

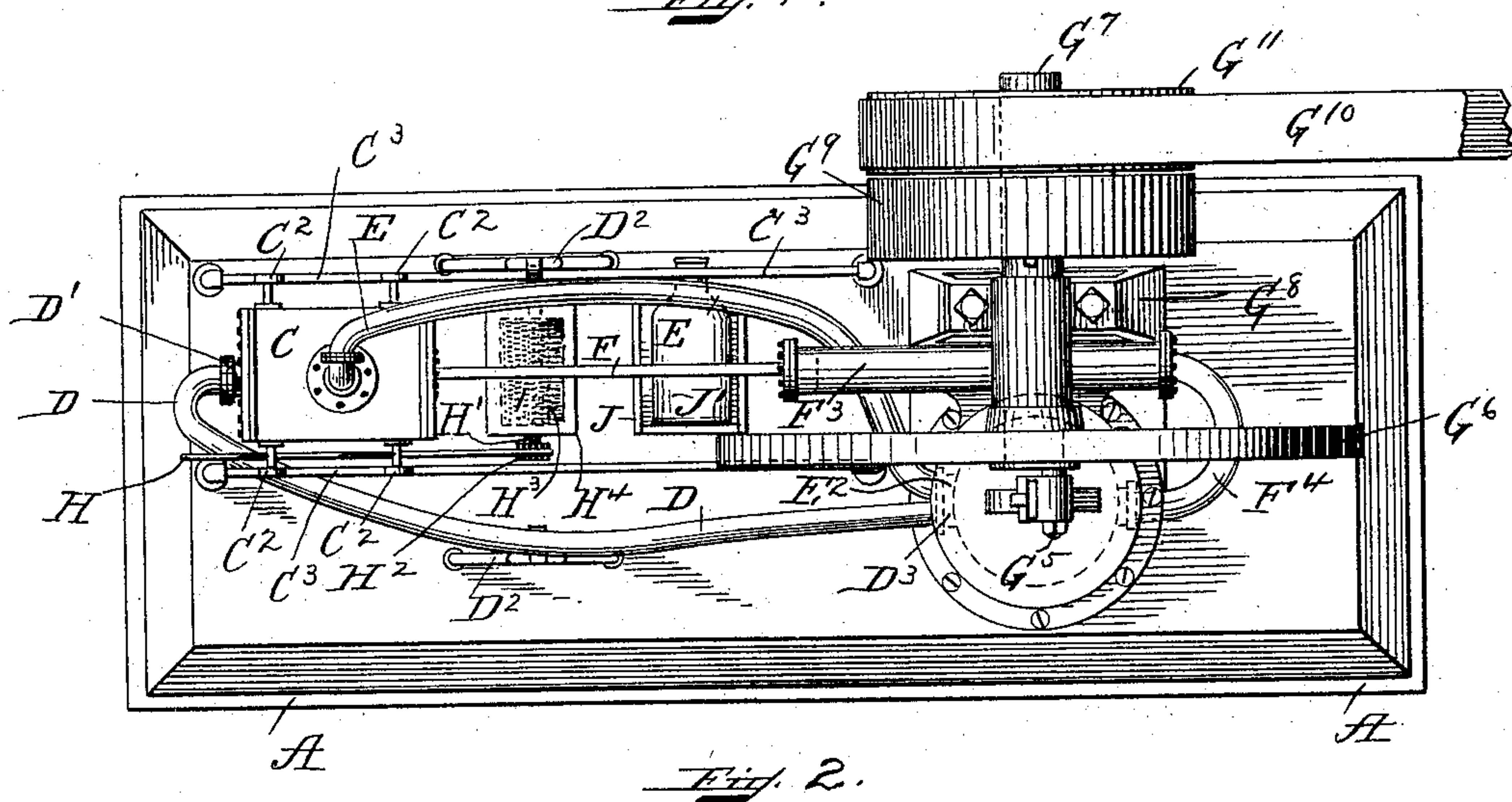
