

No. 681,101.

Patented Aug. 20, 1901.

P. F. CASSIDY.
PASTE APPLYING DEVICE.

(Application filed Apr. 16, 1901.)

(No Model.)

Fig. 1

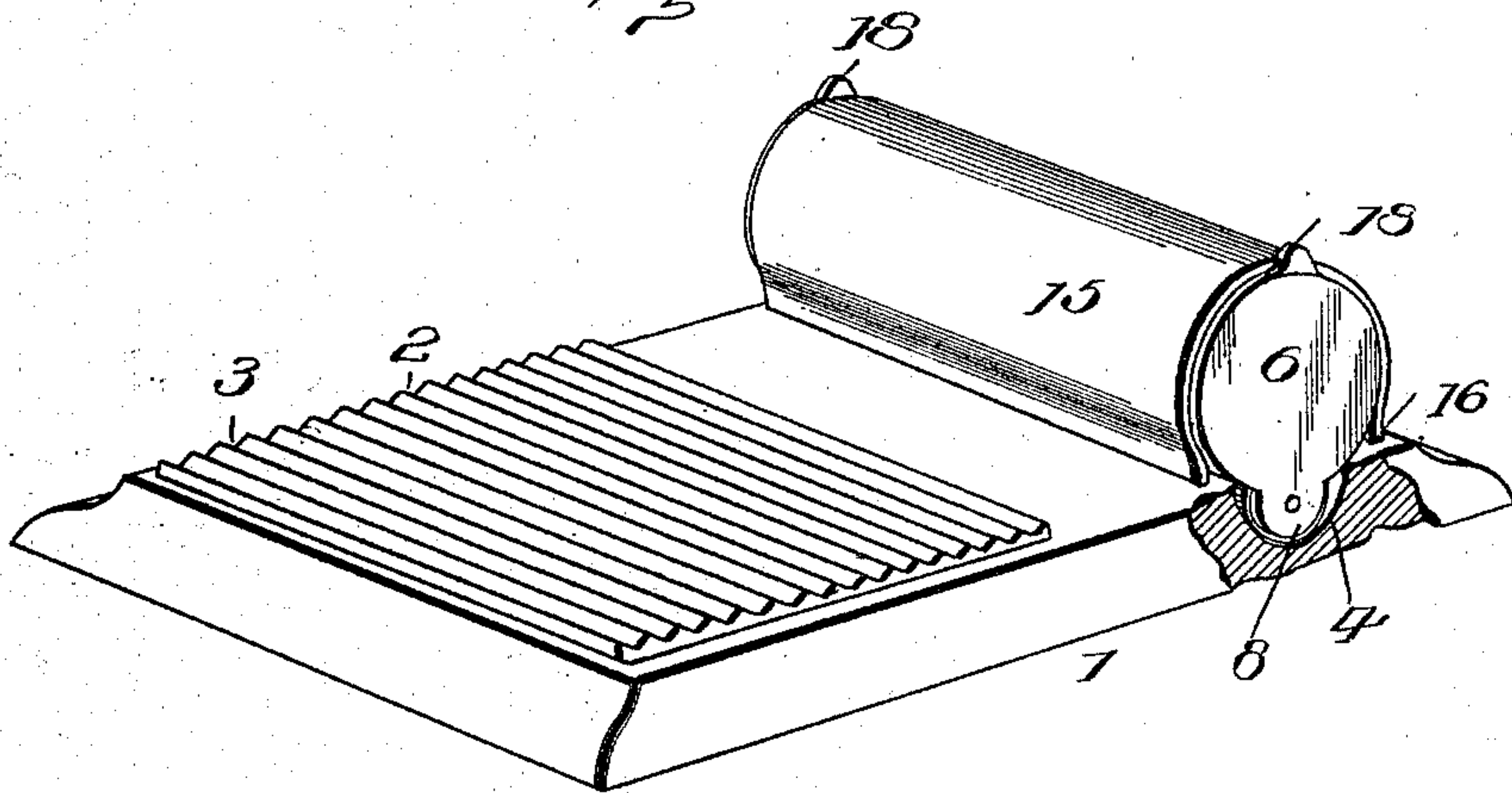


Fig. 2.

