotated by a chain and sprocket-wheel 22 from a sprocket-wheel 23 on shaft 2, or by any approved means.

The label-holder H, pickers 10 and picker-carrier mechanism 4; the wipers 15 and wiper-carrier mechanism 13; the glue-box G, delivering-roller 21 and the operating shaft and cams, shown herein for illustration, are arranged substantially the same as described in my previous application upon

which Letters Patent Number 998,664, were granted to me July 25, 1911, wherein the nature and operation of said parts are more fully explained in detail.

The glue-transferring roller 25, which alternately contacts with the delivering roll 21 and with the faces of the pickers 10 for depositing the required film of glue or adhesive substance thereon, is carried by swinging arms 26 that are fulcrumed upon the frame and actuated by a cam 27 and retracting spring 28, or any suitable means can be employed for moving the roller 25 back and forth across the picker faces.

The swinging grip-device 30, for centrally clamping the presented labels against the surface of the bottle B, preparatory to its being wiped on, is mounted on an axis 29 in rear of the pickers and is actuated by suitable connection from a cam 31 on shaft 2, to operate as heretofore employed.

An important feature of my present invention is the intermedial or center-gluing means; comprising, preferably, a roller 32, of a dimension that will approximately correspond with the space between the pickers 10, and is arranged to travel or have movement across the exposed face of the pack, or packs, of labels. When moving in one direction this transferring or center-gluing roller rolls in contact with the under label; and when moving in the other direction it is caused to descend sufficiently to avoid contact with the label; such action being imparted thereto by a controlling means included in its actuating mechanism. This center-gluing roller is best mounted upon a supplemental carrier operated in connection with the roller 25 that charges glue or gum onto the faces of the picker; the latter roller being usually mounted upon backwardly and forwardly swinging arms 26 operated by a cam and suitable connections. While the two rollers 25 and 32 move forward and backward in unison, a separate actuator or cam is provided for giving such modified movement to the center-gluing roller 32 as may be required to enable it to travel in the desired path. If in any instance preferred, independent actuating means may be employed for working the center-gluing means. In the present instance the roller 32 is mounted upon a stud or axis 33 carried upon a tilting lever 34 that is fulcrumed upon a rearwardly projecting member 35 attached to one of the swinging arms 26 upon which the roller 25 is mounted. The rear end of the lever 34 is connected, by a rod 36, with means actuated by a cam 37 upon the operating shaft. Said means, in the present instance, consists of a swinging arm 38 fulcrumed at 7 and provided with a roll-stud 39 which runs against the face of the cam; said cam being of suitable shape to control the movement of the

center-gluing roller 32, so that it will travel in the path desired as its carrier moves forward and back.

The glue or adhesive substance, is applied to the back of the label, substantially in the form shown in Fig. 3; the intermedial or central portion *a* being coated by the contact therewith of roller 32, and the end portions *b* by contact of the pickers; thus attaining a practicable method of gluing the entire surface of the label in a mechanism in which a pair of reciprocating pickers are employed for adhesively taking and presenting the labels for affixment.

In combination with the glue-transferring rollers, pickers, and label-holder, there is provided a pair of fingers or levers 40 having a reciprocative action, and adapted to move under the pack of labels, somewhat in advance of the transferring roller, and to press upward against the bottom of the pack, gripping the under label against the pack, and there remaining while the center-gluing roller 32 passes across the under label between said fingers, and spreads a film of glue upon the central portion of the label. Said fingers and roller are then retracted out of the way to permit the approach of the pickers, without interference, for completing the glue coating upon the label, and taking the label from the pack.

The means for operating the retaining fingers can be supported in a manner to move said fingers forward to a position beneath the pack, and then upward against the under label, either by a compound movement, or by traveling in the arc of a circle; and the actuating mechanism therefor is best arranged to operate in conjunction with the picker-carrier 4 which moves up and down on the guides 5; or by other approved means.