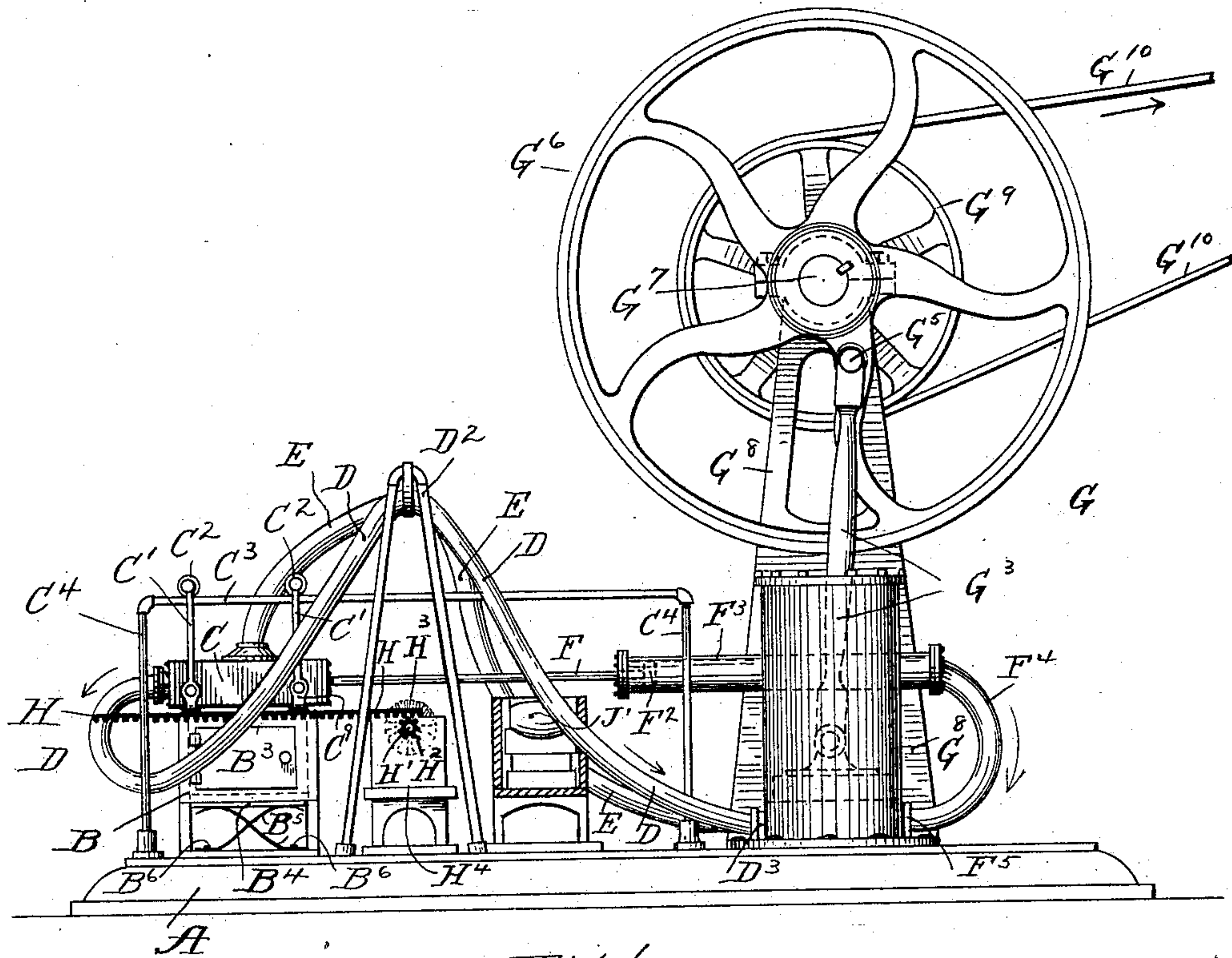
(No Model.)