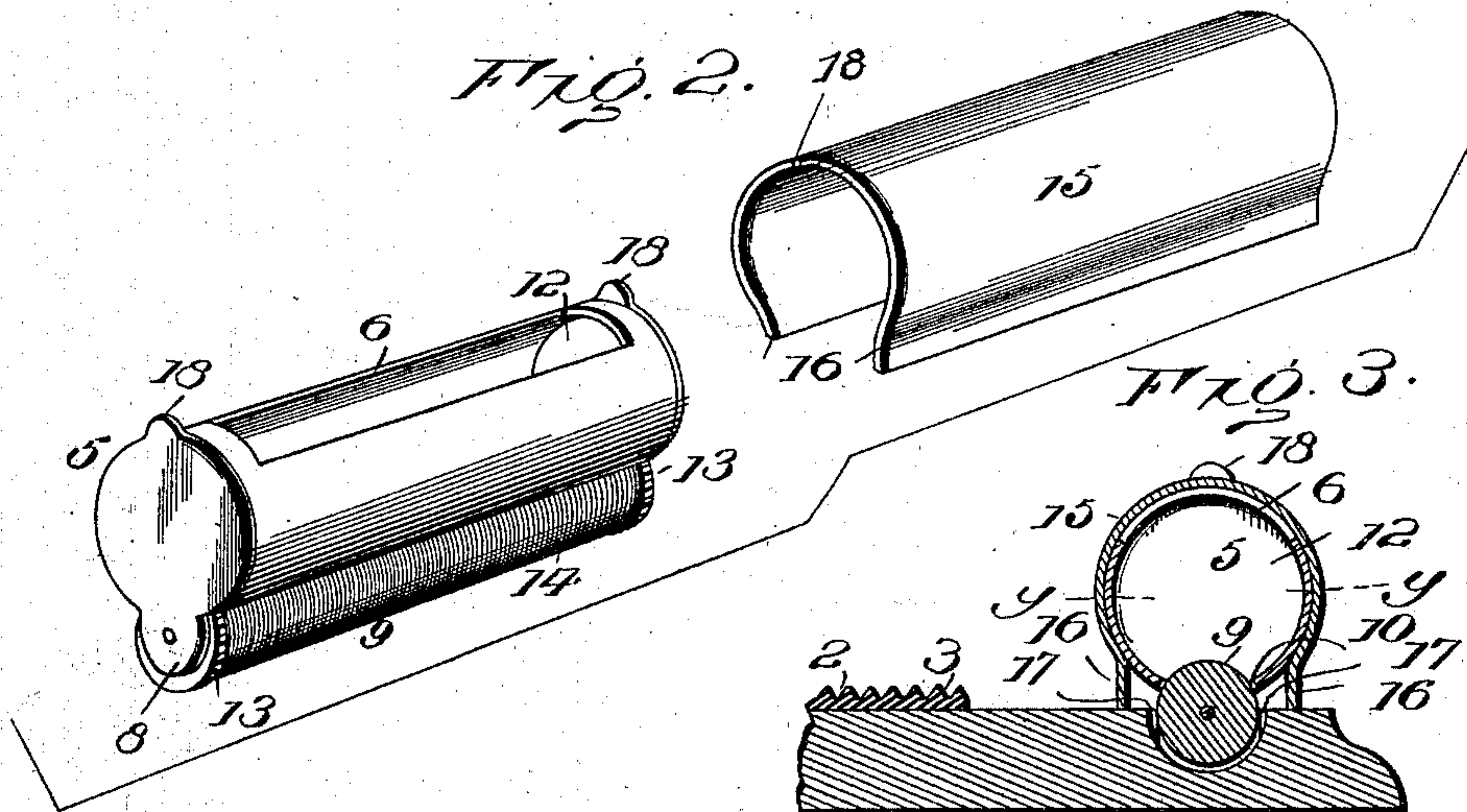


Fig. 3.

