H. ACKERMANN.

LABEL PASTING MACHINE.

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1,206,641. Patented Nov. 28, 1916.

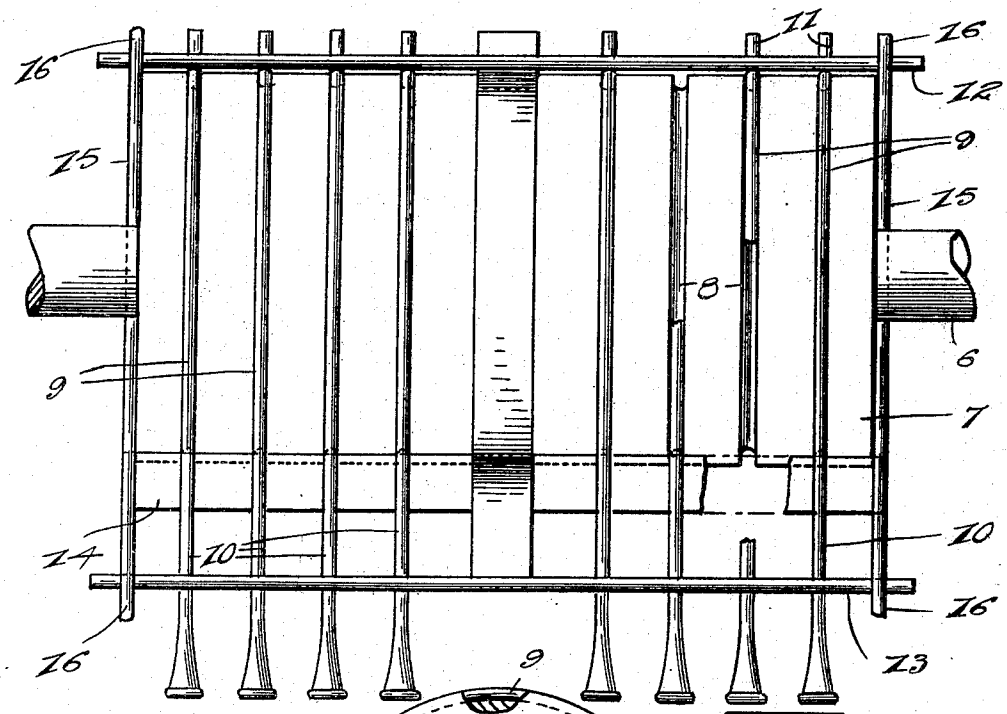


Fig. 1.

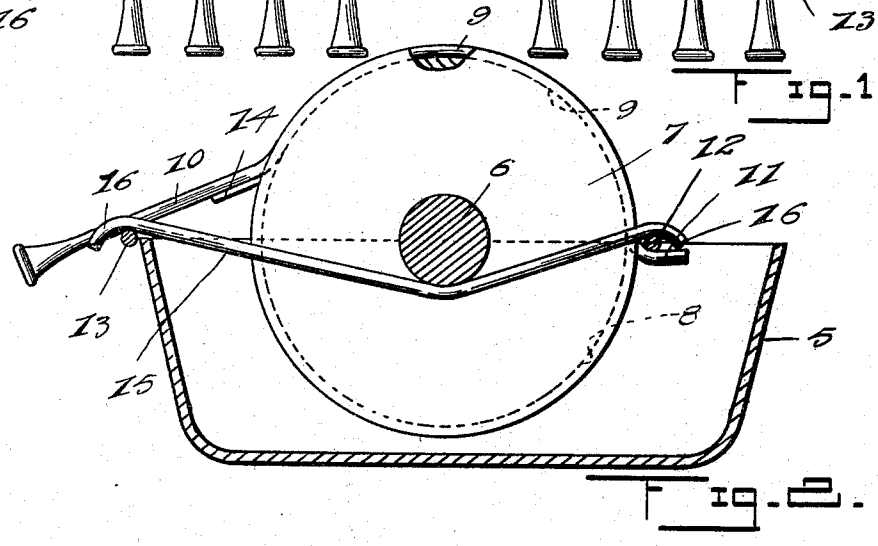


Fig. 2.

Witnesses

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LABEL-PASTING MACHINE.

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To all whom it may concern:

Be it known that I, HANS ACKERMANN, a subject of the Emperor of Germany, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Label-Pasting Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to machines for applying paste to labels and other paper sheets, and has for its primary object to provide a novel type of paste applying roller in combination with means for guiding or lifting the labels off of the roller after the paste has been applied thereto, and thus prevent the labels from adhering to the roller and being carried therewith into the paste container.