2 Sheets—Sheet 1.

C. F. TEBBETTS.
PNEUMATIC LABELING MACHINE.

No. 603,669.

Patented May 10, 1898.



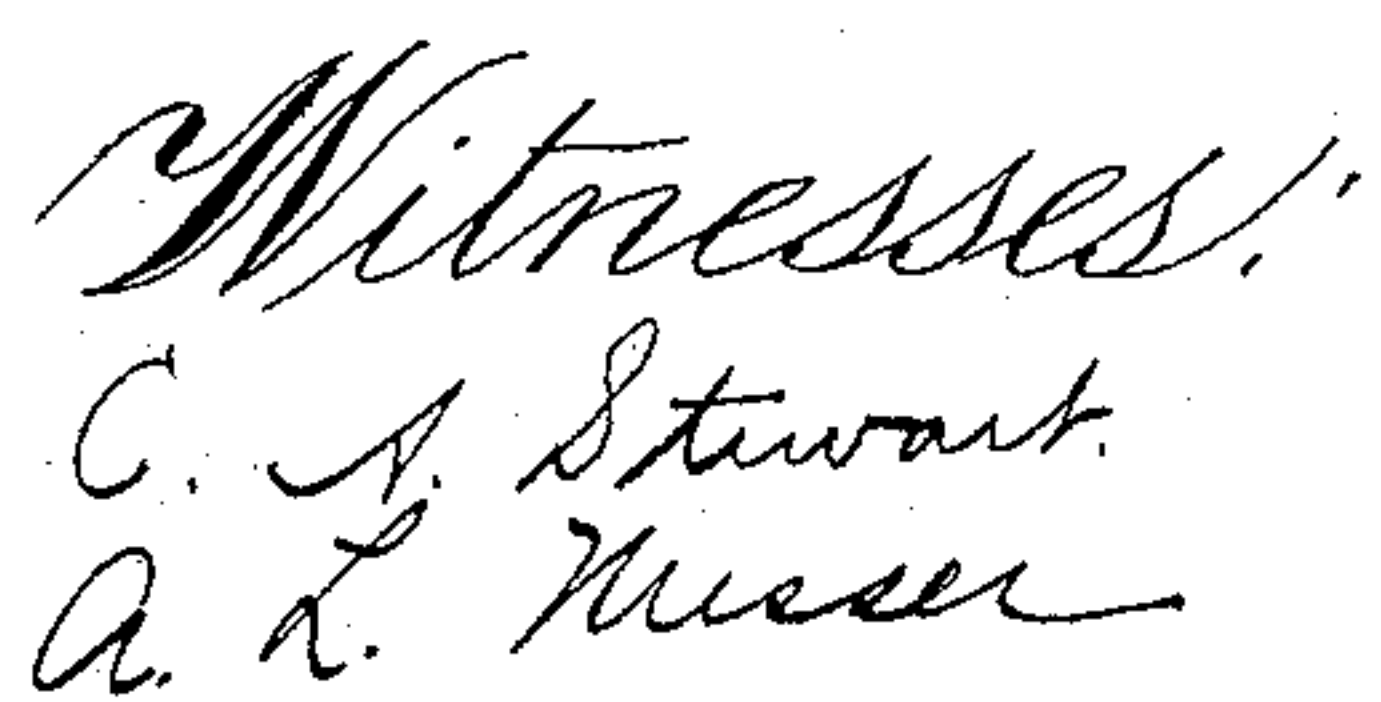
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By J. S. Rusk
Atty

2 Sheets—Sheet 2.

No. 603,669.

Patented May 10, 1898.



Inventor:
Charles F. Tebbetts
By J. S. Rusk
Atty

UNITED STATES PATENT OFFICE.

CHARLES F. TEBBETTS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE
TEBBETTS LABELLING MACHINE COMPANY, OF WEST VIRGINIA.

PNEUMATIC LABELING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 603,669, dated May 10, 1898.

Application filed April 23, 1897. Serial No. 633,527. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. TEBBETTS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Pneumatic Labeling-Machines, of which the following is a specification.

