H. F. RICHTER.

LABEL AFFIXING MACHINE.

APPLICATION FILED AUG. 7, 1915.

1,274,600.

Patented Aug. 6, 1918.

5 SHEETS—SHEET 1.

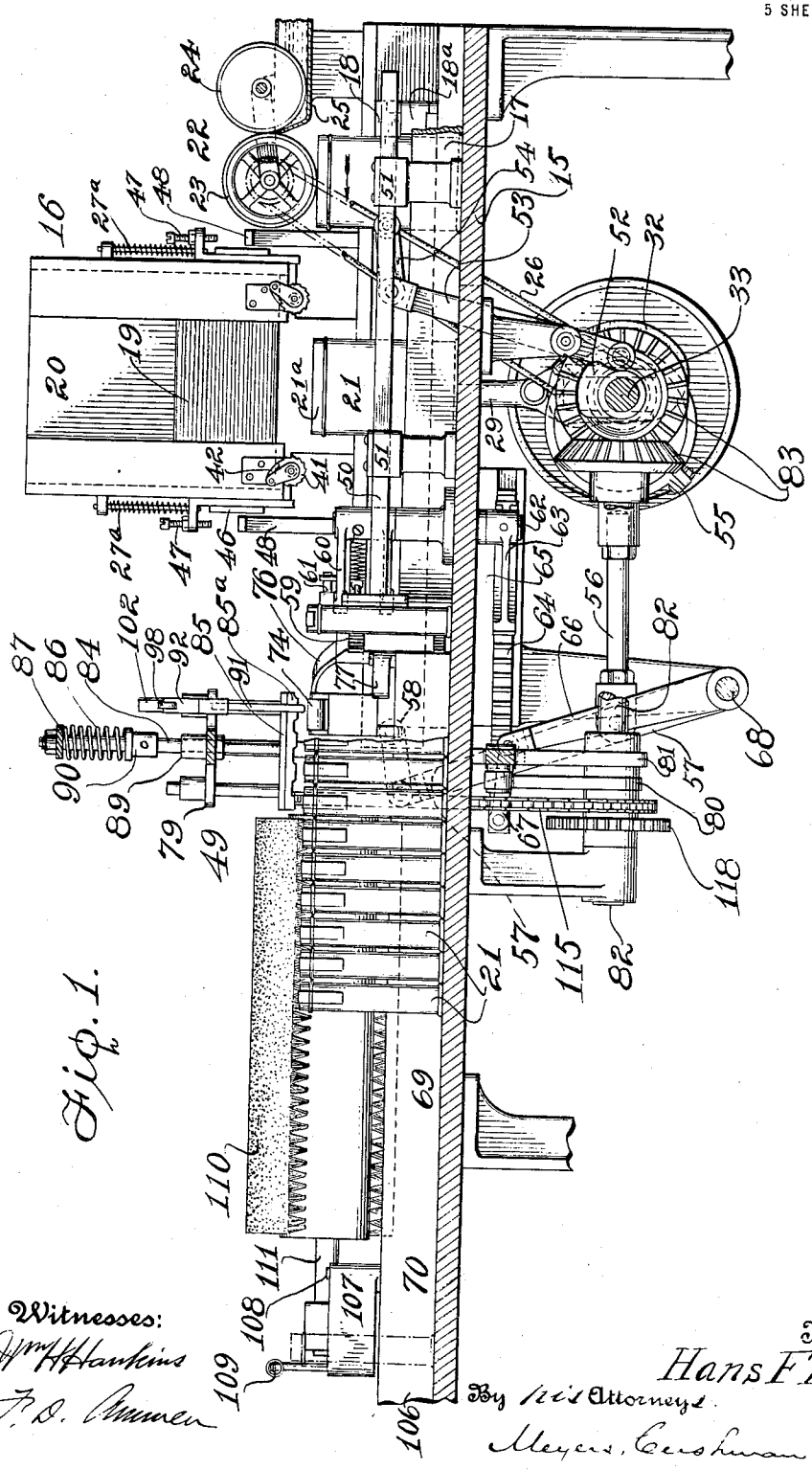


Fig. 1.

Witnesses:

Wm. H. Hankins

F. D. Cummer

Inventor

Hans F. Richter:

By his Attorneys

Meyers, Cushman & Co.

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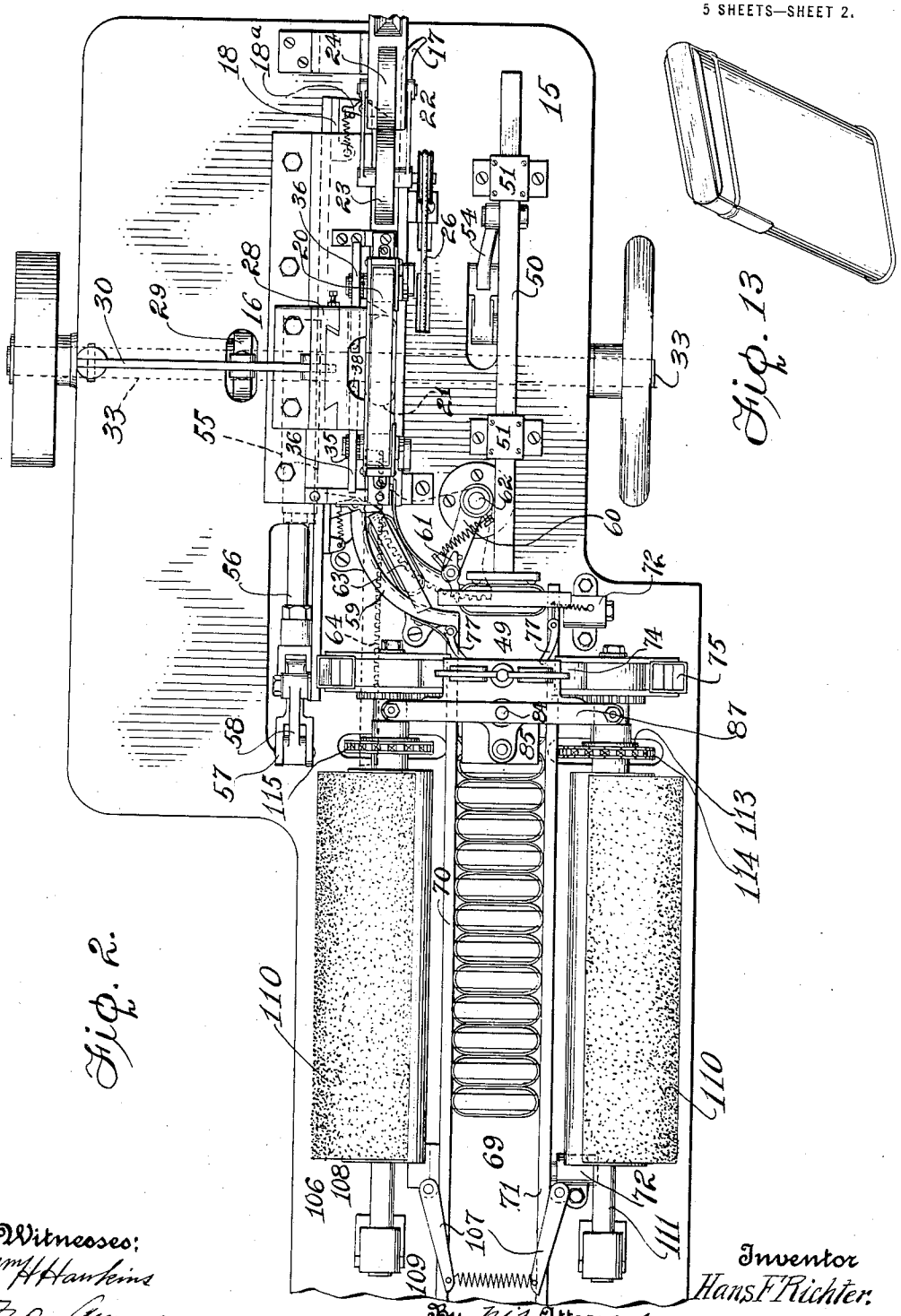


Fig. 2.

Fig. 13.

Witnesses:
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F. D. Cranmer

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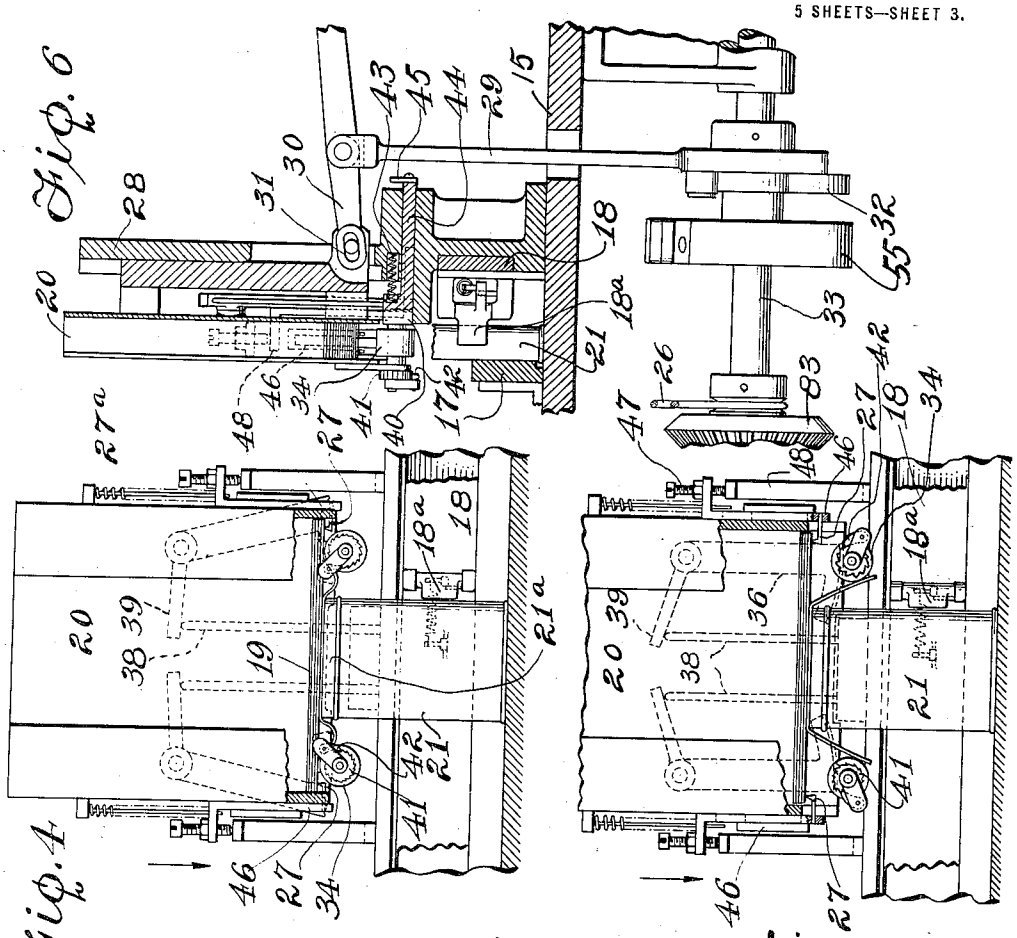


