

1,041,542.

Patented Oct. 15, 1912.

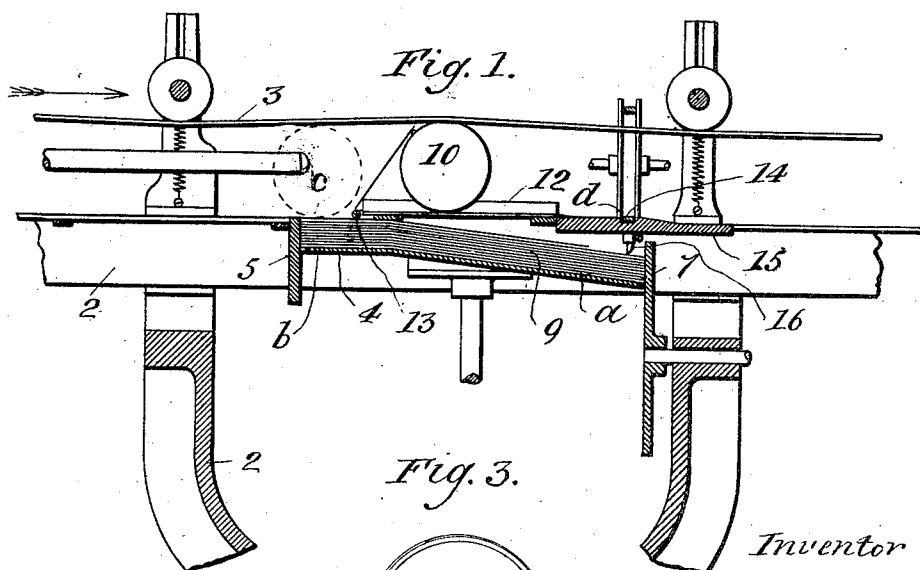
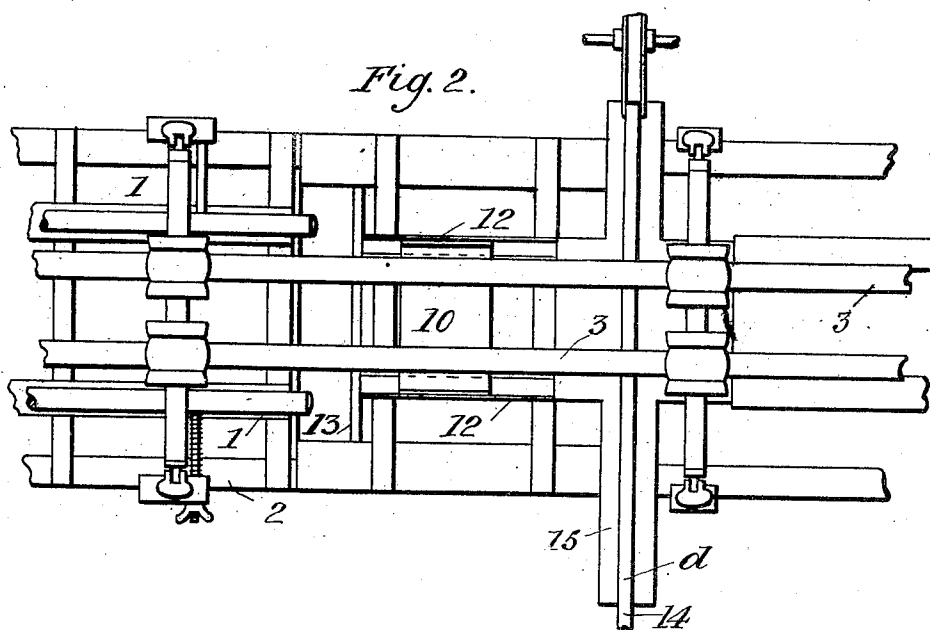
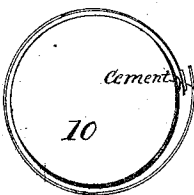


Fig. 3.



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UNITED STATES PATENT OFFICE.

FREDERICK W. WILD, JR., OF BALTIMORE, MARYLAND, ASSIGNOR TO BURT MACHINE COMPANY, A CORPORATION OF DELAWARE.

LABELING-MACHINE.

1,041,542.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FREDERICK W. WILD, Jr., of the city of Baltimore and State of Maryland, have invented certain Improvements in Labeling-Machines, of which the following is a specification.