My invention relates to new and useful improvements in machines for applying labels to bottles and other articles; and its object is to apply said labels to said articles by means of air from a suitable air-pump.

My invention consists of certain novel features hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, which illustrate a construction embodying my invention, Figure 1 is a side elevation of my improved labeling apparatus, showing the parts in the normal positions. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal sectional view through the apparatus with parts in full lines and showing the apparatus in position to apply a label to a bottle or other article. Fig. 4 is an enlarged detail sectional view of the label box and carrier for carrying the label from the label-box to the article to which it is to be applied. Fig. 5 is an enlarged detail sectional view of the labeling-box and showing the label-carrier with the label over the bottle to which the label is to be applied. Fig. 6 is a perspective view of the label-carrier, showing the bottom plate with the perforations in a circular form. Fig. 7 is a view in elevation of another bottom plate of the label-carrier with the perforations arranged in a rectangular form. Fig. 8 is a view in elevation of another bottom plate of the label-carrier with the perforations arranged in an oblong form.

Like letters of reference refer to like parts throughout the several views.

A represents a base-plate of suitable dimensions, and located on one end of the same is a label-box B, in which are packed a number of labels B', and having an opening B² at the top and having its side closed by a suitable door B³. The said labels B' are placed upon the movable bottom B⁴ in said box, which is pressed upwardly by springs B⁵, secured to the bottom of the box at B⁶ and for

the purpose of holding said labels in the upper part of the box. With said label-box B there is adapted to cooperate the label-carrier C, having suitable standards C', in the top of which are journaled wheels C², adapted to run upon rods C³, which are supported at the ends by vertical standards C⁴. This label-carrier has a hollow chamber C⁵, and its bottom plate C⁶ is secured in place by suitable screws C⁷. In said bottom plate there are provided perforations C⁸, for a purpose hereinafter described.

Connected to one end of the label-carrier C at D' is a flexible tubing D, which extends upwardly and is supported in suitable standards D² and then extends and opens into the piston-chamber G² of the pump G at the point D³. Also communicating with the chamber C⁵ of the label-carrier C at the point E' is another flexible tubing E, which extends upwardly and is supported in said standards D² and then extends to and communicates with the piston-chamber G² at the point E² alongside of the tube D, hereinbefore mentioned.

Firmly secured at F' to one end of the label-carrier C is a piston-rod F, to which at its other end is secured the piston F², adapted to reciprocate in the piston-chamber F³, suitably supported on the side of the piston-chamber G². Communicating with the piston-chamber F³ at the end opposite the label-carrier C is a flexible tube F⁴, which opens into the piston-chamber G² at the point F⁵.

Supported on the lower ends C⁹ of the standard C' is a rack H, adapted to mesh in the travel of said label-carrier C with the gears H², fixed fast on the shaft H', to which is secured the brush H³, which in its revolutions is adapted to be soaked with mucilage located in the mucilage-box H⁴, in which is journaled the shaft H', so that said brush is kept always coated with mucilage in the travel of the label-carrier C. Off to the side of said mucilage-box H⁴ there is located an open labeling-box J, and in said box J the bottle J' or other article is adapted to receive the label, which is taken from the label-box B and carried by the label-carrier to the labeling-box J. In this box J there are arranged several blocks J², the top one of which is provided with a suitable recess J³ to fit and retain in position

the article to receive the label. The number of blocks used depends upon the size of the article to be labeled.

With the mechanism thus far described there is adapted to cooperate the air-pump G, which consists of the piston-chamber G², in which there is adapted to reciprocate the plunger G', to which there is pivotally connected at G⁴ a connecting-rod G³, which is also pivotally connected at G⁵ to the wheel G⁶, keyed fast to the shaft G⁷. To one side of said wheel G⁶ there is located a driving-pulley G⁹, also fixed fast on said shaft G⁷. Alongside of said pulley G⁹ is a loose pulley G¹¹, which when the apparatus is not in operation receives the belt G¹⁰, and no power is communicated to the apparatus, but when it is desired to operate the apparatus the belt G¹⁰ is shifted onto the pulley G⁹, whereby the apparatus is set in operation by the power communicated.