The label-retaining fingers 40, in the present instance, are united at their rear ends, and provided with a rearward extension 41 that is pivotally connected to a pair of swinging arms 42; the opposite ends of said arms being pivoted to a suitable support or bracket 43 fixed on the frame. One of said arms is furnished with an ear or projecting member 44 that is connected by a rod 45 with one arm of an angle lever 46; the other arm of which is provided with a roll-stud 47 that contacts with an incline or cam member 49 attached to the picker-carrier 4. Said cam member serves for retracting the fingers 40 out of the path of the pickers (see Figs. 2 and 6) when the picker-carrier is elevated for bringing the glue-charged pickers to the delivery mouth of the label-holder, and against the pack, or packs, of labels.

When the cam member 49 moves downward away from the roller-stud 47, the fin-

gers 40 are projected forward and pressed upward against the under label of the pack by the gravity of the actuating parts, or by the aid of a suitably arranged spring 50; thereby securely retaining the under label temporarily in position and preventing any wrinkling or sidewise displacement thereof while the center-gluing means or roller 32 travels across the label.

The label-retaining fingers are shown in Fig. 1 as at forward position and in contact with the label packs, and the center-gluing roller being shown as at an intermediate position in its action; while in Figs. 2 and 6 the fingers are shown at their retracted position, and the transferring rollers 25 and 32 at their rearmost position in contact with the glue-delivering roll.

A suitable follower means 51 is combined with the label-holder for affording resistance for the pack in opposition to the pressure of the pickers, and for automatically following the feed of the pack as it decreases.

In some instances it is desirable to use center-gluing means of various dimensions, to accommodate different sizes of labels; therefore, to facilitate the interchange of the center-gluing rollers, said rollers are preferably constructed and mounted as shown in Figs. 8 and 9. In this instance the roller 32 is formed with a comparatively short inner tube 52; the size of the hub being the same for all of the various sizes of rollers. The top of the axis stud 33 is provided with a reduced bearing surface 53, approximately the same length as the hub, and the underside of the stud is cut away or tapered and rounded at the end, as at 54, up to the point where the bearing surface terminates with a narrow lip 55. This construction permits of the center-gluing roller being readily lifted off and replaced at will; but it is normally retained in operative relation without other fastening than the lip and shoulder at the ends of the bearing surface. Rollers 32, in a variety of sizes, can thus be interchangeably used on the axis-stud 33, and interchange or removal and replacing of the rollers upon the stud can be instantly effected when desired.

In the operation; when the pickers move away from the label-holder H the cam-member 49 permits the angle-lever 46, by its gravity or by aid of the spring 50, to draw down the projection 44, causing the arms 42 to project the fingers 40 beneath the pack and swing them against the under label. Then by the forward swing of the arms 26 the roller 32 is caused to pass across the exposed portion of the label between the fingers, applying adhesive to the central portion while the fingers retain the label securely in position. Then as the pickers approach the

label-holder the arms 26 swing backward, passing the transfer roller 25 along the picker faces, for supplying glue or adhesive thereto, and carrying the rollers 25 and 32 rearward into contact with the glue-delivering roll 21. The pickers then move into contact with the label for applying the glue or adhesive to the end portions *b* of the label; and as the pickers recede, take said label from the pack for presentation of the same adjacent to the bottle in the usual manner. The relative position of the label in respect to the position of the fingers and gluing roll is indicated at 1 on Figs. 6, 7 and 11.

As illustrated in Fig. 2, the center-gluing roll 32 is shown at its idle position, with its face in contact with the glue-delivery roller 21 for taking a supply of glue therefrom; but if preferred in any instance said roller 32 may contact with the transferring roller 25 for receiving its charge of glue therefrom, instead of from the delivering-roll direct; since a slight increase in the length of its supporting means would render said rollers 32 and 25 contactible with each other.