Fig. 6

Fig. 4

Fig. 5

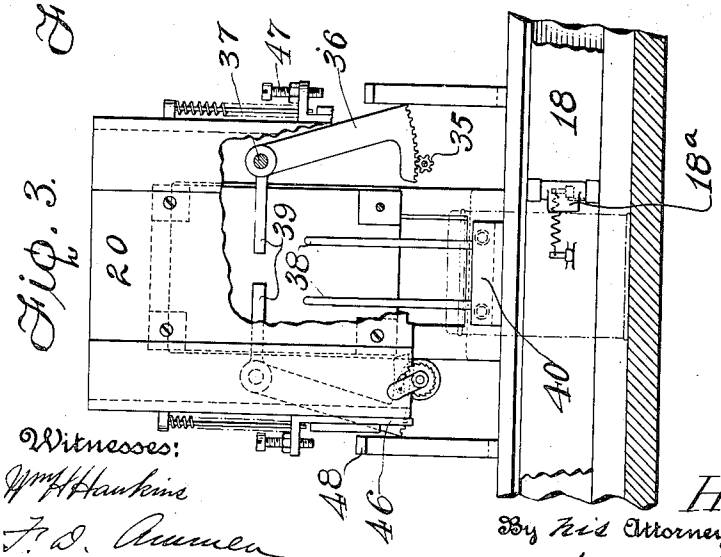


Fig. 3

Witnesses:

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5 SHEETS—SHEET 4.

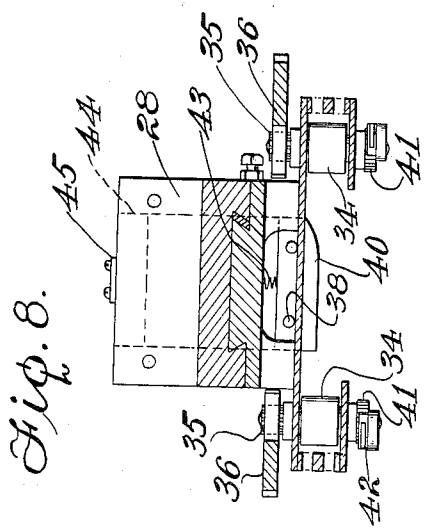


Fig. 8.

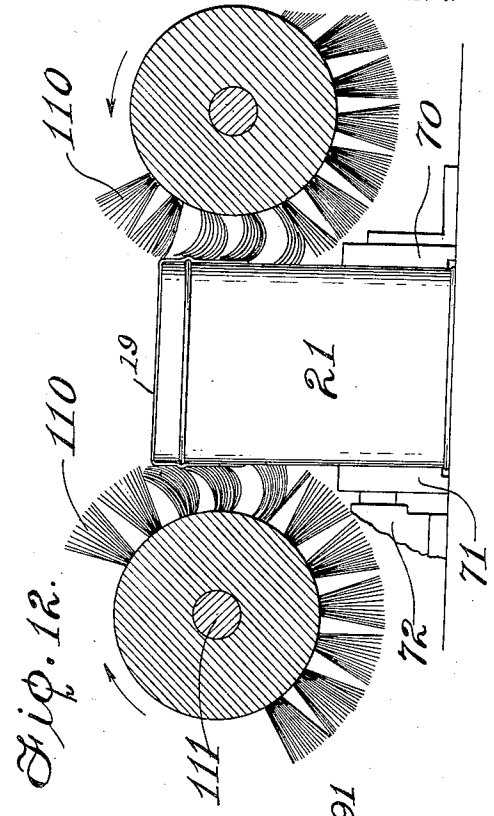


Fig. 12.

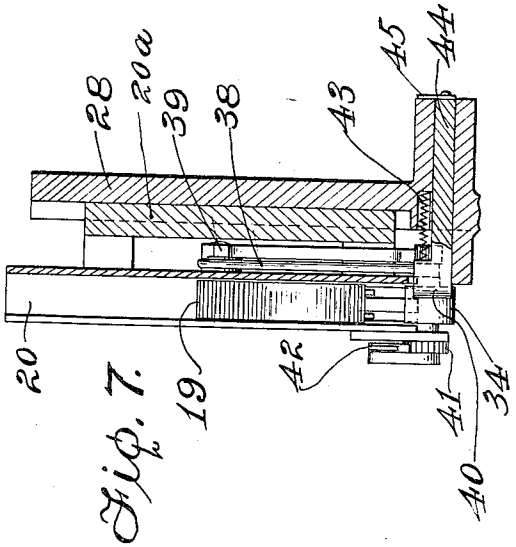


Fig. 7.

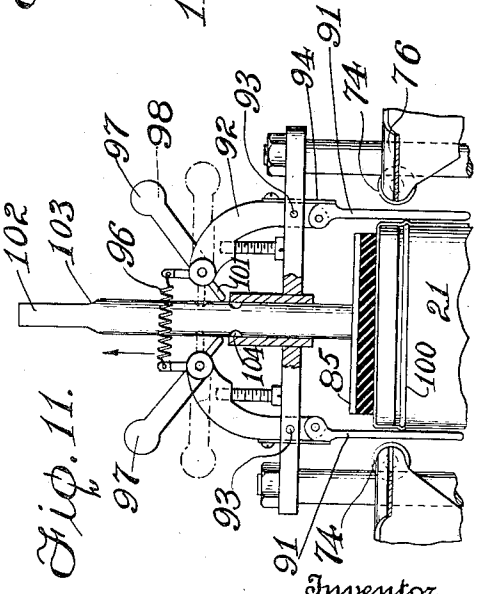


Fig. 11.

Witnesses:

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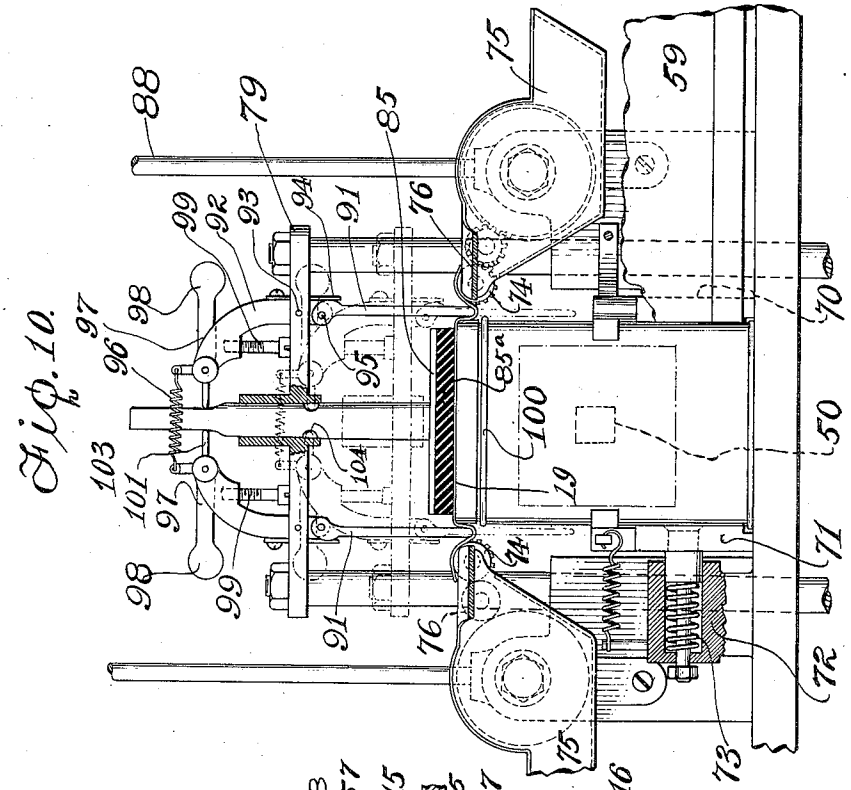


Fig. 10.

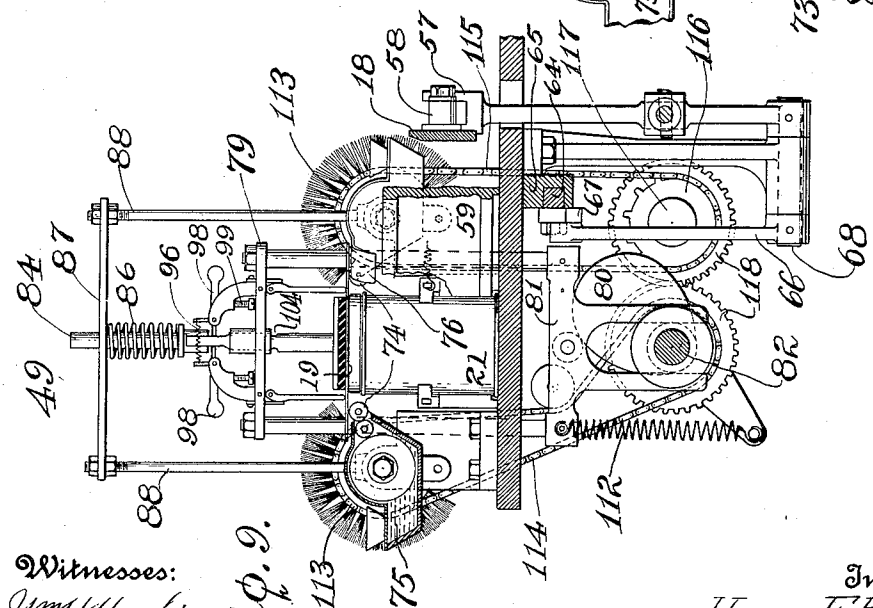


Fig. 9.