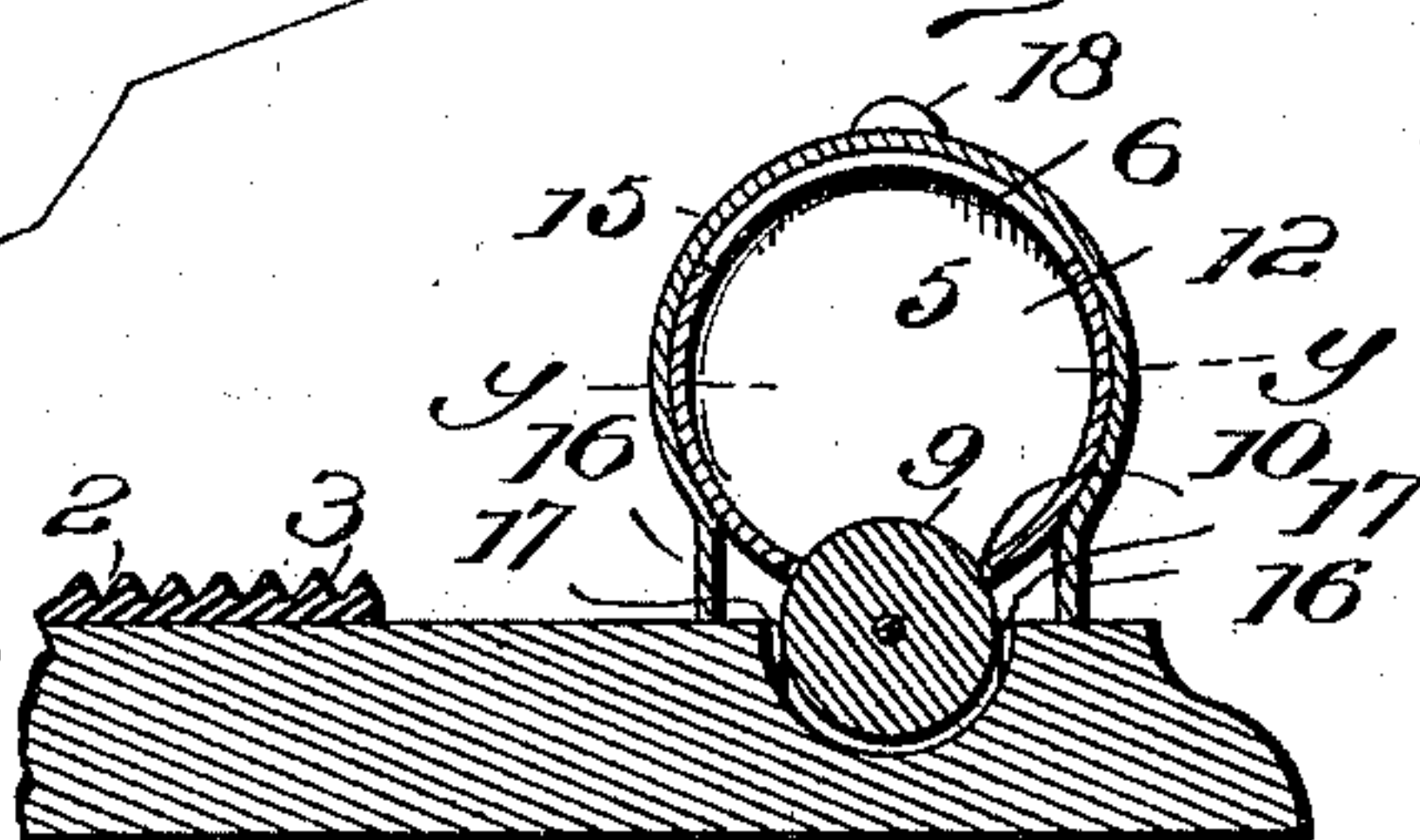


Fig. 4.