The operation of the apparatus is as follows: With the parts in their normal positions, as shown in Fig. 1, with the label-carrier C over the label-box B, the plunger G' is about to commence its upper stroke, and in said upward movement it draws the air into the piston-chamber G² from the flexible tube D and from the flexible tube F⁴, and the result is that the suction of the air through the tube D causes a vacuum in the chamber C⁵ of the label-carrier C, and the air being exhausted from the chamber C⁵ causes a draft through the perforations C⁸ in the bottom plate C⁶ of said carrier and draws up the end of the top label in the box B through the opening B² and holds said label fast to the bottom of said plate C⁶ over the perforations C⁸. (See Fig. 4.) The pull on the pump in the upper stroke of the plunger G' also sucks the air from the piston-chamber F³ through the flexible tube F⁴ and pulls the piston-head F² from one end of said piston-chamber F³, as shown in dotted lines, Fig. 1, to the opposite end of said chamber, as shown in Fig. 3. In said upward movement the label-carrier, with the top label, is drawn from the label-box B to and over the article to be marked in the labeling-box J, (see Fig. 5,) with the label held fast to the under side of the carrier by reason of the vacuum produced. The apparatus is so timed that when the label-carrier, with the label, is over the bottle or other article to be marked the piston F² is at the far end of the piston-chamber F³ and the plunger G' is about to begin its downward movement. Now as said downward movement of the plunger G' begins the vacuum heretofore produced in the tubes D and F⁴ ceases, and the air passes into the chamber G² when the plunger G' is at the upper limit of its stroke, is forced from the piston-chamber G² by the downward thrust of the plunger G' through the tubes D and E, and blows the label held to the bottom of the carrier C by the vacuum produced onto the bottle or other article to be marked, and in the same downward move-

ment of the plunger G' air from the piston-chamber G² passes through the tube F⁴ and acts against the piston-head F² and drives the label-carrier C from its position over the labeling-box J to its original position over the label-box B in position to receive another label, and the operation is continued, as hereinbefore described, in the application of labels to various articles.

It will be noticed that there is a valve E⁴, pivoted within the hollow chamber C⁵ of the label-carrier C alongside of the opening E', where the tube E opens into said chamber C⁵. Now when the vacuum is produced by the upward stroke of the plunger G' this valve, by the suction created through the tube E, is closed, and thus prevents any action on the label-carrier C on account of the tube E being closed; but when the air is forced from the piston-chamber G² the valve opens and the air-pressure through said tube E assists the pressure through the tube D and causes the application of the label to the bottle or other article. It is deemed advisable to close the tube E by the valve E⁴ in order that the label may not be pulled up too closely to the bottom plate C⁶ into the perforations C⁸, and thereby wrinkle the label; but when it comes to the application of the label the large pressure is required to blow the label onto the bottle or other article, so that I have more pressure to apply the label than is required to carry the label from the label-box to the labeling-box.

The air is taken into the chamber G² of the pump G through the inlet a when the plunger G' has reached the upper limit of its stroke, and owing to the rapidity with which atmospheric air rushes into a vacuum a large amount of air passes into said chamber G², and this admitted air is compressed by the downward stroke of the piston and, passing through the tubes D and E, blows the label freely from the label-carrier onto the article to be labeled and, passing from the tube F⁴, drives the label-carrier back to its normal position over the label-box B.

When the label-carrier C begins its travel from its position over the label-box B and moves toward the labeling-box J, the rack H, carried by said label-carrier C, operates the brush H³ by means of the rack H and pinion H', and the label B', which has been lifted from the label-box B, as shown in Fig. 4, and held to the bottom of the label-carrier, passes over the brush H³ and is coated with mucilage on its under side, as the labels are all arranged in the box B face upward, so that when the label is blown onto the bottle or other article in the labeling-box J it adheres to said article with the face of the label exposed to view.