Witnesses:

Wm. H. Hawkins

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By his Attorneys.

Meyers, Cushman & Rea

UNITED STATES PATENT OFFICE.

HANS F. RICHTER, OF WINSTON-SALEM, NORTH CAROLINA, ASSIGNOR TO R. J. REYNOLDS TOBACCO COMPANY, OF WINSTON-SALEM, NORTH CAROLINA, A CORPORATION OF NEW JERSEY.

LABEL-AFFIXING MACHINE.

1,274,600. Specification of Letters Patent. Patented Aug. 6, 1918.

Application filed August 7, 1915. Serial No. 44,187.

To all whom it may concern:

Be it known that I, HANS F. RICHTER, a citizen of the United States, residing at Winston-Salem, in the county of Forsyth and State of North Carolina, have invented new and useful Improvements in Label-Affixing Machines, of which the following is a specification.

This invention relates to machines for attaching stamps or labels to articles, and while the invention may be employed in machines for various specific purposes, by way of example I have described the invention as applied to a machine for applying stamps or labels to packages.

A principal object of the invention is to produce a simple and efficient machine for affixing stamps or labels, to the wall of an article such as a package, and which is capable of performing the operations very quickly, thereby giving the machine a large capacity or output.

A further object of the invention is to provide means for enabling the stamp or label to be affixed to more than one wall of the article or package.

A further object of the invention is to provide means enabling the machine to operate in such a way that a portion of the label is first affixed to the package and the remaining portion of the label is affixed to the wall of the package afterward.

A further object of the invention is to provide means for effecting the affixing of the label in the manner just suggested by applying an adhesive substance to the wall of the package to enable a portion of the label to be affixed thereto, and to provide means operating thereafter to apply an adhesive substance to the unattached portion of the label which is thereafter affixed to the wall of the package by the machine.

In the present instance the machine is intended to apply stamps or labels to the end walls of packages, and the packages have near their end walls a bead which in a sense may form a certain obstruction or obstacle in the path of the instrumentalities for affixing the label; one of the objects of the present invention is to provide improved means for applying a label to such a package, having specially constructed means for applying the label over such a bead or rib, as suggested above; and also to provide means for insuring that the parts of the label attached to the bead will become securely affixed.

A further object of the invention is to provide such a machine with means for preventing the actuation of parts of the label affixing mechanism in case a package fails to be fed or advanced into position to receive the label.

Further objects of the invention will appear more clearly hereinafter.

The invention consists in the general combination of parts and details described hereinafter, all of which contribute to produce an efficient label affixing machine.

A preferred embodiment of my invention is described in the following specification while the broad scope of the invention is pointed out in the appended claims.

In the drawings,

Figure 1 is a longitudinal vertical section through a machine embodying my invention, certain parts being broken away.

Fig. 2 is a plan of the machine illustrated in Fig. 1, certain parts being broken away.

Fig. 3 is a longitudinal section broken away, illustrating details of the mechanism for performing the first part of the operation of affixing the label.

Fig. 4 is a view similar to Fig. 3 but showing the parts in another position and representing the label as applied to a wall such as the end wall of a package. This view also illustrates the operation of separating means for controlling the still unattached parts of the label which are later to be affixed to the package.

Fig. 5 is a view similar to Fig. 4 but showing a further stage in the operation.

Fig. 6 is a vertical section taken through the mechanism shown in Figs. 3 to 5, but in a plane at right angles to the plane in which Figs. 3 to 5 are shown. This view illustrates contiguous parts for operating the mechanism shown in Figs. 3 to 5. It further illustrates details of means for preventing the operation of the separating devices which detach the unattached portions of the label from the magazine, which mechanism is also illustrated in Figs. 3 to 5. This mechanism prevents the separation of the label from the magazine in case a package

fails to feed into position to receive the label.

Fig. 7 is a vertical section similar to Fig. 6 but at another point, and illustrates the manner in which the presence of a package in the position to receive the label controls the operation of the label affixing or separating means.

Fig. 8 is a horizontal cross section taken near the lower portion of the mechanism shown in Figs. 3 to 7 and further illustrates details of this mechanism.

Fig. 9 is a vertical section through the machine to illustrate details of the label affixing mechanism which operates after the mechanism just described, and the purpose of which is to effect the complete affixing of the label to the package.

Fig. 10 is a view similar to Fig. 9 but upon an enlarged scale, showing the parts of the mechanism at a further stage of the operation.

Fig. 11 is a sectional view further illustrating the operation of the mechanism shown in Figs. 9 and 10 and this view shows the means for extending the heretofore unattached parts of the label along the sides of the package and shows these parts in the act of being withdrawn after having performed their function.

Fig. 12 is a cross section further illustrating details for insuring that the last affixed parts of the label will not become detached from the package.

Fig. 13 is a perspective of the labeled package.

Before proceeding to a detailed description of the mechanism illustrated, and in order to facilitate the disclosure of the invention, it is to be understood that in the present embodiment of the invention the mechanism may be considered as consisting of label affixing mechanism which effects the first part of the operation, namely, that of affixing a portion of the label to the package, and secondly, of label affixing mechanism, the purpose of which is to complete the affixing of the label to the package.

Referring now especially to Fig. 2, the machine preferably comprises an elevated table 15 which is provided with label affixing mechanism 16 for affixing a portion of the label to the package. The details of this mechanism 16 are illustrated most clearly in Figs. 3 to 6. This mechanism preferably operates in such a way that an adhesive substance or glue is applied to the wall such as the end wall of the package, and this is most conveniently done while the package is being fed past an adhesive applying device.

The packages, by way of example, may be relatively thin flat packages such as the package 21 illustrated, and this package, on account of its relatively thin flat form, has an elongated end wall. I prefer to feed forward these packages on a feeding line parallel or coinciding with the longitudinal axis of the end wall to which the label is to be applied, and this may be accomplished by any suitable means such as by means of a guide 17 on the table. Adjacent to this guide, suitable means is provided for effecting the feeding forward or advance of the packages separately one by one in order to position them at the point where they are to receive the label. In the present instance this means consists of a reciprocating bar 18, extending substantially parallel with the guide 17, and this bar is provided with a plurality of spring-pressed or spring-pulled dogs 18^a. At each outward movement of the feed bar each dog trails past the package and engages the outer edge or side of the package, and on the inward movement it advances this package. In this way the packages are advanced by a step-by-step movement. This operation results in positioning every package for a short space of time at the point where it is to receive the label, that is, adjacent the label affixing mechanism 16, past and adjacent to which the guide 17 extends.

The labels 19 which are to be applied to the packages are preferably held in a stack or pack in a magazine 20 which is located adjacent to the path of the end wall of the package 21. In the present instance this end wall is on a hinged cover 21^a on the package 21. As the packages are fed forward into position to receive the label, they pass adjacent to an adhesive applying device 22 which may be of any suitable construction, but preferably comprises a glue applying roller 23, the face of which constantly rolls against a wallower or roller 24 which dips into a bath 25 of glue or a similar adhesive. I prefer to rotate the roller 23 by any suitable means such as the belt 26 so as to cause the face of the roller 23 to move at a different speed from the package, and this produces a desirable wiping effect of the gluing roller upon the package.

The magazine 20 is preferably without a bottom and is of the proper shape to support the labels 19 which are, by the way, preferably of greater length than the end wall of the package to which they are to be applied. The magazine is preferably provided at its lower end with end supports 27 which support the ends of the labels in the pack. By this arrangement the foremost or bottom label in the pack is left exposed on its under face. When the package 21 is properly positioned under the magazine 20, a relative approaching movement between the package and magazine is effected in order to apply the middle portion of the foremost or bottom label of the pack to the glued wall of the package.

In order to accomplish this, I prefer to

mount the magazine 20 upon a slide 20ª reciprocating vertically in a vertical guide 28. The magazine may be reciprocated through the medium of a link 29 connected with a lever 30 having a pin and slot connection 31 with the back of the magazine, and the said link may be actuated by a cam 32 on the continuously driven main shaft 33 of the machine.

I prefer to control the label affixing mechanism so that if for any reason the package fails to feed into position to receive a label, the bottom label will not be disengaged from the magazine. In other words, the magazine is constantly reciprocating, and if a package is in position, the label will be applied to it. I prefer to control this mechanism by the package itself, and this is preferably accomplished through the medium of a part which lies in the path of the package, and which is displaced by the package when positioned to receive the label. For this purpose, near the ends of the magazine, I prefer to provide two separating devices preferably in the form of two rollers 34, the upper faces of which are normally resting against the lower face of the bottom label in the pack. If a package is in position, these rollers are rotated automatically at about the time that the bottom label descends with and is applied by the magazine to the upper wall of the package. This detaches the projecting end portions of the label from the end supports. I also prefer to give these separating devices or rollers a slight downward movement thereafter so as to force the projecting ends of the label down and along the sides of the package.

In order to effect this, I prefer to provide the shafts of the rollers 34 with pinions 35, see Fig. 3. These pinions are actuated at the proper time by segments 36 which are pivotally supported on pins 37 preferably directly on the magazine. These segments 36 are actuated by a relatively fixed means as they advance with the magazine in its advancing movement toward the package. This relatively fixed means is preferably in the form of two pins 38 which should be in the path of two corresponding arms 39 which are rigid with the segments 36. These pins 38 are mounted in a block 40 which is engaged by the flat side face of the package and move back so that they come into the path of the arms 39 if a package is in position; otherwise, the arms 39 simply pass idly by the stems or pins 38 and the rollers are not actuated. Evidently the rollers are rotated in such a way that the upper surface of each roller which is in contact with the label moves toward the package.

In order to prevent a reverse rotation of the rollers, each roller is provided with a ratchet wheel 41 and a coöperating pawl 42. The block 40 is normally pressed yieldingly outwardly by means of a spring 43, see Fig. 6, which may be set in the base of the guide 28.

The base of the guide 28 also forms a guide for guiding an extension 44 of the block. A small stop 45 is provided on the rear of this extension which limits the forward movement of the block or shoe 40. In order to give the separating devices or rollers 34 a further downward movement such as illustrated in Fig. 5, I prefer simply to give the magazine an increased movement, that is, a greater movement than would be simply necessary to affix the bottom label to the end wall of the package, but in order to support the pack of labels, I prefer to provide means for arresting the downward movement of the end supports 27. In order to effect this result, the end supports 27 are preferably mounted in guides 46 on the ends of the magazine so that they have a limited vertical sliding movement on the magazine. The end supports are also preferably provided with adjusting screws 47 which abut against fixed stops 48 in their path which evidently will arrest the forward movement of the end supports. This mechanism evidently will operate to force down the unattached portion or portions of the label so that they will assume some such position as that illustrated in Fig. 5. In other words, the magazine advances to affix the label and then withdraws. The end supports 27 are preferably pressed yieldingly toward their extreme low position on the magazine by means of suitable springs 27ª.

