

No. 673,585.

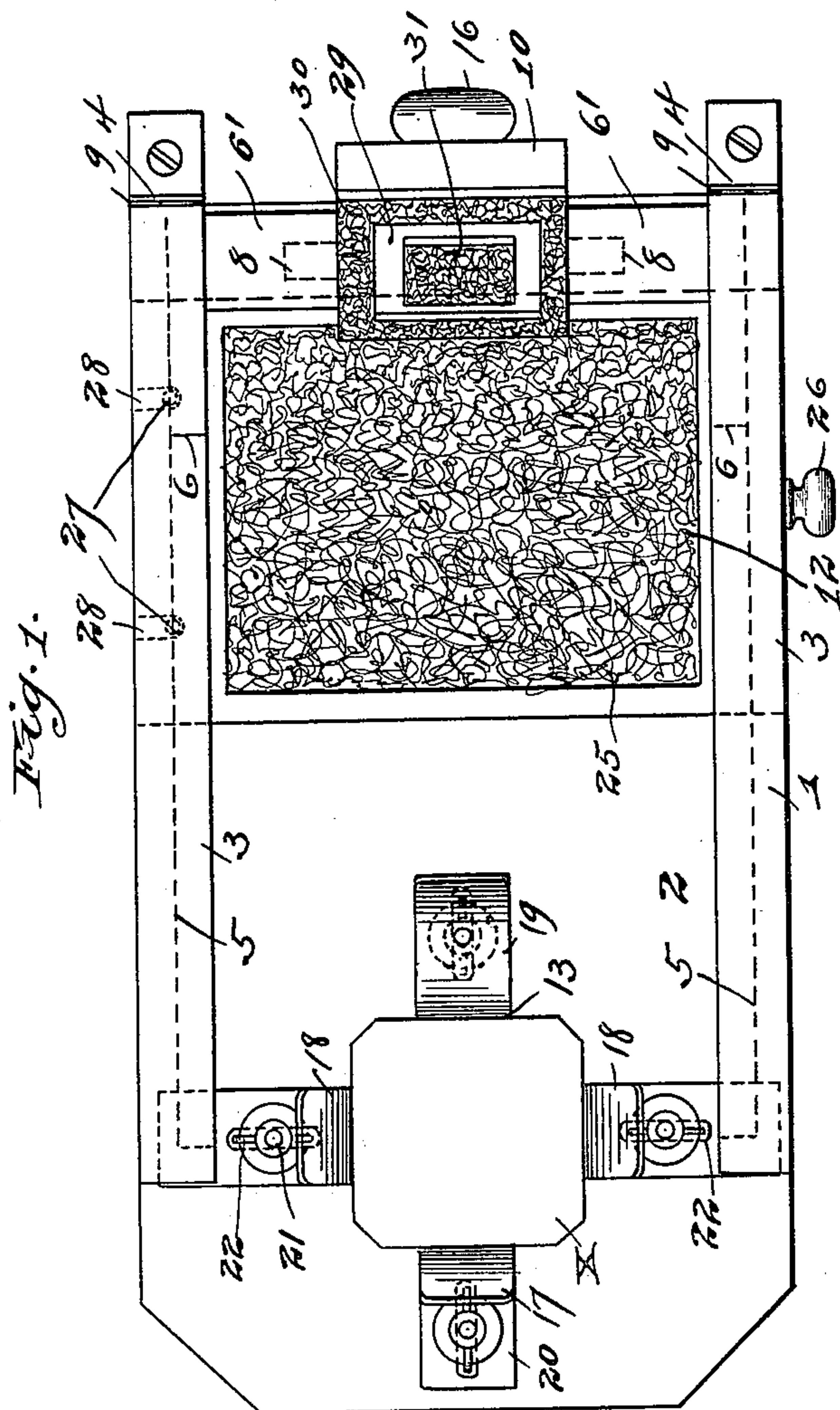
Patented May 7, 1901.

E. E. ROTHCHILD.
LABEL PASTING MACHINE.

(Application filed May 28, 1900.)

2 Sheets—Sheet 1.

(No Model.)