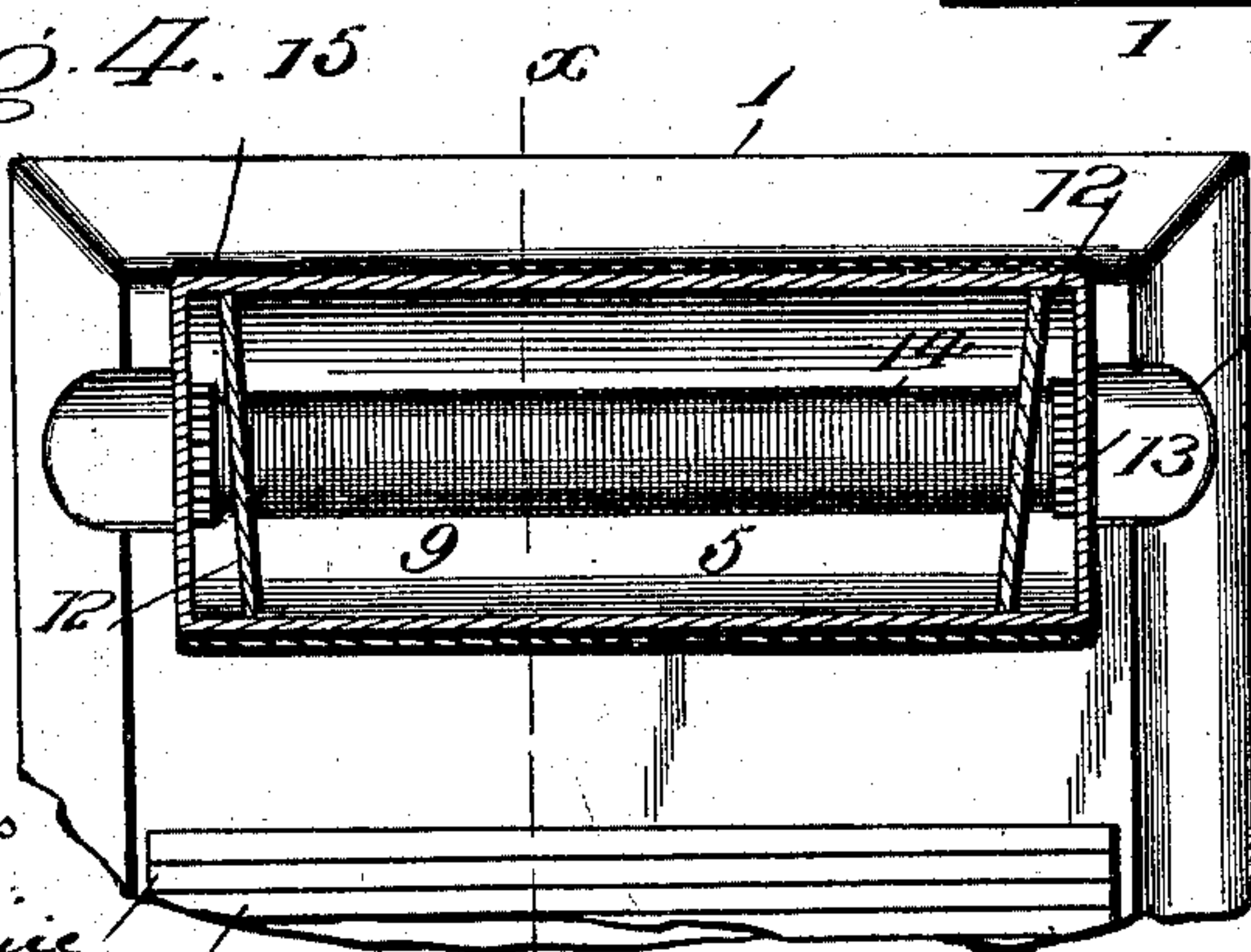
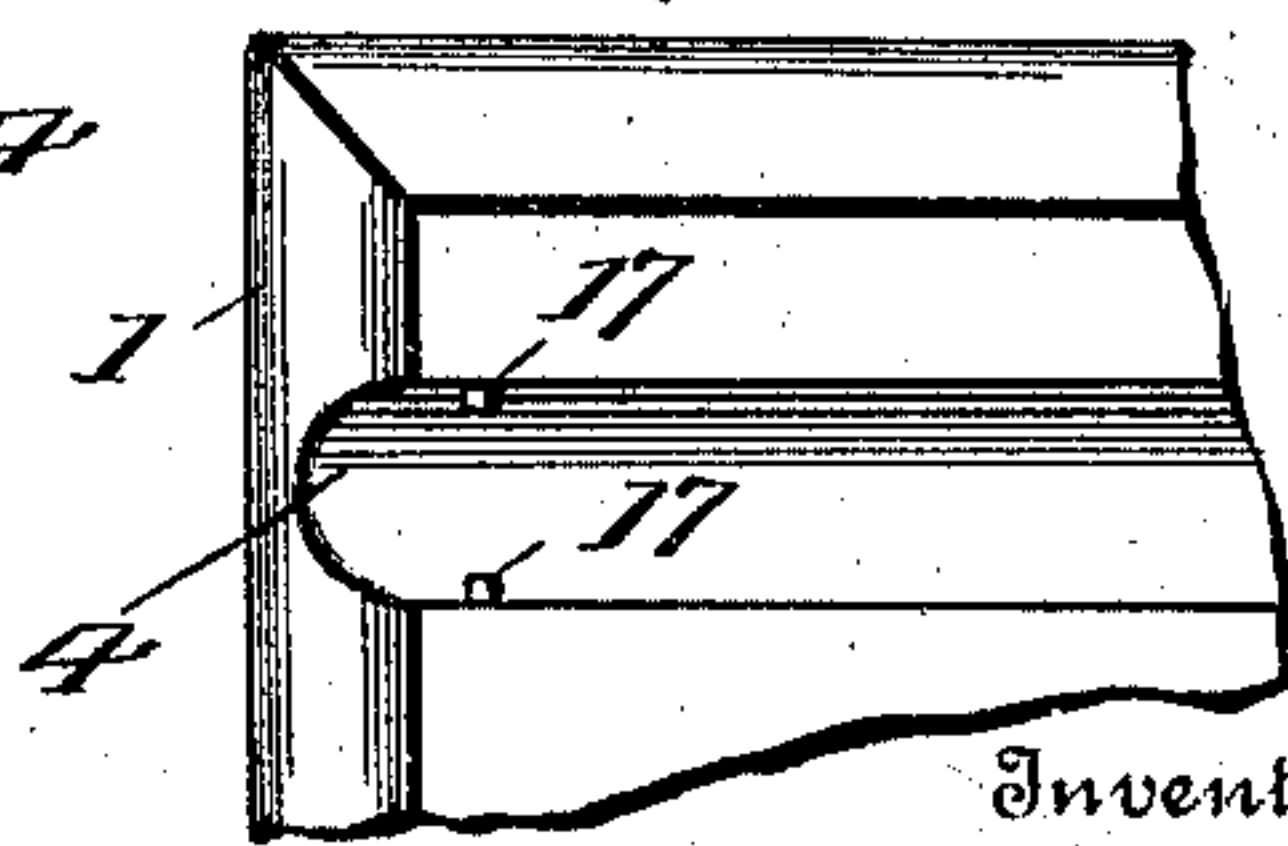