As labels are made in various shapes, the label-carrier C is adapted to be provided with bottom plates C⁶, having their perforations C⁸ arranged in various forms to suit differently-shaped labels, so that the vacuum pro-

duced is just the shape of the label, and the perforations are covered by said label. Otherwise if the label did not cover the perforations the effect of the vacuum would be lost, owing to all of the perforations not being closed by the label.

I do not limit myself to the arrangement and construction shown, as the same may vary without departing from the spirit of my invention.

Having thus ascertained the nature of my invention and set forth a construction embodying the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for moving the label-carrier from the label-box to the article to be labeled, a device located in the line of travel of the label-carrier for applying adhesive material to the label as the under side of said label passes over and in contact with said device on the travel of said label from the label-box to the article to be labeled, and means for producing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled.

2. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to move the label-carrier from the label-box to the article to be labeled, a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label in its travel from the label-box to the article to be labeled, and means for producing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled.

3. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to move the label-carrier from the label-box to the article to be labeled, a device located in the line of travel of said label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, means for producing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled, and means for returning the label-carrier to the label-box.

4. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, and means for producing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled.

5. In an apparatus for labeling articles, a

label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, means for producing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled, and means for returning the label-carrier to the label-box.

6. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from said label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, and means for producing an air-pressure to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

7. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, a device located in the line of travel of said label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, and means for producing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled.

8. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move said label-carrier with the label to the article to be labeled, a device located in the line of travel of said label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, and means for producing an air-pressure to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

9. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, a brush located in a box in the line of travel of said label-carrier and containing adhesive material and adapted to be rotated by the movement of the label-carrier to apply adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, and means for producing an air-pressure to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

10. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled and provided
 5 with a bottom plate having a group of perforations corresponding in shape to the label to be transferred, means for producing a vacuum in the label-carrier to lift a label from
 10 said label-box and to hold it over said perforations during its travel to the article to be labeled, means for moving said label-carrier from said label-box to the article to be labeled, a device located in the line of travel of the
 15 label-carrier for applying adhesive material to the label as the under side of said label passes over and in contact with said device on the travel of said label from the label-box to the article to be labeled, means for pro-
 20 ducing an air-pressure in said label-carrier to apply the transferred label to the article to be labeled, and means for returning said label-carrier to said label-box.

11. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-
 25 box to the article to be labeled and having a perforated bottom, means for producing a vacuum to lift a label from said label-box and to hold it over said perforations and to move
 30 the label-carrier with the label to the article to be labeled, and means for producing an air-pressure to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

12. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-
 35 box to the article to be labeled and having a perforated bottom, means for producing a vacuum to lift a label from said label-box and
 40 to hold it over said perforations and to move the label-carrier with the label to the article to be labeled, a device located in the line of travel of said label-carrier for applying ad-
 45 hesive material to the underside of the label on its travel from the label-box to the article to be labeled, and means for producing an air-pressure to apply the transferred label to the article to be labeled and to return said
 50 label-carrier to said label-box.

13. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-
 55 box to the article to be labeled and provided with a removable bottom plate having a group of perforations corresponding in shape to the label to be transferred, means for producing a vacuum to lift a label from said label-box and
 60 to hold it over said perforations and to move said label-carrier with the label to the article to be labeled, and means for producing an air-pressure to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

14. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-

box to the article to be labeled, a support for the carrier in its travel, and an air-pump adapted to produce, during its forward stroke, 70
 a vacuum to lift a label from said label-box to the label-carrier and to move said label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure to apply the trans- 75
 ferred label to the article to be labeled and to return said label-carrier to said label-box.

