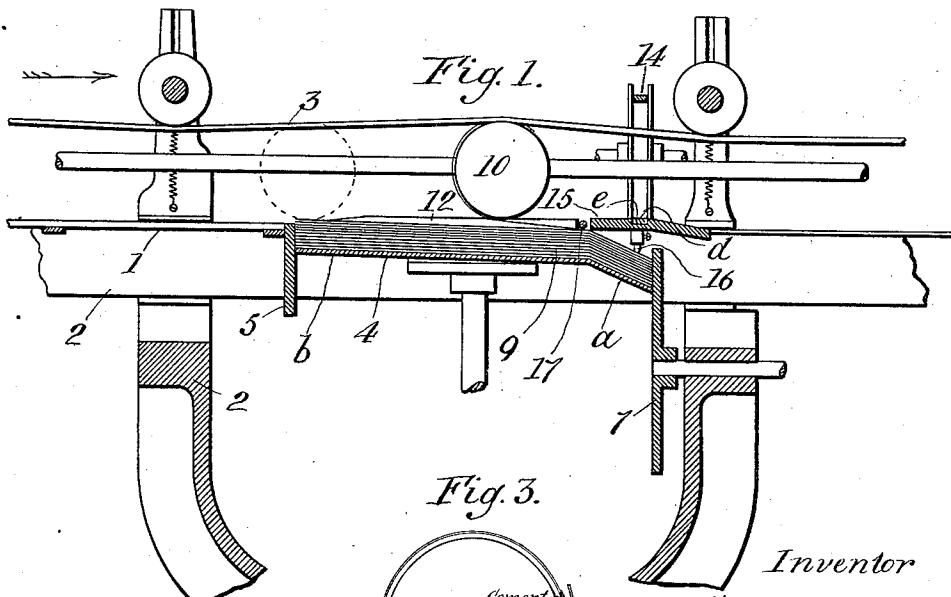
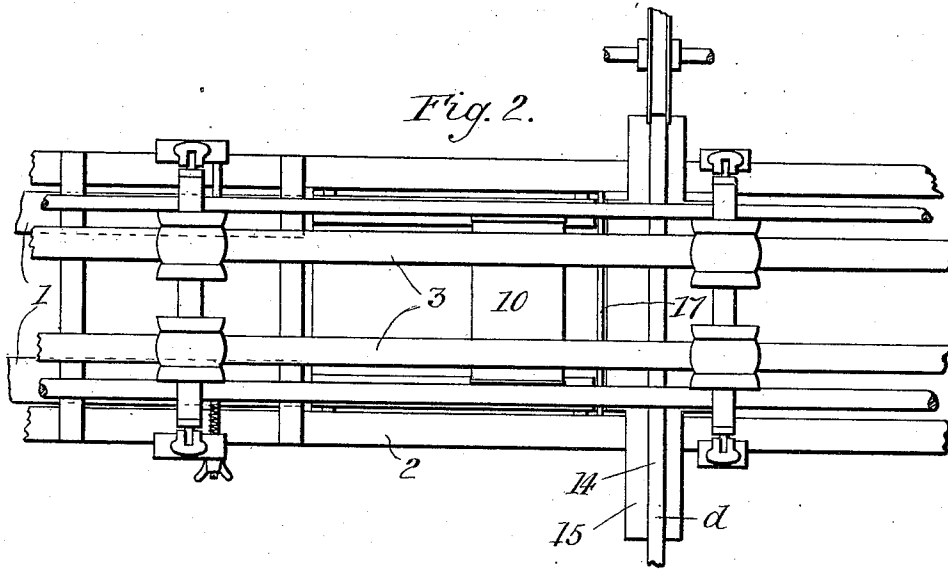


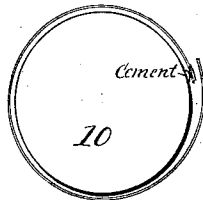
F. W. WILD, JR.
 LABELING MACHINE.
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1,041,543.

Patented Oct. 15, 1912.



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UNITED STATES PATENT OFFICE.

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LABELING-MACHINE.

1,041,543.

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.

This invention relates to certain improvements in that class of labeling machines wherein a can, after it has been attached to the forward end of a label by the application to the can of an adhesive, preferably cement liquefied by heat, is rolled over the paste-coated inner surface of the lower lay of a transversely moving belt and the attached forward end of the label thereby provided with a coating of paste of limited width upon which the uncoated rear end of the label is pressed in the continued rolling of the can.

In machines in which labels are applied as above briefly described, the rear end of the stack is forced upward by a label holder against points or equivalent appliances, and also against a transversely extending rod, from under which the top label is drawn by the rolling can. Until my present invention, there has been nothing interposed between the outer surface of the lower lay of the pasting belt, and the stack of labels, and should there be a superfluous quantity of paste on the pasting belt, a condition which is difficult to avoid, a portion of the paste in the continued operation of the machine, passes over the lateral edge of the stack, and the labels thereby becoming wet, their smooth application to the cans is prevented.

The present invention consists in interposing between the transversely moving pasting belt and the stack of labels, a plate or its equivalent from under which the rear end of the upper label of the stack is drawn, and in providing the said plate with a groove longitudinally of which the coated belt traverses. By this means no paste can possibly come in contact with the stack of labels, and the upper label which is devoid of paste at its rear end is applied smoothly to the outer surface of the forward end of the label which is already attached to the can and carries a narrow strip of paste on its outer surface, received from the pasting belt.

In the further 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 as it appears immediately before the label is completely affixed thereto, and is for the purpose of indicating to what parts of the label, cement and paste are applied.

Referring now to the drawing, 1, 1 are bars supported by the frame 2 of the machine. These bars form the entrance runway upon which the flanges of the heads of the can rest as the cans are rolled along the machine in the direction indicated by the arrow in Fig. 1 by means of the lower lay 3 of the endless conveyer belt.

4 is the label holder upon which the labels to be affixed to the cans are stacked; and to adapt it for the purpose, it is placed in an inclined position and with its rear portion *a* having a greater inclination than the forward part *b*.

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

One can only in full lines is illustrated in Figs. 1 and 2 of the drawing, and is indicated by 10; and the upper label is shown as it would appear during the labeling operation. A dotted delineation of a can is shown in Fig. 1, to illustrate its position as it comes into contact with and picks up the top label.

12 is an elevated track of limited length, for the rolling cans. 14 is an endless pasting belt extending transversely of the machine, the lower lay *d* of which runs in a groove *e* 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 said 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 knives or pins 16, one only of which is shown, and that in Fig. 1. These pins serve to keep the rear end of the labels in a compact condition, but

offer some resistance to the withdrawal of the upper label from the one beneath it, after its forward end has been picked up by the rolling can to which has been previously applied, dabs of adhesive material consisting preferably of cement which is liquefied by heat.

17 is a wire or rod situated at the rear edge of the plate 15 from under which the upper label is drawn.

From the foregoing description it will be clearly seen that no matter how much paste is carried by the pasting belt, no paste from it can possibly come into contact with the stack of labels which under all circumstances remain dry at their rear ends until they come into contact with the paste on the forward

end of the labels which at that time are affixed to the cans.

I claim as my invention:

In a can labeling machine, an entrance runway for the cans, and a label holder adapted to hold a stack of labels in the path of the cans, combined with a plate which covers a portion of the label holder at the rear end thereof, the said plate having a transversely extending groove therein, and a pasting belt adapted to traverse the said grooves, substantially as, and for the purpose specified.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."