Fig. 5.



Witnesses

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PATRICK F. CASSIDY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO BOSTON BOTTLE WIRING AND LABELING COMPANY, OF SAME PLACE.

PASTE-APPLYING DEVICE.

SPECIFICATION forming part of Letters Patent No. 681,101, dated August 20, 1901.

Application filed April 16, 1901. Serial No. 56,046. (No model.)

To all whom it may concern:

Be it known that I, PATRICK F. CASSIDY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Paste-Applying Devices; 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 paste-applying devices.

The objects of the invention are to provide simple and efficient means for holding the paste or mucilage, to prevent loss by evaporation, to effectively spread the paste, to obviate the tendency of clogging the mechanism by the collection of hard dry paste, and to enable the holder to be easily replenished.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective, parts being broken away. Fig. 2 is a view of the paste-reservoir and distributing-roll, the cover of the former being removed. Fig. 3 is a cross-section on line $x x$, Fig. 4. Fig. 4 is a horizontal section on line $y y$, Fig. 3. Fig. 5 is a fragmentary view.

Referring to the drawings, 1 designates a flat bed, the major portion of the upper surface of which is covered with a mat 2, preferably of rubber, formed with transverse corrugations 3. In the bed near one end is a transverse cut-out or chamber 4 of length nearly equal to the width of the bed.

The pasting device 5 comprises a cylindrical reservoir, preferably of metal, having an opening 6 in its top. The ends of the reservoir are formed with depending ears 8, in which is journaled the paste-distributing roller 9, which latter intersects the reservoir, being projected therein through a longitudinal slot 10 in the bottom. This slot is sufficiently wide to permit the roller to revolve and carry upon its surface a thin film of the adhesive fluid. Within the reservoir, adjacent to each end, are deflectors 12, corresponding in shape to the circular end pieces and set at an angle relatively to said end pieces,

so that the paste will in the revolution of the roller be directed away from the ends and toward the center of the reservoir.

The distributing-roller is formed at each end with corrugations 13, designed in the application of paste to engage the transverse corrugations of the mat, and thereby effect the turning of the roller, while fine encircling threads 14, formed on the roller throughout its length, insure the collection of a sufficient quantity of the paste in the passage of the roller through the reservoir. The cover 15 is of slightly less normal diameter than the reservoir over which it clamps, covering nearly all of the latter except at the bottom, where its edges are bent downwardly into vertical portions 16, paralleling the roller and forming guards to prevent the operator's fingers contacting therewith. These vertical portions engage the bed on opposite sides of the roller-chamber, forming stops which prevent the roller from contacting with the bottom of such chamber. When thus positioned, the roller engages wire projections 17, which hold it as against lateral displacement, and hence out of contact with the sides of the chamber. A short lug 18 in the top of the reservoir engaging a recess 18' in the cover prevents axial turning of the latter.