In some instances the center-gluing means or roller can be employed in combination with glue-applying pickers without using the label-retaining fingers; said center-gluing means being arranged to travel across the under label while the pickers are in contact therewith and applying glue to the end portions, the labels being then retained by the pickers while the center-gluing means performs its action upon the label. An example of such modification is illustrated in Figs. 10 and 11, wherein 56 indicates the reciprocating roll-carrier means, 57 an actuator for imparting movement thereto, and 58 means for elevating and depressing the roll-carrier. The parts 56 and 57 may be operated by any approved means from the cam-shaft or other moving parts of the machine. This latter form of embodiment is in its resultant effect quite similar to that first above described, although giving a dwell in the movement of the pickers; it is applicable in some labeling machines, I desire, therefore, to include such construction as within the scope of my claims.

I am aware that in practising my invention, changes may be made in the form of embodiment, by those skilled in the art, without departing from the nature and scope of the invention as expressed in the claims. I do not wish, therefore, to be limited to the special constructions in detail herein shown and described; but

What I claim and desire to secure by Letters Patent is—

1. In a bottle-labeling machine, the combination of means for supporting a pack of labels with the bottom face of the pack ex-

posed for feeding labels downward therefrom, means for gripping the exposed bottom label to the body of the pack, and means for applying adhesive substance to a portion of said exposed label while held by said gripping means.

2. In a bottle-labeling machine, the combination, of a top-charged open-bottomed label-holder having means for supporting a pack of labels, means for supporting said label-holder in an overhanging position, a pair of vertically reciprocating glue-applying pickers that contact with the respective end portions of the exposed label for gluing and taking said label from the pack, and a supplementary glue-applying means that moves underneath the label-holder across the face of the pack and distributes glue upon the central portion of the bottom of the pack.

3. In a labeling machine, the combination, of a top-charged bottom-delivering label-holder having means for supporting a supply of labels thereon, glue-applying pickers movable to and from said label-holder, and adapted for printing a film of glue upon portions of the under label and adhesively extracting labels, one at a time, from the label-holder, a glue-applying means that acts for spreading glue upon that part of the label not included by the pickers, and means for temporarily retaining the label from displacement by said glue-applying means.

4. In a labeling machine, in combination with means for affixing labels to bottles or the like, and a stationary bottom-delivering label-holder having stakes adapted for supporting a pack of labels at the edges, and for the delivery of the under label at a determined position; of a roller for gluing the under label on the pack, and a backwardly and forwardly moving carrier mechanism for advancing and retracting said gluing roller into and from alinement with the pack of labels, and means for varying the height at which said roller travels during its forward and backward movement.

5. In a labeling machine, the combination with the projecting work-supporting rest, vertically moving picker-carrier and pickers, centering clamp and laterally swinging downwardly acting wipers for affixing labels to bottles or the like, and a top-charged bottom-delivering label-holder comprising means for supporting a plurality of packs of labels thereon, a label-gluing roller mounted upon a carrier that travels beneath said label-holder into and out of alinement with the labels and applies a coating of glue to the under label, in each of the several packs, while in the label-holder, mechanism for moving said carrier and said label-gluing roller backward and forward into and from alinement with the

several packs upon the label-holder, and means for raising and lowering said roller into and from contact with the labels.

6. In a labeling machine, the combination, of a bottom-delivery label-holder, reciprocating glue-applying pickers that apply glue to the end portions of the under label upon said label-holder, a supplementary glue-applying means for primarily glue-coating the central portion of said label, a retractable gripping-device that temporarily retains the label while said supplementary glue-applying means is acting thereon, and means for then releasing and retracting said gripping device out of the path of the pickers while said pickers act to withdraw said label from the label-holder.

7. In a labeling machine, the combination, with a bottom-delivering label-holder having means for supporting a pack of labels; and a means for applying adhesive substance to the under label in said pack; of means for gripping the under label against the pack, and mechanism for advancing and retracting said gripping means into and from alinement with the pack of labels.