The packages are then to be treated by the second label affixing mechanism 49, the function of which is to complete the affixing of the label to the package. Having advanced the packages along a feeding line coinciding with the longitudinal axis of the end wall of the package, I prefer now to advance the packages along a feeding line coinciding with the transverse or short axis of the end wall of the package, and the label affixing mechanism 49 preferably operates to apply an adhesive to the projecting portion or portions of the label which remain unattached and then affix these heretofore unattached parts to the package. Any suitable means may be provided for effecting this operation, but in the present instance I provide a reciprocating plunger 50 which feeds the packages one by one along a feeding line past the label affixing mechanism 49. This feed plunger 50 is preferably guided to slide in suitable guides 51 and is preferably reciprocated by means of a cam 52 on the aforesaid shaft 33, see Fig. 1. This cam rocks lever 53 which is connected at its upper end by a link 54 with the plunger.

The feed bar 18 should be referred to

again in order to explain how it is actuated. It may be actuated in any suitable manner. In the present instance this is accomplished by means of an eccentric 55, see Fig. 1, which is on the shaft 33, and operates an eccentric rod 56 which is connected to a lever 57, said lever being connected by a link 58 with the end of the bar 18.

Means is provided for advancing each package from the mechanism 16 to a position before the plunger 50 preparatory to effecting the complete affixing of the label. This means preferably also operates to give the package a partial rotation before it is advanced in a direction along the feeding line coincident with the transverse or short axis of the end wall.

This mechanism preferably comprises a curved guide 59 into which the package is advanced by the reciprocating feed bar 18. This means also preferably includes a member or part moving about an axis to further advance the package from the guide and bring it into position before the plunger. For this purpose I prefer to provide a rocking or swinging arm 60 carrying means for engaging the rear edge or side of the package. This is preferably in the form of a spring-pressed dog 61 carried on the end of the arm. The arm 60 secured to a vertical shaft 62 which extends through the table and the lower part of the shaft, is rotated or rocked to and fro by any suitable means. This rocking movement is preferably accomplished through the medium of a segment 63 attached to the shaft and which meshes with a reciprocating rack 64, see Figs. 1 and 2. This rack 64 is mounted to slide in a suitable guide 65 on the under side of the table and is reciprocated through the medium of a lever 66, the upper end of which is attached by a link 67 to the end of the rack. The lever 66 is attached to a shaft 68 to which the aforesaid lever 57 is attached so that the lever 57 imparts its rocking movement to the lever 66 through the rocking shaft 68.

In line with the reciprocating plunger 50, that is, on the second feeding line, I prefer to provide a receiver 69 toward and into which the plunger 50 moves the packages. This receiver 69 is preferably substantially in the form of an open trough, comprising a fixed guide or side rail 70 and a yieldingly pressed side rail 71. The means for yieldingly pressing the side rail 71 inwardly preferably comprises two spring barrels 72 in which springs 73 are located, see Fig. 10.

In order to complete the affixing of the label to the package, I prefer to apply an adhesive or glue to the projecting end portions of the label after the package has been positioned before the plunger 50. For this purpose, I prefer to provide two separated glue applying devices, preferably in the form of two rollers 74, each of which is supplied with an adhesive or glue from a suitable receiver 75. As the package is moved forward by the plunger between these rollers, I prefer to guide the projecting end portions of the label so that they will pass over the rollers. This is preferably accomplished by means of slightly curved or bent plate form guides 76. These guides are omitted in Fig. 2 to prevent them from hiding any details of the construction.

In order to assist in holding the package in position between the rollers 74, I prefer to provide two detent pawls 77 which are preferably spring pressed, as shown. The ends of these pawls engage the rear side edges of the package and prevent its receding with the plunger. When the package with the partially affixed label is in position between the rollers 74, see Fig. 9, members operate to effect the smearing of the end portions of the label with the adhesive by wiping them on the faces of the rollers 74 and then operate to extend these unattached portions of the label down along and against the sides of the package. In order to accomplish this effect, I prefer to provide a crosshead 79, see Fig. 9, which is preferably reciprocated in a substantially vertical plane by a cam 80, operating upon a yoke 81. This cam is mounted upon a cam shaft 82 which is actuated by bevel gears 83 from the main shaft 33 of the machine. Sliding freely through the middle portion of the crosshead 79, there is provided a stem 84 which carries a presser head 85 at its lower end, or similar means for pressing the affixed portion of the label on the package at the time that the unattached portions are being extended down the side of the package. The under face of the presser head is provided with a yielding cushion 85[a] of rubber or similar resilient material. This presser head 85 is resiliently pressed toward the packages beneath it by means of a spring 86 disposed around the stem 84 and thrusting at its upper end against a cross bar 87, said cross bar being supported on fixed stems 88.

From this arrangement evidently, when the cross head moves up to its uppermost position, the guide sleeve 89 on the cross head will engage a fixed sleeve 90 on the stem 84 and lift the stem and presser head 85 so as to permit the advancing movement of the packages under the head through the action of the plunger 50. When the cross head has descended slightly from its highest position, it lets the presser head down on the packages through the action of the spring 86. The descent of the cross head operates means for wiping the unattached parts of the label across the rollers 74. This means is preferably in the form of two fingers 91, said fingers being pivotally at-

tached at their upper ends to the lower ends of brackets 92 which are preferably pivoted at 93 on the cross head, see Fig. 10. The arrangement is such that if the upper parts of the brackets 92 are rocked outwardly, the fingers 91 will be yieldingly pressed inward through the medium of springs 94 which are preferably in the form of leaf springs attached near their upper ends to the brackets 92 and pressing near the lower ends against the sides 91 below the pivots 95 of the fingers. The brackets 92 are pulled toward each other preferably by means of a spring 96, with its ends attached to the brackets through two short counterweighted arms 97 having substantially horizontal counterweights 98. The inward pulling movement of the spring 96 results in holding the brackets 92 at their innermost extreme position which is determined by adjustable stops or screws 99 which screw into the upper parts of the brackets with the lower ends or heads of the screws to come against the crosshead 79. It is desirable to adopt such an arrangement as this in order to control the operation of the fingers 91 and enable them to pass the beads or ribs 100 which are on the packages illustrated. Such a bead is usually encountered on flat tobacco "tins" or cans.

When the cross head begins to descend, the lower ends of the fingers hang in a position which will enable them to pass the bead 100, but after they have passed the bead, the lower ends of the fingers move inwardly automatically so as to press the projecting end portions of the label against the sides of the package.

In order to accomplish this mode of operation, I prefer to provide the counterweighted arms 97 with rigid pawls 101 and impart an outward rocking movement through these pawls to the brackets 92. In order to effect this, I prefer to provide the presser head 85 with an upwardly extending stem 102 and this stem at a suitable point is provided with shoulders 103. When the cross head descends the lower ends of the fingers pass between the rollers 74 and the sides of the can, wipe the ends of the label on the surface of the rollers, and as soon as the lower ends of the fingers have passed the bead 100, the pawls 101 strike the inclined shoulders 103 where the size of the stem 102 increases. This rocks the brackets 92 outwardly, further extending the spring 96. However, the strength of the spring 96 is not sufficient to pull the pawls 101 downwardly and thus relieve the rockers or brackets 92 of their spreading movement. When the cross head, however, has completed its descent, the ends of the fingers 101 drop into notches 104 and this relieves the brackets 92 of the spreading movement and relieves the pressure of the springs 94 on the fingers 91. This enables the fingers to withdraw without maintaining contact with the label. If they did maintain such contact, they might tend to dislodge the attached ends of the label.

Now, when the cross head starts up, these pawls 101 simply trail on the side of the stem, see Fig. 11.

It is understood that the guide rails 70 and 71 are disposed below the level of the labels so that they do not tend to disturb the ends of the labels as the packages are moved inwardly between the rails. Between the rails 70 and 71 a plurality or bank of the packages will accumulate with their flat sides touching each other, and with the labeled ends of the packages exposed. The yielding pressure of the rail 71 against the packages, of course, resists their passage through the receiver, but in order to give additional yielding resistance, I prefer to provide near the rear or delivery end 106 of the receiver a pair of arms 107 which are pivoted at 108 and inclined in the direction in which the packages are advancing through the receiver. These arms are pulled toward each other by a spring 109 which is disposed at an elevation above the packages so as not to obstruct their advance, see Fig. 1. After the fingers 91 have operated to extend the ends of the label down the sides of each package, the ends of the labels are yieldingly pressed preferably repeatedly so as to insure that they will take a good hold on the wall of the package.

Now, in order to accomplish this result, I prefer to provide yielding wipers, preferably in the form of brushes 110 which are preferably rotary brushes mounted on shafts 111 which extend substantially parallel with the longitudinal axis of the receiver. These brushes are preferably not continuous circumferentially; in other words, they are preferably substantially semi-cylindrical, as viewed from their ends, see Fig. 9. Their upper faces rotate toward the packages so as to enable their bristles to strike and exert a sudden and yielding pressure wiping downwardly on the ends of the labels. Evidently, as the packages pass through the receiver, they will be acted upon again and again by these brushes.

The cross head 79 is preferably pulled down constantly by means of a spring 112. In order to rotate the brushes or wipers 110; I prefer to provide their shafts with sprocket wheels 113 over which endless chains 114 and 115 pass. The chain 114 passes around the sprocket wheel on the shaft 82 and the chain 115 passes around a similar sprocket wheel 116 on the stub shaft 117. The stub shaft 117 is rotated at the same speed but in the opposite direction from shaft 82 by suitable gear wheels 118.

I shall now describe the general mode of

operation of the entire machine. The packages are fed forward one by one by the feed bar 18 and dogs 18ª. In this way each package is made to pass under the glue applying roller 23 which applies the adhesive to the upper end of the wall of the package. Each package comes to rest and is positioned under the magazine 20 which is constantly reciprocating.