In the use of paste-applying devices which employ a distributing-roller difficulty is frequently experienced from the fact that the roller does not turn, owing to the collection of hard dry paste around its bearings, rendering the proper distribution of the paste impossible, but by my invention this difficulty is obviated. The operator holds the paste-applying device by grasping the reservoir, and the sheet of paper or card to which the paste is to be applied is laid upon bed 1. Only slight pressure is needed to distribute the paste, since the engagement of corrugations 13 and 3 effects the rotation of the roller.

In addition to the advantage above set forth it will be noted that the cover for the paste-reservoir renders the latter practically air-tight and that when the device is not in use the roller fits in the chamber and is supported by the cover, the ends of which also serve to guard the operator's fingers from contact with the roller. By providing the reservoir with

the deflectors at the ends the paste is prevented from crowding out at those points into the corrugations 13 and is directed toward the center of the holder.

5 I claim as my invention—

1. The combination with the bed having transverse grooves on its upper surface, and a chamber near one end, of the paste-holder, a roller fitted in an opening in the bottom of
10 such holder and designed to rest in said chamber when not in use, and means on said roller for coacting with said grooves when the holder and roller are moved over the bed, substantially as set forth.

2. The combination with the bed having transverse grooves on its upper surface, and a chamber near one end, of the paste-holder, a roller fitted in an opening in the bottom of
15 such holder and designed to rest in said chamber when not in use, means for holding said roller out of contact with the walls of said chamber when located therein, and means on said roller for coacting with the grooves of
20 said bed when the paste-holder is moved over the latter, substantially as set forth.

3. The combination with the bed having transverse grooves on its upper surface and a chamber near one end, of the paste-holder, a roller fitted in an opening in the bottom of
25 such holder and designed to rest in said chamber when not in use, stops carried by said holder for engaging said bed and holding the roller out of contact with the walls of the chamber when located therein, and means on
30 said roller for coacting with the grooves of the bed when the paste-holder is moved over the latter, substantially as set forth.

4. In a paste-applying device, a horizontally-disposed cylindrical reservoir formed
35 with a longitudinal charging-opening in its top and a corresponding outlet-opening in its bottom, a paste-applying roller fitted in said outlet-opening, a metallic cover of substantially the same shape as, but of slightly less
40 normal cross-sectional area than, the reservoir on which it is designed to clamp, and means for locking the cover as against lateral displacement, as set forth.

5. In a paste-applying device, a horizontally-disposed cylindrical reservoir formed
45 with a longitudinal charging-opening in its top and a corresponding outlet-opening in its bottom, a paste-applying roller fitted in said

outlet-opening, a metallic cover of substantially the same shape as, but of slightly less
55 normal cross-sectional area than, the reservoir over which it is designed to clamp, said cover having depending portions extending below the reservoir and paralleling said roller, and means for locking the cover as
60 against lateral displacement, substantially as set forth.

6. In a paste-applying device, a reservoir, a paste-applying roller below the bottom thereof, and guards on each side of and paralleling said roller, as set forth.

7. In a paste-applying device, a reservoir, a paste-applying roller below the bottom thereof, and a cover for said reservoir having vertical portions projecting below the bottom
70 of said reservoir and held away from the roller to form parallel guards on opposite sides thereof, as set forth.

8. In a paste-applying device, a cylindrical reservoir having a charging-opening, a paste-applying roller below the bottom of such reservoir, a cover conforming to, but of slightly less normal cross-sectional area than, said
75 reservoir having depending vertical portions extending below said reservoir paralleling said roller on opposite sides thereof to form guards therefor, as set forth.

9. In a paste-applying device, a paste-reservoir having an opening in its top and a longitudinal slot in its bottom, ears depending
80 from said reservoir, a paste-distributing roller journaled in said ears and designed to project into said paste-reservoir through said slot, and a cover for said opening clamping said reservoir and having vertical portions
85 extending below the reservoir and paralleling said roller on opposite sides thereof, as set forth.

10. In a paste-applying device, a reservoir having an opening in its bottom, a paste-applying roller fitted in said opening, and deflectors in said reservoir near the ends thereof
90 set at an angle to such ends, as and for the purpose set forth.

In testimony whereof I have signed this
100 specification in the presence of two subscribing witnesses.

PATRICK F. CASSIDY.

Witnesses:

NEIL F. DOHERTY,
GEORGE A. FLYNN.