Witnesses,

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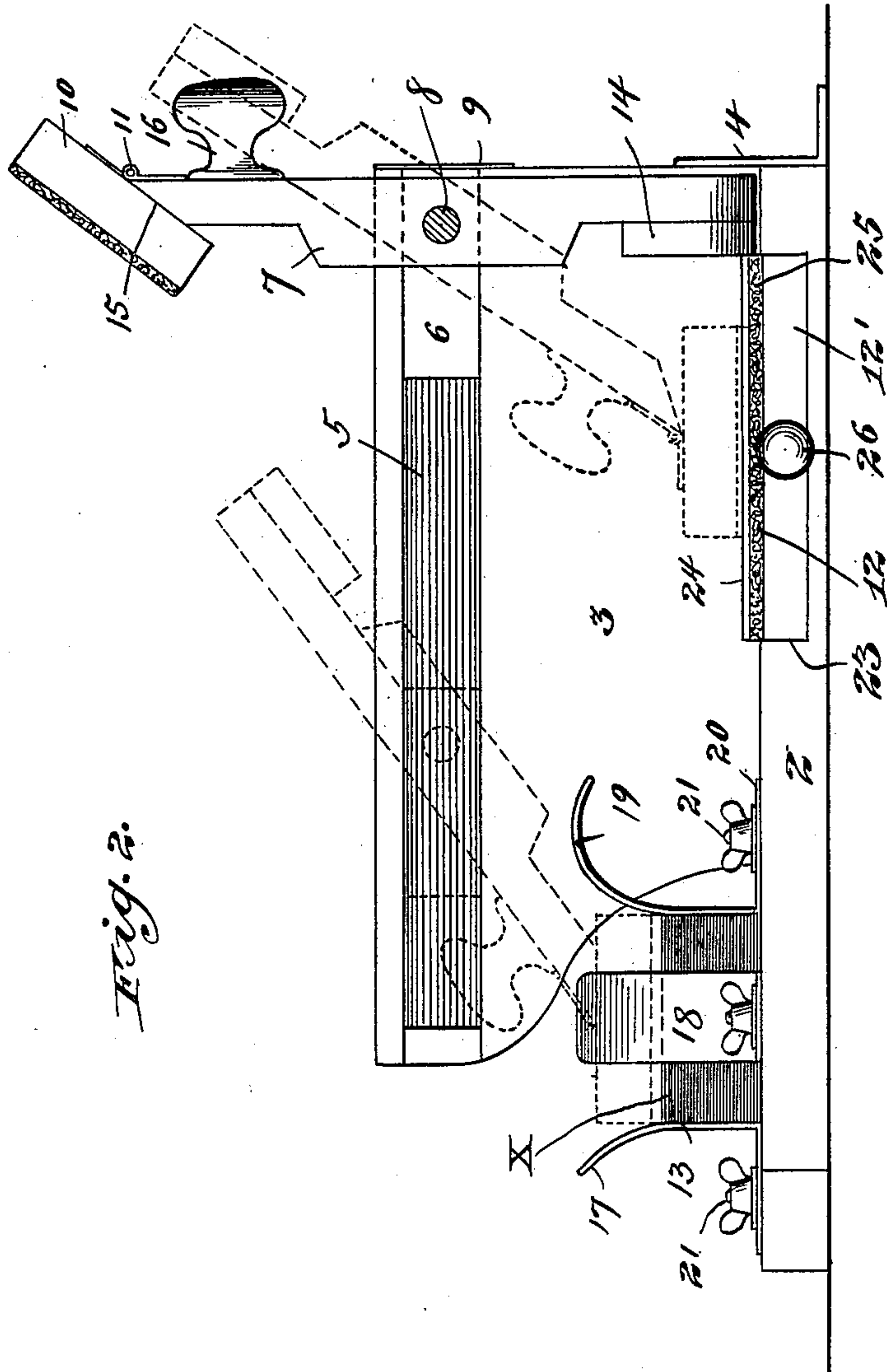


Fig. 2.

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UNITED STATES PATENT OFFICE.

ERNEST E. ROTHCHILD, OF NEW YORK, N. Y., ASSIGNOR TO THE CONTINENTAL BISCUIT COMPANY, OF JERSEY CITY, NEW JERSEY, AND CHICAGO, ILLINOIS.

LABEL-PASTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 673,585, dated May 7, 1901.

Application filed May 28, 1900. Serial No. 18,241. (No model.)

To all whom it may concern:

Be it known that I, ERNEST E. ROTHCHILD, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Label-Pasting Machines, of which the following is a specification.

This invention relates to improvements in label-pasting machines, and refers more specifically to a machine of a type adapted to facilitate the coating of labels with paste preparatory to applying the same to a package or the like manually.

Among the objects of the invention are to provide a simple convenient device of the character referred to which may be operated with extreme rapidity, which will serve to apply the paste to the labels in a most cleanly and effective manner, and which is extremely uniform and certain in its action, thereby practically avoiding all waste by improperly or insufficiently coating the labels; to provide a machine of such construction that the label will be automatically presented in a position most convenient for removal and transfer to the package; to provide means for most conveniently renewing the supply of paste; to provide means for adjusting the machine to labels of different sizes and shape, and in general to provide a machine having improved details of construction.

The invention consists in the matters hereinafter described, and more particularly pointed out in the appended claims, and the same will be readily understood from the following description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a preferred embodiment of my invention; and Fig. 2 is a side elevation of the same with one of the side frame members removed, together with the supporting-slide mounted to reciprocate upon said side member, the pivot-support of the dauber upon that side toward the observer being shown in vertical section.