Strip labels such as are usually affixed to cans, have an appreciable thickness, and are flat or free from wrinkles, and when stacked on the label holder of a labeling machine, they form a hard compact body upon which a rolling can may be pressed in the labeling operation without the laminated mass yielding to any material extent; but where tissue paper or other wrappers having an uneven surface are to be applied over the affixed labels, or directly upon the surface of the cans, the mass is yielding due to the flimsy nature of the paper, together with the great number of air-filled spaces between the sheets of the stack. There is in consequence a liability of the upper sheets or wrappers sliding upon those beneath, when a rolling can having dabs of adhesive on its surface is brought into contact with the upper wrapper, and the ordinary appliances employed to hold the thicker and smooth labels in place and prevent their disarrangement during the labeling operation, cannot be successfully used.

The present invention is therefore for the purpose of obviating the difficulty heretofore met with in the application of wrappers of the above mentioned description to cans, as will hereinafter fully appear.

In the description of the present invention which follows, reference is made to the accompanying drawing forming a part hereof, and in which:—

Figure 1 is a longitudinal section of such parts of the labeling machine as are involved in the present invention, and Fig. 2 a top view of the same. Fig. 3 is an enlarged end view of a can showing the same after the wrapper is affixed thereto, and is for the purpose of indicating to what parts of the wrapper cement and paste are applied.

Referring now to the drawing, 1 are bars (shown only in Fig. 2) supported by the frame 2 of the machine. These bars form the entrance runway upon which the flanges of the heads of the cans rest as the cans are rolled along the machine in the di-

rection indicated by the arrow in Fig. 1, by means of the lower lay 3 of the endless conveyor belt.

4 is the label holder upon which the wrappers to be applied to the cans are stacked; and to adapt it for the purpose, its rear portion *a* is downwardly inclined, while the forward portion *b* is horizontal as shown in Fig. 1.

5 and 7 are vertical guide plates for the ends of the stack of wrappers which is represented by 9. The plate 5 is fixed, and the plate 7 longitudinally adjustable, as shown in Fig. 1.

One can only is illustrated in Figs. 1 and 2 of the drawing, and is indicated by 10; and the upper wrapper is shown as it would appear during the labeling operation. A dotted delineation of a part of a can denoted by *c* in Fig. 1 illustrates the position of the can as it comes into contact with and picks up the top wrapper. A track of limited length, is formed of angle bars 12 between the vertical flanges of which the cans roll during the application of wrappers thereto. The said track is elevated slightly above the upper wrapper of that portion of the stack of wrappers which rest on the horizontal part *b* of the label holder; and immediately in front of the track, is a fixed rod 13 against which the stack of wrappers is pressed through the medium of the label holder 4. The mechanism for elevating the label holder is not shown.

14 is an endless pasting belt extending transversely of the machine, with its lower lay in a groove in the fixed plate 15 which covers the rear end of the stack of labels; and a coating of paste is applied to the upper surface of the lower lay of the belt by means of any appropriate appliances which however form no part of the present invention, and for that reason are not shown.

The rear end of the stack of labels is held down by means of two or more pins or knives 16 one only of which is shown in Fig. 1, which not only serve to keep the inclined portion of the wrappers in a comparatively compact condition, but offer some slight resistance to the withdrawal of the upper wrapper from the one beneath it, after its front end has been picked up by the rolling can to which has been previously applied dabs of adhesive material consist-

ing preferably of cement which is liquefied by heat.

In the operation of the machine, a can to which an adhesive has been applied, upon reaching the position indicated by its dotted delineations in Fig. 1, picks up the top label, and as it advances, rolls upon the elevated track and draws the label from under the pins 16 and also from under the rod 13. As the can reaches and rolls over the pasting belt, 14, the outer surface of the end of the wrapper which has been picked up by the can through the medium of the dabs of heated cement, reaches a coating of paste, and when in the continued rolling of the can the unpasted rear end of the wrapper is pressed over the forward end which is attached to the can, the application of the wrapper to the can is completed.

From the foregoing description of the operation of the machine, it will be understood that the can does not roll upon the wrapper except for a moment when it touches its forward end; and that paste is not applied to the rear end of the wrapper but over the forward end which is already attached to the can.

I claim as my invention:—

In a labeling machine, an entrance runway for the cans, a label holder the rear portion of which has a downward inclination, and the forward portion of which has a horizontal position, whereby the holder is adapted to sustain the elevated end of a stack of wrappers in practically horizontal alinement with the entrance runway, means to hold the stack of wrappers down upon its holder and from under which the upper wrapper is drawn by the rolling can, and an elevated track for the cans which is situated in the rear of the forward end of the label holder, combined with a transversely moving pasting belt over the lower lay of which the can is adapted to pass, and a conveyer belt arranged to roll the cans over a limited portion of the upper wrapper of the stack, and then along the elevated track to and across the lower lay of the pasting belt, substantially as specified.

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