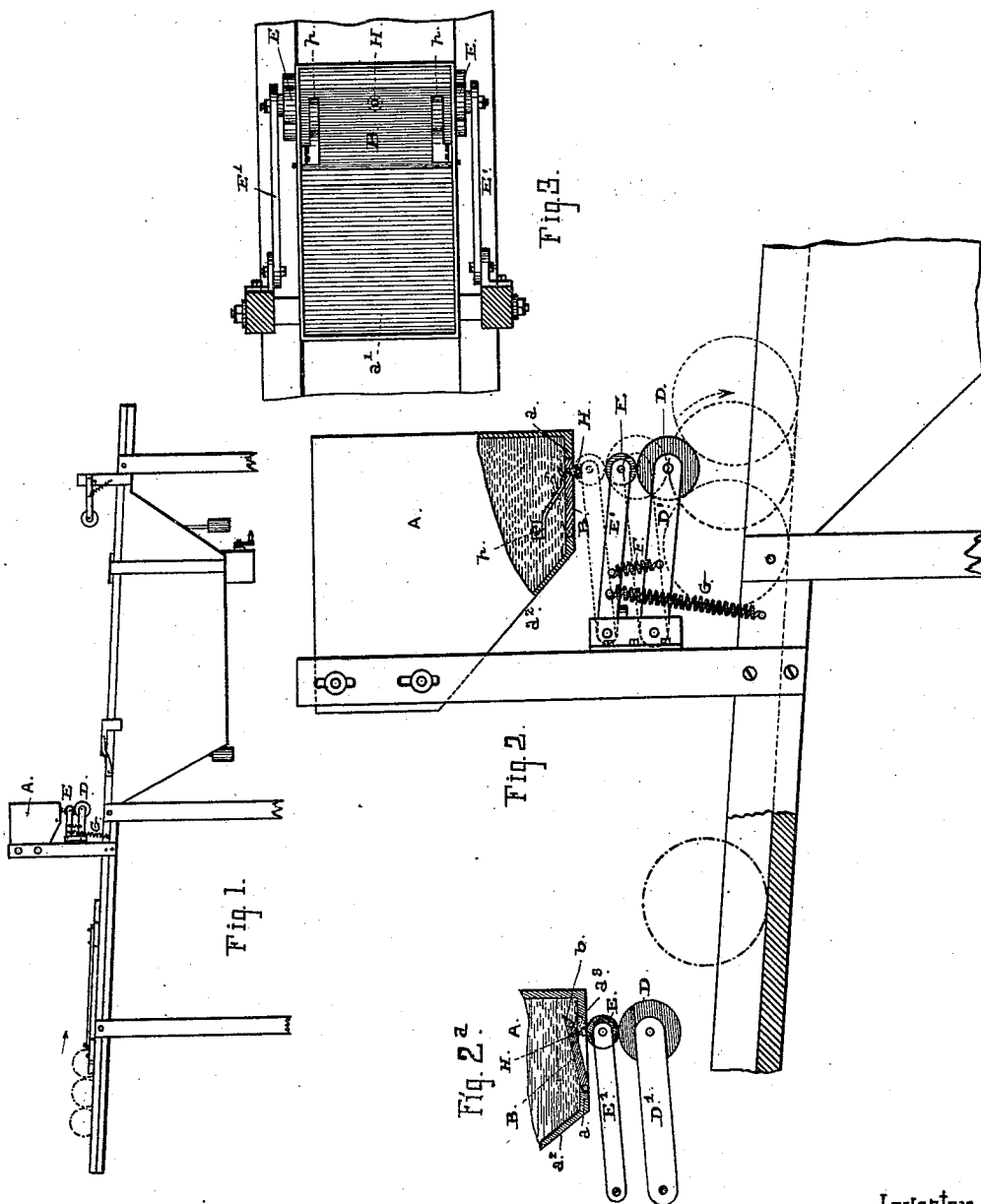


(No Model.)

C. E. NEWELL.
AUTOMATIC FOUNTAIN FOR PASTING MACHINES.

No. 470,164.

Patented Mar. 1, 1892.



Witnesses:

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by Smith & Watson
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UNITED STATES PATENT OFFICE

CHARLES E. NEWELL, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO PARKER CRITTENDEN, OF SAME PLACE.

AUTOMATIC FOUNTAIN FOR PASTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 470,164, dated March 1, 1892.

Application filed June 6, 1891. Serial No. 395,326. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. NEWELL, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented certain new and useful Improvements in Automatic Fountains for Pasting-Machines, of which the following is a specification.