15. In an apparatus for labeling articles, a label-box for holding the labels, a receptacle for holding the articles to be labeled, a label- 80
 carrier for transferring a label from the label-box to the article to be labeled in said recep-
 tacle, a support for the carrier in its travel, and an air-pump adapted to produce, during
 its forward stroke a vacuum to lift a label 85
 from said label-box to the label-carrier and to move said label-carrier with the label from the label-box to the article to be labeled in
 said receptacle, and adapted during its re-
 turn stroke to produce an air-pressure upon 90
 its arrival over the article to be labeled in said receptacle to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

16. In an apparatus for labeling articles, a 95
 label-box for holding the labels having an opening smaller than the size of the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means
 for producing a vacuum to lift a label from 100
 the label-box through said opening to the label-carrier and to move the label-carrier with the label to the article to be labeled, and
 means for producing an air-pressure in said label-carrier to apply the transferred label to 105
 the article to be labeled.

17. In an apparatus for labeling articles, a label-box for holding the labels having an opening smaller than the size of the labels, a label-carrier for transferring a label from the 110
 label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box through said opening to the la-
 bel-carrier and to move the label-carrier with the label to the article to be labeled, and 115
 means for producing an air-pressure to apply the transferred label to the article to be labeled and to return the label-carrier to the label-box.

18. In an apparatus for labeling articles, a 120
 label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, and an air-
 pump having its piston-rod connected directly to a driving-wheel and adapted to produce 125
 during its forward stroke a vacuum to lift a label from said label-box to the label-carrier and to move said label-carrier with the label to the article to be labeled, and adapted dur-
 ing its return stroke to produce an air-pres- 130
 sure to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

19. In an apparatus for labeling articles, a

label-box for holding the labels, a hollow label-carrier for transferring a label from the label-box to the article to be labeled, a support for the carrier in its travel, an air-pump, a conduit connecting said label-carrier with said pump, a piston-chamber, a piston adapted to reciprocate in said chamber and having its piston-rod connected to the label-carrier, a conduit connecting said piston-chamber with said air-pump, and a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, said air-pump being adapted during its forward stroke to produce a vacuum in the label-carrier to lift a label from the label-box to the label-carrier and to produce a vacuum in said piston-chamber to move the label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure in the label-carrier to apply the transferred label to the article to be labeled and to produce an air-pressure in said piston-chamber to return said label-carrier to said label-box.

20. In an apparatus for labeling articles, a label-box for holding the labels, a hollow label-carrier for transferring a label from the label-box to the article to be labeled, a support for the carrier in its travel, an air-pump having its piston-rod connected to a driving-wheel, a conduit connecting said label-carrier with said pump, a piston-chamber, a piston adapted to reciprocate in said chamber and having its piston-rod connected to the label-carrier, a conduit connecting said piston-chamber with said air-pump, and a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, said air-pump being adapted during its forward stroke to produce a vacuum in the label-carrier to lift a label from the label-box to the label-carrier and to produce a vacuum in said piston-chamber to move the label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure in the label-carrier to apply the transferred label to the article to be labeled and to produce an air-pressure in said piston-chamber to return said label-carrier to said label-box.

21. In an apparatus for labeling articles, a label-box for holding the labels, a hollow label-carrier for transferring a label from the label-box to the article to be labeled, a support for the carrier in its travel, an air-pump having its piston-rod connected directly to a driving-wheel, a conduit connecting said label-carrier with said pump, a piston-chamber, a piston adapted to reciprocate in said chamber and having its piston-rod connected to the label-carrier, a conduit connecting said piston-chamber with said air-pump, means for moving the labels in the label-box upwardly toward the top of said label-box, and a device located in the line of travel of the

label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, said air-pump being adapted during its forward stroke to produce a vacuum in the label-carrier to lift a label from the label-box to the label-carrier and to produce a vacuum in said piston-chamber to move the label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure in the label-carrier to apply the transferred label to the article to be labeled and to produce an air-pressure in said piston-chamber to return said label-carrier to said label-box.