Referring to said drawings, 1 designates as a whole a suitable frame upon which the operative members of the device are mounted, said frame comprising a base 2, substantially rectangular in form in the present instance,

and two parallel side frame members 3, mounted to extend along the side margins of the base, as best indicated in Fig. 1. Conveniently the frame is provided with a plurality of brackets 4, whereby it may be secured rigidly to any suitable support to prevent its movement when the machine is operated.

Within the proximate side faces of the side frames 3, adjacent to the upper edges thereof, are formed parallel ways or guide-grooves 5, and within these ways are mounted to reciprocate slide-blocks 6, each provided with a right-angled outwardly-projecting arm 6', the two arms forming supports for a dauber, (designated as a whole 7,) which is pivotally mounted between the ends of said arms upon a pivot-bolt 8, extending through the body of the dauber at a point intermediate of its length and into the ends of the respective arms. The grooves or ways 5 are desirably, and as shown herein, closed at both ends, so as to prevent the slide-blocks from passing out of engagement therewith, the rear ends of said grooves being closed by means of plates 9, removably applied to the end margins of the side walls over the ends of the grooves, so that in case it be desired to remove the slide-blocks for repair or renewal this may be readily accomplished by removing said plates.

In the preferred embodiment shown herein the dauber 7 consists of a bar-shaped member pivoted about midway of its length and provided at one end with a pad-block 10, which is united thereto by means of a hinge connection 11, which permits the pad-block to adjust itself to the moistening-surface or paste-pad, (indicated at 12,) mounted upon the base adjacent to one end thereof, and similarly to adjust itself to the labels contained in the label-holder, (indicated at 13,) mounted adjacent to the opposite end of the base.

Means are provided for causing the dauber to assume a vertical or approximately a vertical position, with the pad-block uppermost, automatically when it is released or permitted to assume this position, such means consisting desirably, and as shown herewith, in a weight 14, applied to the end of the dauber opposite that to which the paste-pad is ap-

plied, and in order that the pad may assume a position most convenient for the removal of a label therefrom when the dauber is thus held in vertical position the end of the dauber-body adjacent to the point at which the pad is hinged thereto is inclined or beveled, as indicated at 15, so as to hold the pad in a correspondingly-inclined position.

In order to enable the dauber to be manipulated conveniently, it is provided adjacent to its pad-supporting end with a knob or handle 16.

In the improved construction shown herein the label-holder is formed by means of a plurality of upstanding metal fingers 17 18 19—four in the present instance—each provided with an angular base portion 20, adapted to rest upon the upper surface of the base and secured thereto by means of thumb-screws 21. In order that the said fingers may be adjusted toward and from each other to accommodate labels of different sizes, the several base portions 20 thereof are slotted longitudinally, as indicated at 22. The upper ends of the several fingers are curved outwardly or divergent from each other to facilitate the entrance of the dauber-pad therebetween, and in order to form a guide which will serve to more readily direct the dauber-pad into the label-holder that one of the fingers 19 which extends toward the end of the machine containing the paste-supply pad 12 is extended horizontally some distance, as indicated clearly in Fig. 2.

As a further feature of improvement I so construct the paste-supply pad 12 that the same may be readily removed from its place within the machine either for the purpose of replenishing the supply of paste or otherwise. To this end the upper surface of the base 2 is provided with a transversely-extending recess 23, adapted to receive the base portion 12' of the paste-pad, and the lower edges of the side frame members 3 are correspondingly recessed, as indicated at 24, where they overlie the paste-pad, so as to accommodate the latter with its felt or other absorbent covering 25, which is arranged to rise above the inner surface of the base, as indicated clearly in Fig. 2. For convenience of manipulation said base-pad 12 is provided with a knob or handle 26 at one end, and at its opposite end is adapted to engage stops or pins 27, which serve to limit its inward movement. In order that the end of the pad which engages the stops may extend out substantially flush with the outer surface of the side frame, it is slotted, as indicated at 28, so as to permit its end margin to pass beyond the said stop-pins a distance equal to the depth of said slots.

In order that the action of the dauber-pad may be more uniform in distributing the paste upon the labels and that there may be no tendency in operating the apparatus rapidly of the air which may be trapped between the face of the dauber-pad and the face of the label to prevent a proper coating of the latter

with paste, I form the face of the dauber-pad with recesses or cavities 29, said cavities being conveniently formed by applying the felt or other absorbent covering which forms the operative portion of the face of the pad to parts only of the surface, as best indicated in Fig. 1. In the present instance the felt is applied to a marginal strip extending entirely around the pad, as indicated at 30, and to the central portion thereof, as indicated at 31, an intervening channel or cavity 2 being thus formed.