Another object is the provision of means associated with the label lifting or guiding fingers for removably securing the latter in operative position with relation to the paste applying roller.

With these and other objects in view, the invention consists in the novel construction combination and arrangement of parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 represents a plan view of the improved roller and guide fingers, the paste container being removed, and Fig. 2 represents a transverse sectional view through the paste container illustrating the roller and guide fingers in end elevation.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates a preferred type of paste container upon which is supported a shaft 6, supporting the paste-applying roller 7. The roller 7 is of such diameter as to project into the container 5 and is adapted to run in the paste contained in said container.

The periphery of the roller 7 is formed with a plurality of uniformly spaced circumferential grooves 8, receiving the curved portions 9 of a plurality of guide fingers, having straight forward ends 10 projecting forwardly of the roller 7 and over the front edge of the paste container 5. The rear ends 11 of the fingers are directed angularly in a horizontal plane and support a horizontally disposed bar 12. Adjacent their forward ends 10 the guide fingers are permanently secured to a transverse connecting rod 13. A deflector plate 14, having a beveled rear edge is secured to the under portions of the straight forward ends 10 of the fingers adjacent the front surface of the paste applying roller 7.

The several fingers 9 are retained in proper position with relation to the roller 7 by a pair of spring retaining members 15 arranged in the opposite ends of the roller 7 and having curved extremities 16 removably engaged over the terminals of the rear and front rods 12 and 13, respectively. The central portions of the retaining members 15 extend under and resiliently press against the lower portion of the supporting shaft 6, thereby causing the opposite curved ends 16 thereof to exert downward pull upon the rear and front rods 12 and 13.

As clearly illustrated in Fig. 2 the outer surfaces of the curved portions 9 of the guide fingers lie flush with the outer surface of the roller 7, and thus permit the labels or other articles to which paste is to be applied to lie flat upon the roller and insure an even distribution of the paste thereon. As the labels are carried with the roller 7 in the direction of rotation of the latter, as indicated by arrows in Figs. 1 and 2, the forward edges of the labels are engaged with the straight forward extremities 10 of the guide fingers, and are thereby lifted from the roller and deposited forwardly of the latter. The guide fingers may be quickly and conveniently removed from the roller 7 to permit of cleaning thereof by disengaging the ends 16 of the retaining members from the rods 12 and 13, and subsequently lifting the curved portions 9 of the guide fingers out of the grooves 8 of the roller.

What is claimed is:

1. In a paste applying machine, a paste container, a roller supported in said container having a plurality of uniformly spaced circumferential grooves, a plurality of fingers arranged in said grooves and projecting forwardly of said roller, and a deflector plate secured to said fingers having a beveled edge engaging said roller.

2. In a paste applying machine, a container, a roller supported in said container

having a plurality of circumferential grooves, a plurality of fingers arranged in said grooves and projecting forwardly of said roller, means connecting said fingers forwardly and rearwardly of said roller, and spring means engaged with said connecting means and extending under said roller for retaining said fingers in said grooves.

3. In a paste applying machine, a container, a shaft supported in said container, a roller suported on said shaft having a plurality of circumferential grooves, a plurality of guide fingers arranged in said grooves and projecting forwardly and rearwardly of said roller, rods connected with the opposite extremities of said fingers forwardly and rearwardly of said roller, and spring retaining members having curved ends engaged with said rods and extending under said shaft for securing said fingers in operative position with relation to said roller.

4. In a paste applying machine, a container, a roller supported in said container having a plurality of circumferential grooves, a plurality of fingers arranged in said grooves and projecting forwardly of said roller, rods connected with the opposite extremities of said fingers forwardly and rearwardly of said roller, and means associated with said rods for securing said fingers in operative position with relation to said roller.

5. In a paste applying machine, a container, a paste applying roller supported in said container having a plurality of circumferential grooves, a plurality of fingers arranged in said grooves and projecting forwardly of said roller, a deflector plate connecting said fingers forwardly of said roller, rods connecting said fingers forwardly and rearwardly of said roller, and spring-retaining members having curved ends engaged with said rods for securing said fingers in operative position with relation to said roller.

In testimony whereof I affix my signature in presence of two witnesses.

HANS ACKERMANN.

Witnesses:

PHIL M. SCHOESER,

CHAS. A. BORNSTEIN.

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