No. 743,083. PATENTED NOV. 3, 1903.

F. E. JAGENBERG.

MACHINE FOR LABELING ROUND PASTEBOARD OR PAPER BOXES OR CASINGS.

APPLICATION FILED DEC. 30, 1902.

NO MODEL.

FIG. 1.

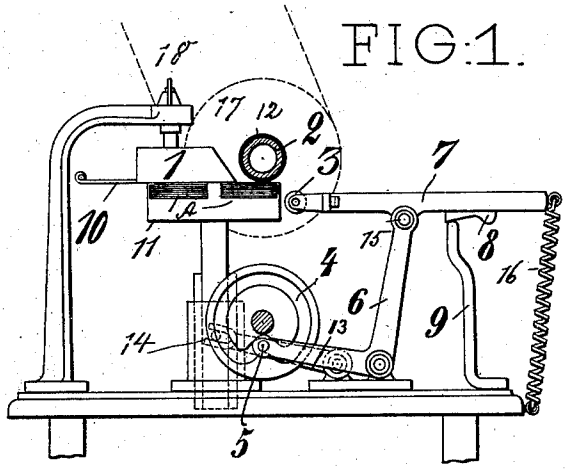


FIG. 2

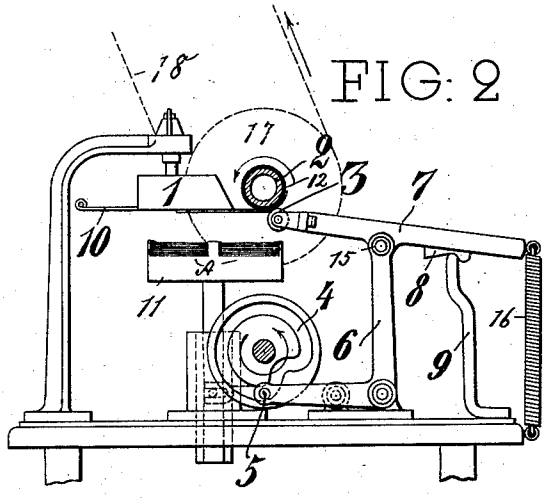
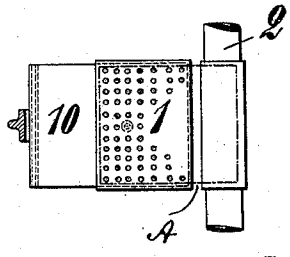


FIG. 3.



Witnesses:
Arthur Zumpe
William Schulz.

Inventor:
Ferdinand Emil Jagenberg
by his Attorney
Paul Von Briesen

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 743,083. Patented November 3, 1903.

UNITED STATES PATENT OFFICE.

FERDINAND EMIL JAGENBERG, OF DUSSELDORF, GERMANY.

MACHINE FOR LABELING ROUND PASTEBOARD OR PAPER BOXES OR CASINGS.

SPECIFICATION forming part of Letters Patent No. 743,083, dated November 3, 1903.

Application filed December 30, 1902. Serial No. 137,118. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND EMIL JAGENBERG, a citizen of Germany, and a resident of Dusseldorf, Germany, have invented certain new and useful Improvements in Machines for Attaching Labels to Boxes, of which the following is a specification.

This invention relates to a machine by which a label or filament is so secured to the body of a round box that its overlapping edge will be securely glued to the underlying edge.

In the accompanying drawings, Figure 1 is a front view of my improved machine, showing the magazine raised; Fig. 2, a similar view with the magazine lowered, and Fig. 3 a bottom view of the glue-box.

The numeral 1 represents a glue-box or a similar device, such as a gluing roller or strip, for providing the rear end of a label with glue or paste. The drawing Fig. 3 shows the glue-box provided with a perforated bottom, which discharges only the liquid glue in limited quantities at the places desired. A sliding gate 10 may be used to regulate the outflow of the glue. Beneath the glue-box is arranged a vertically-movable magazine 11, containing the labels, filaments, or paper coverings A, that are to be secured to the surface of a cylindrical box 12. The magazine 11 projects with its rear end beneath the box 1 and with its front end beneath a rotatable cylindrical mandrel 2, upon which the box 12 is slipped. The mandrel 2 may be rotated by means of a pulley 17 and belt 18. A cam 4 imparts vertical reciprocating movement to magazine 11 by forked lever 13 and pin 14.

A pressure-roller 3 is hung in one end of a lever 7, pivoted at 15 to an elbow-lever 6, which is oscillated by cam 4 through cam-roller 5. The lever 7 is influenced by a spring 16 and is provided with a shoulder 8, adapted to be engaged by a fixed arm 9.

The operation is as follows: As the magazine 11 is raised the rear end of the uppermost label A is coated with glue from box 1, while its front end will be pressed against the box 12 on mandrel 2, such box being previously coated with glue. The magazine descends, and the label A will, by the rotation of the mandrel, be laid around the box and glued thereto. As the magazine descends the roller 3 is advanced by elbow-lever 6 toward the mandrel and is pressed against the label by the spring 16 and the engagement of arm 9 with the right end of shoulder 8, Fig. 2. After the label has been properly pasted to the box and before the next ascent of the magazine the roller 3 is withdrawn from the mandrel by lever 6 and is simultaneously lowered by the engagement of arm 9 with the left end of shoulder 8, Fig. 1, against which it is held by spring 16. It will be seen that as the rearmost end of the label is provided with the adhesive coating the label will be properly pasted to the box at its overlapping edges.

What I claim is—

1. In a machine for attaching labels to boxes, the combination of a glue-supplier, with a rotatable cylindrical mandrel adapted to be embraced by the box, and with a reciprocating label-magazine beneath the glue-supplier and mandrel, substantially as specified.

2. In a machine for attaching labels to boxes, the combination of a glue-supplier, with a rotatable cylindrical mandrel adapted to be embraced by the box, a reciprocating label-magazine beneath the glue-supplier and mandrel, and a pressure-roller adapted to be advanced against the mandrel, substantially as specified.

3. In a machine for attaching labels to boxes, the combination of a glue-supplier, with a rotatable cylindrical mandrel adapted to be embraced by the box, a reciprocating label-magazine beneath the glue-supplier and mandrel, a spring-influenced lever, a pressure-roller pivoted thereto, a shoulder on the lever, and an arm adapted to engage the shoulder, substantially as specified.

4. In a machine for attaching labels to boxes, the combination of a glue-supplier, with a rotatable cylindrical mandrel adapted to be embraced by the box, a reciprocating label-magazine beneath the glue-supplier and mandrel, a cam, an elbow-lever actuated thereby, a spring-influenced lever pivoted to the elbow-lever, a pressure-roller carried by the lever, a shoulder on the lever, and an arm adapted to engage the shoulder, substantially as specified.

Signed by me at the United States consulate, Dusseldorf, this 12th day of December, 1902.

FERDINAND EMIL JAGENBERG.

Witnesses:
PETER LIEBER,
WILLIAM ESSENWEIN.