At each forward or downward movement of the magazine, the bottom label in the magazine is applied to the upper end wall of the package. After the bottom label is applied in this way, the magazine continues its downward movement and the stems 38 strike the arms 39 and actuate the segments 36 which operate to rotate the separating devices or rollers 34. These operate to detach the ends of the label from the end supports 27, and at the same time move downwardly so that they force the unattached end portions of the label down on the sides of the package. The magazine then withdraws and moves up high enough to carry the rollers 34 out of the path of the packages. The package which has just had a label applied to it, then passes on and a new package comes into position under the magazine.

The package with the label partially affixed passes into the curved guide 59 and is advanced and partially rotated by the swinging arm 60 which brings it around into position before the plunger 50. The plunger then advances and moves the package forwardly toward the receiver 69. As the package advances, the projecting end portions of the label come into position over the rollers 74 and the package comes to rest.

The presser head 85 is then let down on to the packages which are under the cross head 79 through the operation of the descending cross head. The presser head 85, therefore, operates to press firmly on the end of the package the previously affixed portion of the label. The descent of the cross head further operates to advance the fingers 91 which move down along the sides of the package, operating to engage the ends of the label and give the same a wiping movement across the rollers 74.

As soon as the lower ends of the fingers 91 have passed the bead 100 on the package, they move inwardly and press the ends of the label against the sides of the package. This, to a certain extent, affixes the label to the package. When the cross head 79 moves upwardly it carries with it the fingers 91, and near the end of its upward movement it strikes the sleeve 90 and pulls up the stem 84, which carries the presser head 85. This raises the presser head and enables the packages under the head to be advanced. The movement of the bank of packages in the container 69 is a step-by-step movement, each movement being equal to the width or thickness of one of the packages. On account of the considerable width of the presser head 85, it therefore follows that it would descend repeatedly upon the same package. In this way the middle portion of the label on each package will be pressed again and again by the presser head.

As the packages move through the receiver 69, the end portions of the labels are repeatedly and yieldingly pressed by the wipers 110 so as to insure that they will take a good hold on the side walls of the packages.

It is understood that the embodiment of the invention set forth herein is only one of the many embodiments or forms the invention may take, and I do not wish to be limited in the practice of the invention nor in my claims to the particular embodiment set forth. And I may use any feature of my invention without the other features.

What I claim is:

1. In a machine for affixing stamps or labels to packages, in combination, supporting means for holding a plurality of labels with the outer face of the foremost label exposed, means for applying an adhesive to the wall of the package which is to receive the label, means for effecting a relative movement between said supporting means and each package to press that wall of the package against the outermost label, leaving an end portion of the label unattached to the package, means operating upon said end portion of the label which extends beyond the package operating to detach the end portion of the label from said supporting means, and means operating thereafter for affixing the said end portion of the label to a side wall of the package.

2. In a machine for affixing stamps or labels to packages, in combination, supporting means for holding a plurality of labels which are to be applied to packages with the outer face of the foremost label exposed, means for effecting a relative movement between said supporting means and each package to press a wall of the package against the outermost label with an end portion of the label unattached, means controlled by the package for operating upon a projecting end portion of the label which extends beyond said wall for detaching said projecting end portion of the label from said supporting means, means operating thereafter to apply an adhesive to the projecting end portion of the label, and means for affixing the said projecting end portion of the label to a side wall of the package.

3. In a machine for affixing stamps or labels to packages, in combination, a magazine for the stamps or labels, means for advancing the packages so that a wall of

each package passes adjacent to said magazine, means for affixing a label from said magazine to the adjacent wall of the package so that the end portions of the label project from the package, means for applying an adhesive to the projecting portions of the label, and means for applying and affixing said end portions of the label to the side walls of the package.

4. In a machine for affixing stamps or labels to packages, in combination, supporting means for holding a plurality of labels of greater length than the wall to which they are to be applied, with the outer face of the foremost label exposed, means for effecting a relative movement between said supporting means and each package to press a wall of the package against the outermost label to affix a portion of the label, with the end portions of the label unattached, means operating upon the said end portions of the label which extend beyond said wall for detaching the same from said supporting means, and means operating thereafter to affix the end portions of the label to the side walls of the package.

5. In a machine for affixing stamps or labels to packages, in combination, supporting means for holding a plurality of labels of greater length than the wall to which they are to be applied, with the outer face of the foremost label exposed, means for applying an adhesive to the wall of the package which is to receive the label, means for effecting a relative movement between said supporting means and each package to press that wall of the package against the outermost label, means operating upon the end portions of the label which extend beyond the package, operating to detach the end portions of the label from said supporting means, means operating thereafter to apply an adhesive to said end portions of the label, and means for affixing the end portions of the label to the side walls of the package.

6. In a machine for affixing stamps or labels to packages, in combination, supporting means for holding a plurality of labels of greater length that the wall to which they are to be applied, with the outer face of the foremost label exposed, means for effecting a relative movement between said supporting means and each package to press a wall of the package against the outermost label, means controlled by the package for operating upon the projecting end portions of the label which extend beyond said wall for detaching the projecting end portions of the label from said supporting means, means operating thereafter to apply an adhesive to the projecting end portions of the label, and means for affixing the projecting end portions of the label to the side walls of the package.

7. In a machine for affixing stamps or labels to packages, in combination, a movable magazine for holding a plurality of labels of greater length than the wall to which they are applied, with the outer face of the foremost label exposed, means for advancing the packages one by one into position adjacent the magazine, means for applying an adhesive to the wall of each package which is to receive the label, means for moving the magazine toward the package which is positioned to receive the label and operating to press the foremost label against the adjacent wall of the package, means for disengaging the projecting end portions of the label which extend beyond said wall from the magazine, means operating thereafter to apply an adhesive to the projecting end portions of the label, and means for affixing the projecting end portions of the label to the side walls of the package.

8. In a machine for affixing stamps or labels to packages, in combination, a reciprocating magazine for holding a plurality of labels, means for advancing a plurality of packages successively into position adjacent said magazine to receive labels directly therefrom, means for reciprocating the magazine to effect the application of one of the labels from the magazine to each package fed to label receiving position, means for positively engaging and separating an end of the lowermost label from the others in the magazine, and means in the path of the package and actuated by the package for controlling the last named means to prevent the actuation of the label separating means when a package fails to feed into position adjacent the magazine.

9. In a machine for affixing stamps or labels to the ends of packages, in combination, means for advancing the packages with a selected face foremost along a substantially horizontal feeding line, means for partially affixing a label to the end of each package with an unattached portion extending from the package, means for partially turning the packages during advancing movement and for causing them to move along a second feeding line extending in a direction transverse to the said first named feeding line and with a different face foremost, and means for affixing said unattached portion of the label to the package while on said second feeding line.

10. In a machine for affixing stamps or labels to packages, in combination, a bodily movable magazine for holding a plurality of labels, label separating means associated with said magazine for positively engaging and separating an end of the lowermost label from the others in the magazine, means for advancing the packages in succession into position adjacent said magazine to re-

ceive the labels therefrom, a continuously driven member for reciprocating the magazine, and means actuated by the package when in position adjacent the magazine for effecting a connection between said continuously driven member and said label separating means to effect the application of a label from the magazine to the package, only when a package is in label receiving position.

11. In a machine for affixing stamps or labels to packages, in combination, a movable magazine for holding a plurality of labels, label affixing means associated with said magazine, means for advancing the packages in succession into position adjacent said magazine to receive the labels, a continuously driven member for reciprocating the magazine, means actuated by the package when in position adjacent the magazine for effecting a connection between said continuously driven member and said label affixing means to enable said driven member to effect the application of a portion of a label from the magazine to the package, and means operating thereafter to apply the remaining portion of the label to the package.

12. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which each label is to be applied, with the foremost label in the magazine exposed, means for positioning a package adjacent the magazine and for effecting a relative movement between the package and the magazine to press the foremost label in the magazine against the adjacent wall of the package, means for engaging the projecting end portions of the label which extend beyond the package and for forcing the same inwardly toward the package, and means for affixing the said projecting end portions of the label to the walls of the package thereafter.

13. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which each label is to be applied, with the foremost label in the magazine exposed, means for positioning the package adjacent the magazine and for effecting a relative movement between the package and the magazine to affix the middle portion of the foremost label in the magazine on the adjacent wall of the package, means operating thereafter for engaging the projecting end portions of the label which extend beyond the package and for forcing the same inwardly toward the package, said last named means operating to move along the side of the package as it moves the end portions of the label toward the package, and means operating thereafter for affixing the said projecting end portions of the label to the walls of the package.

14. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which the label is to be applied, with the foremost label in the magazine exposed, means for positioning the package adjacent the magazine and for effecting a relative movement between the package and the magazine to affix the foremost label in the magazine upon the adjacent wall of the package, rollers for engaging the projecting end portions of the label which extend beyond the package, means for rotating said rollers to disengage the end portions of the foremost label from the magazine, and to force the same inwardly toward the package, and means operating thereafter for affixing the said projecting end portions of the label to the walls of the package.

15. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which each label is to be applied, with the foremost label in the magazine exposed, means for positioning the package adjacent the magazine and for effecting a relative movement between the package and the magazine to affix the middle portion of the said foremost label to the adjacent wall of the package, rollers for engaging the projecting end portions of the label which extend beyond the package, means for rotating said rollers to disengage the ends of the label from the magazine and for simultaneously moving said rollers bodily along the wall of the package to force the projecting ends of the label inwardly toward the package, and means operating thereafter for affixing the said projecting ends of the label to the walls of the package.

16. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which each label is to be applied, with the foremost label in the magazine exposed, means for positioning the package adjacent the magazine and for effecting a relative movement between the package and the magazine to affix the middle portion of the said foremost label to the adjacent wall of the package, rollers for engaging the projecting end portions of the label which extend beyond the package, means for rotating said rollers to disengage the ends of the label from the magazine and for simultaneously moving said rollers bodily along the wall of the package to force the projecting ends of the label inwardly toward the package, means for applying an adhesive to the projecting ends of the label, and means operating thereafter for affixing the said projecting ends of the label to the walls of the package.

17. In a machine for affixing stamps or

labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which the label is to be applied, with the foremost label in the magazine exposed, means for positioning the package to be labeled adjacent the magazine and for effecting a relative movement between the package and the magazine to affix the middle portion of the said foremost label to the adjacent wall of the package, with the projecting end portions of the label extending beyond the package, rollers normally engaging the said foremost label, said magazine having end supports for the ends of said labels, means for rotating said rollers to disengage the ends of the foremost label from said end supports and for forcing the same toward the package, and means for affixing the end portions of the label to the walls of the package.

18. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels of greater length than the wall to which the label is to be applied, with the foremost label in the magazine exposed, means for positioning the package adjacent the magazine, means for effecting a relative approaching movement between the package and the magazine to affix the middle portion of the said foremost label to the adjacent wall of the package, rollers carried by said magazine normally engaging the end portions of the foremost label, said magazine having relatively movable end supports for the ends of the labels, means for rotating said rollers to disengage the end portions of the foremost label from the said end supports about the time the middle portion of the foremost label becomes affixed to the package, means for arresting the said end supports before the said approaching movement ceases whereby the relative movement of said magazine carries the said rollers along the side of the package.

19. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, means for positioning a package adjacent the magazine and for causing a relative movement of the magazine and package to affix a label to a wall of the package with a projecting portion of the label extending from the package, means for applying an adhesive to the said projecting portion of the label, and means for affixing the said projecting portion of the label to another wall of the package.

20. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, means for applying an adhesive to the wall of the package which is to receive the label, means for positioning the package adjacent the magazine, means for applying a label from the magazine to the said wall of the package with a projecting portion of the label extending from the package, means for applying an adhesive to the said projecting portion of the label, and means for affixing the said projecting portion of the label to another wall of the package.

21. In a machine for affixing stamps or labels to packages, in combination, a movable magazine for holding a plurality of labels, means for positioning a package adjacent said magazine, means for effecting a relative approaching movement between the magazine and the package to affix a label from the magazine on the adjacent wall of the package with the end portions of the label projecting from the package, rollers carried by the magazine engaging the label which is to be applied to the package, relatively movable end supports for the labels carried by the magazine, stops for arresting the said end supports during the relative approaching movement of the magazine and the package whereby said magazine and the rollers continue to advance after a portion of the label has been affixed to the adjacent wall of the package, and means for rotating the rollers to disengage the partially affixed label from the end supports and for forcing the end portions thereof along and against the side walls of the package.

22. In a machine for affixing stamps or labels to packages, in combination, a movable magazine for holding a plurality of labels, means for positioning a package adjacent said magazine, means for effecting a relative approaching movement between the magazine and the package to affix a label from the magazine on the adjacent wall of the package with the end portions of the label projecting from the package, rollers carried by the magazine engaging the label which is to be applied to the package, relatively movable end supports for the labels carried by the magazine, stops for arresting the said end supports during the relative approaching movement of the magazine and the package whereby said magazine and the rollers continue to advance after a portion of the label has been affixed to the adjacent wall of the package, means for rotating the rollers to disengage the partially affixed label from the end supports and for forcing the end portions thereof along and against the side walls of the package, and resilient means for holding the end supports in their normal position on the magazine.

23. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels with the foremost label exposed, means for effecting a relative movement between the package and the magazine to apply a portion of the label to the adjacent wall of the package, a roller carried by the magazine engaging the foremost label, and automatic mech-

anism for rotating said roller as the magazine and package approach each other, to disengage the end of the label and to force the same down along a side wall of the package and for affixing the same to the side wall of the package.

24. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, means for positioning the package adjacent the magazine, mechanism for separating a label from the other labels of the magazine and for applying a portion of the same to a wall of the package, means for applying an adhesive to the unattached portion of the label, and means for affixing the same thereafter to another wall of the package.

25. In a machine for affixing stamps or labels to packages, in combination, a movable magazine for holding a plurality of labels, with the foremost label exposed, means for feeding forward the packages and positioning the package adjacent said magazine, means for advancing the magazine to apply a portion of the foremost label to the adjacent wall of the package, separating means engaging a portion of the foremost label for disengaging the same from the magazine, movable members carried by the magazine for actuating said last means, relatively fixed means engaging said members to cause the same to actuate the said separating means when the magazine advances, and means operating thereafter for completing the application of the label to the package.

26. In a machine for affixing stamps or labels to packages, in combination, a movable magazine for holding a plurality of labels, with the foremost label exposed, means for feeding forward the packages and positioning the package adjacent said magazine, means for advancing the magazine to apply a portion of the foremost label to the adjacent wall of the package, separating means engaging a portion of the foremost label for disengaging the same from the magazine, movable members carried by the magazine for actuating said last means, relatively fixed means engaging said members to cause the same to actuate the said separating means when the magazine advances, means operating thereafter for completing the application of the label to the package, and automatic means actuated by the package for controlling the position of the relatively fixed means to prevent the actuation of the separating means if a package fails to feed into position.

27. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, with the foremost label exposed, means for positioning the package under said magazine, means for reciprocating said magazine to apply a portion of the foremost label to the adjacent wall of the package and then withdraw, means engaging the remaining portions of the label for disengaging the same from the magazine and for forcing the same toward the side walls of the package, and means for affixing said remaining portions to the side walls of the package.

28. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, with the foremost label exposed, means for positioning the package under the magazine, means for reciprocating the magazine to apply the middle portion of the foremost label to the adjacent wall of the package and then withdraw, rollers carried by said magazine for engaging the end portions of the foremost label, said magazine having end supports for the ends of said labels, automatic means for rotating said rollers to disengage the end portions of said foremost label from the end supports, and for forcing said end portions toward the side walls of the package, means operating thereafter to apply an adhesive to the end portions of the label, and means for affixing the said end portions of the label to the side walls of the package.

29. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, with the foremost label exposed, means for positioning the package under the magazine, means for reciprocating the magazine to apply the middle portion of the foremost label to the adjacent wall of the package and then withdraw, rollers carried by said magazine for engaging the end portions of the foremost label, said magazine having end supports for the ends of said labels, movable members carried by the magazine for rotating said rollers, relatively fixed means in the path of said movable members as they advance to effect a movement of said movable members relative to said magazine and thereby actuate said rollers.

30. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, with the foremost label exposed, means for positioning the package under the magazine, means for reciprocating the magazine to apply the middle portion of the foremost label to the adjacent wall of the package and then withdraw, rollers carried by said magazine for engaging the end portions of the foremost label, said magazine having end supports for the ends of said labels, movable members carried by the magazine for rotating said rollers, relatively fixed means near the path of said movable members as they advance toward the package with the magazine, means controlled by the package for moving said relatively fixed

means into the path of said movable members to effect a movement of said movable members relative to said magazine and thereby actuate said rollers to disengage the end portions of said foremost label from the end supports, and for forcing said end portions toward the side walls of the package, means operating thereafter to apply an adhesive to the end portions of the label, and means for affixing said end portions of the label to the side walls of the package.

31. In a machine for affixing stamps to the ends of packages, in combination, means for advancing the packages one by one along a feeding line, means for applying an adhesive to the end wall of each package as it advances, means for applying a label to the said end wall of the package with projecting portions of the label extending beyond the package, means for advancing the package thereafter in a direction substantially at right angles to the said feeding line, means for applying an adhesive to the projecting end portions of the label, and means for affixing said projecting end portions of the label to the side walls of the package.

32. In a machine for affixing stamps to the ends of packages, in combination, means for advancing the packages one by one along a feeding line, means for applying an adhesive to the end wall of each package as it advances, means for applying a label to the said end wall of the package with projecting portions of the label extending beyond the package, means for advancing the package thereafter in a direction substantially at right angles to the said feeding line, glue applying members adjacent to the path of said projecting portions, means for causing a relative movement between said adhesive applying members and said projecting portions to apply an adhesive to said projecting portions, and means operating thereafter for affixing said projecting portions of the label to the side walls of the package.

33. In a machine for affixing stamps to the ends of packages, in combination, means for advancing the packages one by one along a feeding line, means for applying an adhesive to the end wall of each package as it advances, means for applying a label to the said end wall of the package with projecting portions of the label extending beyond the package, means for advancing the package thereafter in a direction substantially at right angles to the said feeding line, glue applying rollers on each side of the path of the package and adjacent to which said projecting portions of the label pass, means for moving the projecting portions to wipe the same on said glue applying rollers and to extend the same along and against the sides of the package to affix thereto said projecting end portions of the label.

34. In a machine for affixing stamps to the ends of packages, in combination, means for advancing the packages one by one along a feeding line, means for applying an adhesive to the end wall of each package as it advances, means for applying a label to the said end wall of the package with projecting portions of the label extending beyond the package, means for advancing the package thereafter in a direction substantially at right angles to the said feeding line, glue applying rollers on each side of the path of the package and near the path of the projecting portions of the label, and members each movable between each roller and the adjacent wall of the package to wipe the projecting portions of the label on the surface of said rollers and to extend and press the same down and against the side walls of the package.

35. In a machine for affixing stamps to the ends of packages, in combination, means for advancing the packages one by one along a feeding line, means for applying an adhesive to the end wall of each package as it advances, means for applying a label to the said end wall of the package with projecting portions of the label extending beyond the package, means for advancing the package thereafter in a direction substantially at right angles to the said feeding line, glue applying rollers on each side of the path of the package and near the path of the projecting portions of the label, members each movable between each roller and the adjacent wall of the package to wipe the projecting portions of the label on the surface of said rollers and to extend and press the same down and against the side walls of the package, and means for again pressing the end portions of the label against the wall of the package.

36. In a machine for affixing stamps or labels to the ends of relatively thin and substantially flat packages, in combination, means for advancing the packages one by one in a plane substantially parallel with the flat side of the faces of the package, means for applying an adhesive to the end wall of each package as it advances, means for applying a label to the end wall of the package with projecting portions of the label extending beyond the package, means for advancing the package thereafter in a direction substantially at right angles to the plane of the flat sides of the package, means for applying an adhesive to the projecting end portions of the label, and means for affixing said projecting end portions of the label to the side walls of the package.

37. In a machine for affixing stamps or labels to packages, in combination, means for affixing the middle portion of the label to a wall of the package with the end portions of the label projecting beyond the

package, a pair of oppositely disposed glue applying rollers, means for positioning the package and the partially applied label between said rollers, with the end portions of said label extending adjacent to said rollers, and members movable respectively between the side walls of the package and said rollers for engaging said projecting end portions to wipe the same on the surfaces of said rollers to apply glue thereto and for extending said end portions along and against the side of the package.