The operation of the device constructed as described will probably be entirely obvious from the foregoing description, but may be briefly described as follows: A suitable supply of labels, as indicated at *x*, having been placed in the label-holder with their inner or back sides uppermost and the paste-supply pad removed, saturated with paste, and returned to its place, the machine is operated by grasping the dauber by means of its handle and tilting it down into position to bring the pad thereof into bearing with the paste-pad, as indicated clearly in dotted lines at the right-hand end of Fig. 2. Without changing his hold upon the handle the operator raises the end of the dauber into an approximately horizontal position and slides it forward upon the ways of the frame until it is brought into position to register with the label-holder, whereupon he again depresses it into contact with the uppermost label, its adjustment to this position being facilitated by the guide formed by the rearwardly-projecting end of the finger 19. The adhesiveness of the paste upon the dauber-pad causes the latter to adhere to the label sufficiently to pick it up when the dauber is allowed to assume a vertical position, as it tends to do by gravity as soon as the operator permits it to rise. With the dauber thus extending in vertical position the label is brought into a most convenient position to be removed from the pad and applied to a package. Ordinarily the operator will hold the package to which the label is to be applied in his left hand, while with his right hand he will operate the dauber and remove the label and place it upon the package.

The advantages of the use of the present machine will be more apparent by a brief description of the method now commonly employed in pasting labels and which method the present machine is designed to supersede. In carrying out the old method a suitable table or flat surface is covered with a coat of paste by means of a brush. The operator then takes a handful of labels and spreads them over this surface one by one right side up, after which, the moistened surface having been thus substantially covered, he applies a single large sheet of paper over the labels and brushes or presses down the same with the palm of the hand, so as to insure all of the labels being forced into intimate contact with the paste. This done, he removes

the large sheet of paper and thereafter picks up the labels one by one and applies them to the packages.

From the foregoing description it will be obvious that a machine embodying my invention possesses numerous advantages, among which may be mentioned the following: By reason of the perfect control which the operator has over the dauber each label will be properly coated and by the use of a minimum amount of paste, while the method of operation is such that there is little or no liability of destroying or improperly coating labels, so that waste is reduced to a minimum. The operation is obviously cleanly, the operator being required to touch the label only when removing it from the dauber and applying it to the package and then only in a manner not likely to besmear his fingers or the package to which the label is applied. It is to be further noted that the labels are each coated separately and then immediately applied to the package before the paste has either had time to dry or to soak into the label to such an extent as to render the latter limp and less adhesive, whereas by the old method, hereinbefore described, the labels are coated in batches, and in case of interruption of the operation for any considerable period of time whatever labels happen to be upon the paste-board are likely to become dried fast and spoiled. Not only are the labels thus applied in better condition and with less loss, but the machine so facilitates the coating of the labels that the operation is very much more rapid than by the use of the old method.

While I have herein described what I deem to be a preferred embodiment of my invention, yet it will be obvious that the details thereof may be modified to some extent without departing from the invention. I do not therefore wish to be limited to the precise details shown, except as the same are made the subject of specific claims.

I claim as my invention—

1. A manually-operable label-pasting machine, comprising a frame, a label-holder and a paste-pad mounted at separate points upon said frame, a dauber movably supported upon the frame and a weight or equivalent acting

on the dauber to cause it to automatically assume a position convenient for the manual removal therefrom of the label and against the tension due to which weight the dauber must be forced in applying it to the paste-pad.

2. A label-pasting machine comprising a base, an open-topped label-holder and paste-pad mounted upon said base, a manually-operable dauber mounted to reciprocate between the label-holder and paste-pad, and means acting upon the dauber to cause the end thereof supporting the paste-pad to assume an uplifted position automatically when released.

3. A label-pasting machine comprising a base, parallel side frame members, an open-topped label-holder and paste-pad mounted upon said base between said side members and at an interval apart, ways upon said side frame members and a dauber mounted to reciprocate upon said ways, said dauber consisting of an elongated body pivotally mounted between its ends and provided at one end with a paste-pad, whereby it may be alternately applied to the paste-pad and to labels within the holder.

4. A label-pasting machine comprising a base, parallel side frame members, a label-holder and a paste-pad located upon the base, ways upon said side frames and a dauber mounted to reciprocate upon said ways, said dauber consisting of an elongated body pivotally mounted between its ends and provided at one end with a paste-pad flexibly united thereto, and means acting upon said dauber to cause the end thereof carrying the paste-pad to normally assume an uplifted position.

5. In a label-pasting machine, the combination with the base, the side frame members having grooves or ways, and the dauber provided with the flexibly-attached dauber-pad and pivotally mounted to reciprocate upon said ways, of the upstanding curved and extended label-holding finger 19 adapted to guide the dauber-pad into the label-holder, substantially as described.

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