My invention relates to an improved fountain for feeding or supplying paste, ink, or other liquid substances in labeling-machines, printing-machines, and other machines and apparatus wherein a coating of liquid is to be applied to surfaces; and it consists in certain novel construction and combination of hopper, box, or receptacle and distributing and feeding rollers, as hereinafter more particularly described.

In the following description I explain the nature of my invention and the manner in which I have constructed and applied the same for operation in a can-labeling machine; but the application of the device to other machines where the same parts are adapted to supply and distribute paste or ink or other liquids can be readily made by a skilled workman without further explanation.

The accompanying drawings, forming part of this specification, represent, in Figure 1 a, side elevation of the principal portion of a can-labeling machine with my improved device arranged to paste the body of the can before the labels are wrapped. Fig. 2 is a side view of the paste-box, on an enlarged scale, with the lower part of the box in section. Fig. 2^a is a sectional view showing the position of the parts when the roller is taking the liquid. Fig. 3 is a top view of Fig. 2.

A indicates a box or receptacle with a bottom formed of a flat or horizontal part a and an inclined or sloping part a^2 . An opening in the flat bottom extending across the receptacle is fitted with a trap-door or section B, that is hinged to the stationary bottom at one side and is beveled along the edge a^3 of the bottom. The part B fits closely against the upright sides of the box, and the opening produced between these beveled edges when the part B is raised is the outlet for the paste. Its size or area varies from a fine slit to a wider aper-

ture, according to the extent of lift or upward movement of the part B.

D is a roller journaled in swinging arms D' under the paste-box and having limited vertical movement to yield or rise as the body of the can strikes and passes under it.

E is a roller bearing upon the top of the roller D and mounted in swinging arms E' to rise and drop. It is placed directly under the outlet-aperture to receive the paste from the box above and to distribute the paste upon the surface of the roller D. It is therefore set parallel with and directly under the outlet between the beveled edges a^3b , and is held against the larger roller by spring F, attached to the arms of the two rollers to rise and fall together. The rollers rise to a sufficient extent to make the distributing-roller strike and raise the hinged bottom, and such movement is produced by the cam coming in contact with and lifting the large roller. The springs G, applied to the large roller, act to hold it down against the can with suitable pressure to produce rolling contact.

To vary the size of the paste-outlet, an adjustable stop H, formed of a short screw with an enlarged head, is fixed to the under side of the part B, directly over the roller. By changing the length or amount of projection of this stop the part B is lifted a greater or less distance, according to the quantity of paste to be supplied to the roller.

Springs p may be applied against the upper side of the bottom to secure a quick drop or closing movement as the roller leaves the stops; but the same effect can be obtained by substituting a weight for the spring, or in most cases the weight of the liquid will be sufficient for that purpose.

As thus constructed and arranged for operation, the invention will be found of great utility in all kinds of work where paste can be applied or distributed by a roller. The fountain is well adapted, also, to supply and distribute ink in printing-machines and to feed other liquid substances and compounds in machines or apparatus of various kinds.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The herein-described fountain for supplying paste and other liquid substances to a roller for distribution, consisting of the box or receptacle A, having an opening in the bottom, the hinged and inwardly-opening bottom B, having a beveled front edge fitted to a corresponding beveled edge of the opening, a supply-roller arranged under the line of separation between the said beveled edges, and a distributing-roller adapted to travel in contact with the supply-roller, said rollers having vertical movement to lift said hinged bottom and open the outlet, substantially as described.

2. In combination with the box or receptacle adapted to contain a liquid, as paste or ink, for distribution, having an opening in the bottom, the movable bottom B, hinged or pivoted at one side, having a beveled edge fitting to a corresponding edge in the opening to make a close joint, the rollers D E, arranged for operation under the joint or line of separation

between the said beveled edges and capable of vertical movement, as described, and the adjustable stop H on the hinged bottom, arranged for operation as set forth.

3. In a fountain for supplying paste and other liquids, the box or receptacle having a hinged and inwardly-opening bottom or section B with a beveled front edge, and a stationary part or section having a correspondingly-beveled edge on which the beveled edge of the hinged bottom is seated to form a close joint when the bottom is closed, in combination with a spring for holding the same normally closed, and a swinging roller having intermittent pressure against the hinged bottom to open the same, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

CHAS. E. NEWELL. [L. S.]

Witnesses:

WM. MAYER,

EDWARD E. OSBORN.