38. In a machine for affixing labels to packages, in combination, means for affixing a portion of the label to a wall of the package, with a projecting portion of the label extending from the package, a glue applying roller, means for advancing the package and partially attached label so that the projecting portion of the label lies adjacent said glue applying roller, means for pressing the affixed portion of the label against the package, and a member movable between the package and the said roller to cause the projecting portion of the label to wipe the face of the roller and operating to extend the said projecting portion along and against the side wall of the package.

39. In a machine for affixing labels to packages, in combination, means for affixing a portion of the label to a wall of the package, with a projecting portion of the label extending from the package, a glue applying roller, means for advancing the package and partially attached label so that the projecting portion of the label lies adjacent said glue applying roller, means for pressing the affixed portion of the label against the package, a member movable between the package and the said roller to cause the projecting portion of the label to wipe the face of the roller and operating to extend the said projecting portion along and against the side wall of the package, and yielding means operating thereafter to press the label and insure a closer contact between the said projecting portion of the label and the side wall of the package.

40. In a machine for affixing stamps or labels to packages, in combination, means for advancing the package to be labeled, means for applying an adhesive to a wall of the package, means for applying a portion of the label to said wall with projecting portions of the label extending from the package, means for applying an adhesive to the projecting portions of the label and for extending them along the side walls of the package, and brushes for engaging said projecting portions to press the same against the sides of the package to affix the same thereto.

41. In a machine for affixing stamps or labels to packages, in combination, means for advancing the packages one by one, means for applying an adhesive to a wall of each package, means for applying a portion of the label to said wall with projecting portions of the label extending on each side from the package, means for applying an adhesive to the projecting portions of the label and for extending said projecting portions along the side walls of the package, means for forming a bank of the packages with the packages arranged side by side, and means for yieldingly repeatedly pressing the end portions of the labels on the packages in the bank.

42. In a machine for affixing stamps or labels to packages, in combination, means for advancing the packages one by one, means for applying an adhesive to a wall of each package, means for applying a portion of the label to said wall with projecting portions of the label extending on each side from the package, means for applying an adhesive to the projecting portions of the label and for extending said projecting portions along the side walls of the package, means for forming a bank of the packages with the packages arranged side by side, means for yieldingly repeatedly pressing the end portions of the labels on the packages in the bank, and means for continuously feeding the packages one by one into the bank.

43. In a machine for affixing stamps or labels to packages, in combination, means for advancing the packages one by one, means for applying an adhesive to a wall of each package, means for applying a portion of the label to said wall with projecting portions of the label extending on each side from the package, means for applying an adhesive to the projecting portions of the label and for extending said projecting portions along the side walls of the package, means for forming a bank of the packages with the packages arranged side by side, means for yieldingly repeatedly pressing the end portions of the labels on the packages in the bank, and means for feeding the packages one by one into said bank, said bank-forming means including means for yieldingly resisting the advance of the packages in the bank.

44. In a machine for affixing stamps or labels to packages, in combination, means for applying labels to packages one by one in succession, with the end portions of the labels projecting beyond the sides of the package, means for applying an adhesive to the projecting portions of the labels and for extending the projecting end portions of each label down and against the sides of each package, a receiver for thereafter collecting a plurality of the package arranged side by side in a bank, and wipers extending

along said receiver for repeatedly pressing the end portions of the labels of the packages in the bank.

45. In a machine for affixing stamps or labels to packages, in combination, means for applying labels to packages one by one in succession, with the end portions of the labels projecting beyond the sides of the package, means for applying an adhesive to the projecting portions of the labels and for extending the projecting end portions of each label down and against the sides of each package, a receiver for thereafter collecting a plurality of the packages arranged side by side in a bank, wipers extending along said receiver for repeatedly pressing the end portions of the labels of the packages in the bank, and means for feeding the packages one by one into the receiver.

46. In a machine for affixing stamps or labels to packages, in combination, means for applying labels to packages one by one in succession, with the end portions of the labels projecting beyond the sides of the package, means for applying an adhesive to the projecting portions of the labels and for extending the projecting end portions of each label down and against the sides of each package, a receiver for thereafter collecting a plurality of the packages arranged side by side in a bank, wipers extending along said receiver for repeatedly pressing the end portions of the labels of the packages in the bank, and means for feeding the packages one by one into the receiver, said receiver having means for yieldingly resisting the movement of the packages therethrough.

47. In a machine for affixing stamps or labels to packages, in combination, means for advancing one by one the packages to be labeled, means for applying an adhesive to a wall of each package, means for applying a portion of the label to said wall of each package with projecting end portions of the label extending from the package, a receiver for the packages, means for moving the packages one by one into said receiver, means for applying an adhesive to the projecting portions of the labels and for extending the projecting portions of the labels down the side walls of each package, and brushes extending longitudinally of said receiver for yieldingly pressing the ends of the labels against the sides of the packages in the receiver.

48. In a machine for affixing stamps or labels to relatively thin flat packages, in combination, means for advancing one by one the packages in a direction substantially parallel with the flat sides of the package, means for applying an adhesive to a wall of each package, means for applying a portion of the label to said wall of each package with projecting end portions of the label extending from the package, a receiver for the packages, means for moving the packages one by one into said receiver, arranged side by side with their flat sides touching, means for applying an adhesive to the projecting portions of the labels and for extending the projecting portions of the labels down the side walls of each package as the packages move toward said receiver, and wipers extending longitudinally of said receiver for yieldingly pressing the ends of the labels against the sides of the packages in the receiver.

49. In a machine for affixing stamps or labels to the ends of packages having elongated end walls, in combination, means for advancing the packages one by one in a direction lengthwise of the end wall, means for applying an adhesive to the end wall of the package, means for applying a portion of the label to the said end wall of each package with projecting end portions of the label extending from the package, a receiver for the packages, means for moving the packages one by one into said receiver in a direction at right angles to the longitudinal axis of the end wall of the package to form a bank of the packages with the longitudinal axes of the end walls of the packages substantially parallel, means for applying an adhesive to the projecting portions of the labels and for extending the same down the side walls of each package as the packages move toward said receiver, and wipers extending longitudinally of said receiver for yieldingly pressing the ends of the labels against the sides of the packages in the receiver.

50. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, with the foremost label exposed, means for positioning the package under the magazine, means for reciprocating the magazine to apply the middle portion of the foremost label to the adjacent wall of the package and then withdraw, rollers carried by said magazine for engaging the end portions of the foremost label, said magazine having end supports for the ends of said labels, levers pivotally mounted on the magazine and connected with said rollers to rotate the same, relatively fixed pins in the path of said levers as they advance with the magazine, operating to actuate said rollers to disengage the end portions of said foremost label from the end supports to force said end portions toward the side walls of the package, means operating thereafter to apply an adhesive to the end portions of the label, and means for affixing the said end portions of the label to the side walls of the package.

51. In a machine for affixing stamps or labels to packages, in combination, a magazine

for holding a plurality of labels, with the foremost label exposed, means for positioning the package under the magazine, means for reciprocating the magazine to apply the middle portion of the foremost label to the adjacent wall of the package and then withdraw, rollers carried by said magazine for engaging the end portions of the foremost label, said magazine having end supports for the ends of said labels, levers pivotally mounted on the magazine and connected with said rollers to rotate the same, relatively fixed pins in the path of said levers as they advance with the magazine, operating to actuate said rollers to disengage the end portions of said foremost label from the end supports to force said end portions toward the side walls of the package, means operating thereafter to apply an adhesive to the end portions of the label, means for affixing the said end portions of the label to the side walls of the package, and a block carrying said pins movably mounted adjacent the magazine in a position to be moved laterally by the package when in position to receive the label, and thereby move the pins into coöperative relation with said levers.

52. In a machine for affixing stamps or labels to packages, in combination, a magazine for holding a plurality of labels, with the foremost label exposed, means for positioning the package under the magazine, means for reciprocating the magazine to apply the middle portion of the foremost label to the adjacent wall of the package and then withdraw, rollers carried by said magazine for engaging the end portions of the foremost label, said magazine having end supports for the ends of said labels, levers pivotally mounted on the magazine and connected with said rollers to rotate the same, relatively fixed pins in the path of said levers as they advance with the magazine, operating to actuate said rollers to disengage the end portions of said foremost label from the end supports to force said end portions toward the side walls of the package, means operating thereafter to apply an adhesive to the end portions of the label, means for affixing the said end portions of the label to the side walls of the package, a block carrying said pins movably mounted adjacent the magazine in a position to be moved laterally by the package when in position to receive the label, and thereby move the pins into coöperative relation with said levers, and means for normally holding said block in a position to hold said pins out of the path of the levers and thereby prevent the actuation of said rollers unless a package is in position to receive a label.

53. In a machine for affixing stamps or labels to packages, in combination, label affixing mechanism for affixing the middle portion of the label to a wall of the package with the projecting end portions of the label extending from the package, a receiver for the packages, means for taking the packages in succession from said label affixing mechanism and for advancing and partially rotating each package, a receiver for holding a plurality of packages, means for advancing the packages into the receiver, means for applying an adhesive to the projecting end portion of each label, means for extending the said projecting portion of the labels along the sides of the packages, and means disposed along each side of the receiver for repeatedly pressing the said projecting ends against the sides of the packages.

54. In a machine for affixing stamps or labels to the ends of relatively thin flat packages, having elongated end walls, in combination, means for advancing the packages one by one in a direction extending lengthwise of the longitudinal axis of the elongated end wall of the package, means for applying an adhesive to the said end wall as the package advances, means for applying the middle portion of a label to the said end wall of the package with projecting end portions of the label extending from the package, a receiver to hold a plurality of the packages with the flat sides of the packages together, means for advancing the packages one by one into position before the receiver, means for advancing the packages one by one into the receiver, means near the path of movement of the package in moving into the receiver for applying an adhesive to the said projecting end portions of the label and for extending the end portions of the labels along and against the sides of each package, and means adjacent the receiver for repeatedly pressing the end portions of the labels against the packages.

55. In a machine for affixing stamps or labels to the ends of packages, in combination, label affixing mechanism, means for advancing packages along a feeding line past said mechanism, means for actuating said label affixing mechanism to affix a portion of a label to the package, and leaving a portion of the label unattached, means for advancing the packages from said label affixing mechanism along a second feeding line, means intermediate the said feed lines for partially rotating the packages before they enter the second feed line, and means on said second feeding line for completing the affixing of the label to the package.