8. In a labeling machine, a label-gluing means including a pair of glue-applying pickers that move approximately perpendicular to the plane of the labels, and a glue-applying roller that travels along the plane of the label, approximately transverse to the direction of the picker movement.

9. In a labeling machine, the combination, of a bottom-delivering label-holder having guides for supporting a pack of labels thereon, a follower that resists upward movements of the pack; a gripping-means that moves to and from the bottom of the pack and exerts upward pressure against the under label, and a glue-applying device that moves across the under side of the label-holder, and means for elevating and depressing said glue-applying device to pass in contact with the label, and re-pass out of contact with the label, or vice versa.

10. In a labeling machine, the combination with a work-supporting rest, means for affixing a label to a bottle or the like, means for supporting a pack of labels with the bottom label exposed for delivery, and glue-applying pickers for adhesively extracting labels singly from the bottom of the pack; of an independently acting glue-applying means comprising a glue distributing device or roll that traverses across an intermediate portion of the exposed label and deposits glue thereon while said label is in the pack, a backwardly and forwardly swinging carrier, a yieldable supporter mounted on said carrier and having said glue-distributing device or roll supported

thereon, means for actuating the swinging carrier, and supplementary means for controlling the action of said supporter to regulate the approach, traverse movement and retreat of said glue-distributing device in relation to the plane of the label.

11. In a labeling machine, the combination, with means for affixing a label to a bottle or the like, means for supporting a pack of labels, with its outer label exposed for delivery, and means for adhesively extracting a label singly from the pack; of an independently acting glue-applying means that passes across an intermediate portion of the exposed label and deposits glue thereon, while said label is assembled with the pack, and means for temporarily preserving the plane of the exposed label while said glue-applying means passes in contact therewith.

12. The combination, with a label-holder having means for supporting a pack of labels thereon, and glue-applying pickers having movement perpendicular to the plane of the labels, and that act in conjunction with the label-holder for adhesively taking labels, one at a time, therefrom; of a supplemental glue-applying device consisting of a glue-carrying roller, the length of which approximately corresponds to the space between said pickers, and means for passing said glue-applying roller in longitudinal relation to the glue-applying picker plates, into contact with the central area of the label, without touching the extreme edges thereof, and before said label is taken from the label-holder by said pickers.

13. The combination, of a bottom-delivering label-holder, a gluing roller that travels across the central portion of the under label on said label-holder, a carrier for said roller, means for operating said carrier, glue-applying pickers that act to take labels, one at a time, from said label-holder, a carrier for said pickers, a label-retaining device that acts against the under label, and means for operating said label-retaining device controlled by movement of the picker-carrier.

14. In a labeling machine, the combination of a top-charged bottom-delivering label-holder, comprising means for supporting a plurality of packs of labels thereon, a label-gluing device that traverses in contact with the surface of the label underneath said label-holder, and returns to position out of alinement with the path of the label; a label-retaining means that simultaneously engages the under label in each of the several packs, and mechanisms for actuating said label-gluing device and said label-retaining means to bring them into acting engagement with the labels upon said label-holder.

15. The combination, of a bottom-deliver-

ing label-holder, a vertically moving picker-carrier, horizontal-faced pickers thereon, a glue-reservoir and glue-delivering roll, a transfer-roller for conveying glue therefrom to the face of the pickers, swinging arms carrying said transfer-roller, a supplementary carrier pivotally mounted in connection with one of said arms, a central label-gluing roller supported on said supplementary carrier to act against the under-label upon said label-holder, a controlling connection attached to said supplementary carrier, and means for actuating said connection for controlling the position of said carrier and gluing roller in relation to the surface of the label.

16. The combination with devices for placing and affixing labels upon articles, of a top-charged bottom-delivering label-holder, a pair of retaining fingers that move into conjunction with the under label upon said label-holder, a pair of swinging arms supporting said fingers, a glue-applying roller that travels across the label between said fingers, means for moving said roller back and forth, means for controlling the elevation of said roller in its path, and means for supplying glue to the face of the roller.