22. In an apparatus for labeling articles, a label-box for holding the labels, a hollow label-carrier for transferring a label from the label-box to the article to be labeled and having a perforated bottom, a support for the carrier in its travel, an air-pump having its piston-rod connected directly to a driving-wheel, a conduit connecting said label-carrier with said pump, a piston-chamber, a piston adapted to reciprocate in said chamber and having its piston-rod connected to the label-carrier, a conduit connecting said piston-chamber with said air-pump, means for moving the labels in the label-box upwardly toward the top of said box, and a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, said air-pump being adapted during its forward stroke to produce a vacuum in the label-carrier to lift a label from the label-box to the label-carrier and to hold it over said perforations and to produce a vacuum in said piston-chamber to move the label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure in the label-carrier to apply the transferred label to the article to be labeled and to produce an air-pressure in said piston-chamber to return said label-carrier to said label-box.

23. In an apparatus for labeling articles, a label-box for holding the labels having an opening smaller than the size of the labels, a hollow label-carrier for transferring a label from the label-box to the article to be labeled and having a perforated bottom, a support for the label-carrier in its travel, an air-pump having a piston-rod connected directly to a driving-wheel, a conduit connecting said label-carrier with said pump, a piston-chamber, a piston adapted to reciprocate in said chamber and having its piston-rod connected to the label-carrier, a conduit connecting said piston-chamber with said air-pump, means for moving the labels in the label-box upwardly toward the top of said box, and a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, said air-pump being adapted during its forward stroke to

produce a vacuum in the label-carrier to lift a label from the label-box to the label-carrier through said opening and to hold it over said perforations and to produce a vacuum in said piston-chamber to move the label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure in the label-carrier to apply the transferred label to the article to be labeled and to produce an air-pressure in said piston-chamber and to return said label-carrier to said label-box.

24. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, a device located in the line of travel of the label-carrier for applying adhesive material to the label as the under side of said label passes over and in contact with said device in the travel of said label from the label-box to the article to be labeled, a power-shaft, a driving-wheel fast on said power-shaft, and an air-pump having its piston-rod connected directly to said driving-wheel and adapted during its forward stroke to produce a vacuum in said label-carrier to lift a label to said label-carrier and to hold it thereon, and adapted during its return stroke to produce an air-pressure in said label-carrier to apply the transferred label to the article to be labeled.

25. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, a power-shaft, a driving-wheel fast on said power-shaft, and an air-pump having its piston-rod connected directly to said driving-wheel and adapted during its forward stroke to produce a vacuum in said label-carrier to lift a label to said label-carrier and to hold it thereon and to move said label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pressure in the said label-carrier to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

26. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, a support for the carrier in its travel, a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, and an air-pump adapted during its forward stroke to produce a vacuum in said label-carrier to lift a label to said label-carrier and to hold it thereon and to move said label-carrier with the label to the article to be labeled, and adapted during its return stroke to produce an air-pres-

sure in the said label-carrier to apply the transferred label to the article to be labeled and to return said label-carrier to said label-box.

27. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, and means for applying the transferred label to the article to be labeled.

28. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum to lift a label from the label-box to the label-carrier and to move the label-carrier with the label to the article to be labeled, means for applying the transferred label to the article to be labeled, and a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled.

29. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for lifting a label from the label-box and for holding it on the label-carrier, means for moving the label-carrier from the label-box to the article to be labeled, a device located in the line of travel of the label-carrier for applying adhesive material to the label as the underside of said label passes over and in contact with said device on the travel of said label from the label-box to the article to be labeled, and means for applying the transferred label to the article to be labeled.

30. In an apparatus for labeling articles, a label-box for holding the labels, a label-carrier for transferring a label from the label-box to the article to be labeled, means for producing a vacuum in the label-carrier to lift a label from the label-box and to hold it on the label-carrier during its travel to the article to be labeled, means for moving the label-carrier from the label-box to the article to be labeled, a device located in the line of travel of the label-carrier for applying adhesive material to the under side of the label on its travel from the label-box to the article to be labeled, means for producing an air-pressure in the label-carrier to apply the transferred label to the article to be labeled, and means for returning the label-carrier to the label-box.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 22d day of April, A. D. 1897.

CHARLES F. TEBBETTS.

Witnesses:

C. A. STEWART,
A. L. MESSER.