56. In a machine for affixing stamps or labels to packages, in combination, label affixing mechanism, means for advancing the packages in a feeding line past the same, means for actuating said mechanism to partially affix a label to the package, means for advancing the packages from said mecha-

nism and partially rotating the packages, means for taking the packages from said last means and for advancing the packages along a second feeding line, and means for completing the affixing of the label to the package while moving along said second feeding line.

57. In a machine for affixing stamps or labels to the ends of packages, in combination, means for advancing the packages along a feeding line coinciding with one of the axes of the end wall of the package, label affixing mechanism near the path of the package for partially affixing a label to the end of the package, means for advancing the package along a second feeding line substantially coinciding with another axis of said end wall, a curved trackway for directing the packages from one feed line to the other and for partially rotating the packages axially during transfer from one feed line to the other, and means adjacent said second feeding line for completing the affixing of the label to the package.

58. In a machine for affixing stamps or labels to packages, in combination, label affixing mechanism, means for advancing the packages past the same, means for actuating said label affixing mechanism to partially affix a label to the package, means for advancing the packages along a second feeding line, label affixing mechanism adjacent said second feeding line for completing the affixing of the label to the package, and a member mounted to swing to and fro about an axis for advancing the packages from said first label affixing mechanism to said last named label affixing mechanism.

59. In a machine for affixing stamps or labels to the ends of packages each having a bead near the end of which the label is attached, comprising, in combination, means for affixing a portion of the label to the end wall of the package with a projecting portion of the label extending from the package, a member for engaging the said projecting portion, and means for moving and guiding the same past said bead and then inwardly and against the wall of the package beyond the bead to extend the said projecting end portion along the side wall of the package.

60. In a machine for affixing stamps or labels to the ends of packages each having a bead near the end to which the label is attached, comprising, in combination, means for affixing a portion of the label to the end wall of the package with a projecting portion of the label extending from the package, a member for engaging the said projecting portion, means for moving and guiding the same past said bead and then inwardly and against the wall of the package beyond the bead to extend the said projecting end portion along the side wall of the package, and means operating thereafter to affix the projecting end portion of the label against the side wall of the package.

61. In a machine for affixing stamps or labels to the ends of packages, each having a bead near its end, comprising, in combination, means for affixing the middle portion of the label to the end wall of the package, with the end portions of the label projecting beyond the package, means for applying an adhesive to the said projecting end portions, movable fingers to engage said projecting end portions, and means for moving said fingers past said bead and then inwardly to press the said end portions against the side walls of the package.

62. In a machine for affixing stamps or labels to the ends of packages, each having a bead near its end, comprising, in combination, means for affixing the middle portion of the label to the end wall of the package, with the end portions of the label projecting beyond the package, means for applying an adhesive to the said projecting end portions, movable fingers to engage said projecting end portions, means for moving said fingers past said bead and then inwardly to press the said end portions against the side walls of the package, and means for withdrawing said fingers.

63. In a machine for affixing stamps or labels to the ends of packages, each having a bead near its end, comprising, in combination, means for affixing the middle portion of the label to the end wall of the package, with the end portions of the label projecting beyond the package, means for applying an adhesive to the said projecting end portions, movable fingers to engage said projecting end portions, means for moving said fingers past said bead and then inwardly to press the said end portions against the side walls of the package, means for withdrawing said fingers, and means for holding said fingers clear of the bead while being withdrawn.

64. In a machine for affixing stamps or labels to the ends of packages, in combination, means for affixing the middle portion of a label to the end wall of the package with the end portions of the label projecting beyond the package, a reciprocating crosshead movable toward and from the package, means controlled by the crosshead for pressing the affixed portion of the label on the package, means for applying an adhesive to the end portions of the label, and means actuated by the crosshead for extending the end portions of the label along the side walls of the package.

65. In a machine for affixing stamps or labels to the ends of packages, in combination, means for affixing the middle portion

of the label to the end wall of the package with the end portions of the label projecting beyond the package, a reciprocating crosshead movable toward and from the package, means controlled by the crosshead for pressing the affixed portion of the label on the package, means for applying an adhesive to the end portions of the label, means actuated by the crosshead for extending the end portions of the label along the side walls of the package, and means operating thereafter to press the said end portions against the sides of the package.

66. In a machine for affixing stamps or labels to the ends of packages each having a bead near its end, comprising, in combination, means for affixing the middle portion of the label to the end of the package with the end portions of the label projecting beyond the package, a reciprocating crosshead movable toward and from the package, a presser head controlled by the said crosshead for pressing the affixed portion of the label on the package, means for applying an adhesive to the end portions of the label, members carried by the crosshead for extending the end portions of the label along the side walls of the package, and means carried by said presser head for controlling the position of said members to guide the same past said bead.

67. In a machine for affixing stamps or labels to the ends of packages each having a bead near its end, comprising, in combination, means for affixing the middle portion of the label to the end of the package with the end portions of the label projecting beyond the package, a reciprocating crosshead movable toward and from the package, a presser head controlled by the said crosshead for pressing the affixed portion of the label on the package, means for applying an adhesive to the end portions of the label, members carried by the crosshead for extending the end portions of the label along the side walls of the package, means carried by said presser head for controlling the position of said members to guide the same past said bead, and means operating thereafter to press said end portions against the side walls of the package.

68. In a machine for affixing stamps or labels to the ends of packages, in combination, means for affixing a portion of the label to the end wall of the package with an unattached portion of the label projecting beyond the package, means operating thereafter to press the affixed portion of the label against the end of the package and for applying an adhesive to the unattached portion and extending the same along the side wall of the package, and means for yieldingly pressing the last attached portion of the label against the side wall of the package.

69. In a machine for affixing stamps or labels to the ends of packages, in combination, means for affixing the middle portion of the label to the end wall of the package with the end portions of the label projecting beyond the package, means for repeatedly pressing the attached portion of the label on the end wall, and means for extending the unattached portions of the label along the sides of the package and affixing the same thereto.

70. In a stamping machine and in combination, means for feeding packages in an upright position and in spaced relation with a selected face foremost along a substantially horizontal feeding line, means operative when the packages are on said feeding line for applying a label to the top wall of each package with an end portion of the label projecting from said wall, means for partially turning the packages during travel thereof to present a different face foremost, means operative after the packages have been turned for folding the projecting end of the label downward along another wall of the package, means for assembling a plurality of the packages with their side walls in substantial contiguous relation, and wipers having wiping faces constructed to act upon a plurality of the assembled packages simultaneously to affix the folded down ends of the labels against the end walls of the packages.

71. In a stamping machine and in combination, mechanism for applying stamps to the top walls of packages with the ends of the stamps extending along opposite side walls of each package, means for supporting a plurality of the stamped packages in contiguous relation with the stamp containing walls exposed and in alinement, means for successively feeding the packages from the stamp applying mechanism to the said supporting means and a movable wiper having a continuous wiping face extending parallel with the said supporting means and of sufficient length to act upon the alined stamp-containing walls of a plurality of receptacles simultaneously.

72. In a stamping machine and in combination, mechanism for applying stamps to packages with portions of each stamp extending along adjacent walls of the package, means for collecting and supporting a plurality of the stamped packages in contiguous relation with the stamp containing walls exposed and in alinement, a movable wiper having a continuous wiping face of sufficient length to act simultaneously upon the alined walls of a plurality of the contiguously arranged stamped packages, and means for actuating the said wiper to cause its wiping face to move in a downward direction in contact with the alined and stamped walls of the

packages, said wiping face also having a movement in an upward direction out of contact with said stamped walls.

73. In a stamping machine and in combination, means for feeding packages in an upright position and in spaced relation along a substantially horizontal feeding line, means for applying a label to the top wall of each package with an end portion of the label projecting from said wall, means for folding the projecting end of the label downward along another wall of the package, an open ended trough or runway, means for successively feeding the stamped packages into one end of the trough or runway and for discharging them from the other end thereof, and rotary wipers arranged along opposite sides of the trough or runway, said wipers being of sufficient length to operate upon a plurality of the stamped packages simultaneously.

74. In a stamping machine and in combination, means for feeding oblong packages in an upright position and in spaced relation edgewise along a substantially horizontal feeding line, means for applying an adhesive coating to the top wall of the packages as they are fed forward, means for applying an ungummed stamp to said adhesively coated wall of each package with the ends of the stamp projecting from said top wall, means for folding the projecting ends of the stamp downward against opposite end walls of the package, an open trough or runway for receiving in assembled relation a plurality of the stamped packages with their stamped ends exposed and in alinement, means for successively feeding the stamped packages into one end of the said trough or runway and out of the other end thereof, and rotary wipers arranged along the opposite sides of the trough or runway for operating simultaneously upon a plurality of the packages therein to wipe the ends of the stamp against the end walls of the packages.

75. In a machine of the class described, the combination of means for successively advancing oblong packages edgewise and in an upright position along a substantially horizontal feeding line, means for applying a stamp longitudinally across the narrow top of each package with the ends of the stamp arranged to engage the narrow sides of the package, an open trough or runway into which the stamped packages are received and assembled in substantially contiguous relation with the narrow stamped ends thereof exposed and in alinement and revoluble brushes having opposed peripheries arranged at opposite sides of the said trough or runway, said brushes being of sufficient length to operate upon a plurality of the packages simultaneously.

76. In a stamping machine and in combination, means for feeding packages in an upright position and in spaced relation along a substantially horizontal feeding line, means for applying a label to the top wall of each package with the end portions of the label projecting from said wall, means for folding the projecting ends of the label downward along the opposite end walls of the package, a trough or runway in which the stamped packages are assembled in contiguous relation with their stamped end walls in alinement and rotary brushes arranged on opposite sides of the trough or runway for wiping the ends of the stamps against the opposite end walls of the packages, said rotary brushes being of sufficient length to operate upon a plurality of the stamped packages simultaneously.

77. In a stamping machine and in combination, means for feeding oblong cans in an upright position edgewise and in spaced relation along a substantially horizontal feeding line, means for applying labels to the elongated top wall of each can as it is fed forward with the ends of the stamp projecting from opposite ends of said top walls, means for folding the projecting ends of the stamp down along the narrow end walls of the can, a receiving trough or runway in which the stamped cans are assembled in contiguous relation with the stamped walls exposed and a rotary brush arranged and extending along each side of the said trough or runway, for brushing the ends of the stamps against the narrow end walls of the cans, each brush being of sufficient length to operate upon a plurality of the cans simultaneously and successively.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HANS F. RICHTER.

Witnesses:
R. C. HABERKERN,
G. H. FRANSEN.