17. The combination, of means for supporting a pack of labels for delivery, pickers that take labels singly from said pack, means for moving said pickers to and from the pack, a glue-supply means, a glue-applying device that receives glue from said supply and travels across the label pack to deposit a film of glue upon the exposed label, a pair of label-retaining members adapted for clamping said label adjacent to the path of said glue-applying device, means for supporting said retaining members, an actuating means whereby said label-retaining members are advanced into contact with the label, and retracted out of the path of the pickers as the latter approach the pack, and means for operating the said glue-applying device synchronous with the clamping of the label.

18. In a labeling machine, the combination, of a bottom-delivering label-holder, means for supporting the label-holder in an overhanging position, a vertically reciprocating picker-carrier, pickers mounted on said carrier that coact with said label-holder for taking labels therefrom, a pair of label-retaining fingers, a pair of swinging arms pivotally connected at one end to a support and carrying at their other end said label-retaining fingers suspended to swing into and from contact with the under label upon said label-holder, a pivotally supported angle-lever provided with a contact member or roll-stud, a rod connecting one arm of said angle-lever with an ear upon one of

said swinging arms, and a cam-piece attached to the picker-carrier and engageable with the contact member of said angle-lever.

19. In a machine for affixing labels upon bottles or the like, the combination, of a top-charged bottom-delivering label-holder, means for primarily glue-coating the central portion of the under-label thereon, devices for retaining said label while receiving the glue-coating, means for advancing the retaining-devices and pressing the same yieldingly against the under-label, means for positively retracting said retaining devices, reciprocating pickers that subsequently glue-coat the end portions of said label, take it from the label-holder and transfer it to a position for affixment to the bottle, a grip-device for pressing the central glued portion of the label against the bottle, and laterally and vertically moving wipers that wipe down the end portions of the label.

20. In a machine for affixing labels to bottles or the like, the combination, of a stationary rest, a top-charged bottom-delivery label-holder, a support therefor having engaging devices whereon the label-holder is sustained in an overhanging position above said rest, vertically moving horizontal-faced glue-applying pickers that act in conjunction with said label-holder for taking labels singly therefrom, means for spreading glue upon the faces of said pickers, a supplementary glue-applying roller that acts to apply glue to the central portion of the label, means for effecting and controlling the movement of said glue-applying roller, means for temporarily sustaining said label while receiving its central coat of glue, mechanism for advancing and retracting the sustaining devices, a grip-device that presses the central glued portion of the label upon the bottle or article, and vertically and laterally moving wipers for wiping the respective ends of the label down upon the bottle.

21. In a labeling machine, the combination with means for affixing labels to bottles or the like; of an overhanging bottom-delivering label-holder, glue-applying pickers that take labels singly therefrom, a glue-box and glue-delivering roll, a roller that transfers glue therefrom to the face of the pickers, swinging arms carrying said transferring roller, a tilting carrier-lever fulcrumed on a projecting member fixed to one of said arms, a supplementary label-gluing roller, its axis mounted on said carrier-lever, said transferring roller and gluing-roller adapted to move into conjunction with the glue-delivering roll, an operating shaft, a cam thereon that actuates said swinging arms, a cam for controlling said tilting carrier-lever, connections that transmit motion from

said cam to the carrier-lever, and a retractable means that moves under the label-holder for retaining the label while said gluing-roller is in contact therewith.

- 5 22. The combination, with the label-holder, label affixing means, a center-gluing roller, and the carrier supporting said center-gluing roller; of a roll-supporting axis-stud having a recessed bearing surface upon
10 which the hub of the roller runs, a lip and

shoulder at the respective ends of said bearing surface, and having the under side of said stud beveled off at its outer end, for the purpose set forth.

Witness my hand this 2nd day of February, 1909.

FRANK O. WOODLAND.

Witnesses:

CHAS. H. BURLEIGH,
A. G. DAVIS.