

UNITED STATES PATENT OFFICE.

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PASTING-BOX.

SPECIFICATION forming part of Letters Patent No. 786,975, dated April 11, 1905.

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To all whom it may concern:

Be it known that I, HERBERT G. LA SOR, a citizen of the United States, and a resident of the city of Washington, in the District of Columbia, have invented a new and useful Improvement in Pasting-Boxes, of which the following is a specification.

My invention relates to an improvement in pasting-boxes, the object being to provide a device for automatically applying paste to mailing-wrappers, labels, and similar articles; and it consists, mainly, in a base upon which the sheets are supported and a hopper which rests upon the pile of sheets and which has an adjustable valve in its throat adapted to be set to deposit the requisite amount of paste upon the uppermost sheet, the hopper being mounted on piling-bars in such a manner that it is supported upon the sheets and descends as the uppermost sheets are successively withdrawn, depositing the paste upon the end of the sheet.

My present invention also comprises means for regulating the size of the opening to the width of sheet; and it further consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view, Fig. 2 is a plan view, Fig. 3 is a view in perspective, Fig. 4 is a detached view in perspective, of the regulating-valve, and Fig. 5 is a section on line 5 5 of Fig. 2.

A represents the base of the pasting-box, and 1 1 are piling-bars screwed or otherwise secured to the base at the forward end thereof. These piling-bars serve a double function, the first of which is to afford support for the hopper and the second a means against which the edges of the sheets are piled and from which function they derive their name. Two only of these piling-bars are shown, although it is obvious that more might be employed.

B is the hopper, and it comprises the ends 2 and 3, the front plate 4, and the sloping bottom 5, and the lower edges of the front and bottom terminate a suitable distance from each other to afford an outlet for the paste contained within the hopper. This

outlet or mouth 6 has a valve 7 therein which controls it and determines the size of the outlet, and the lower edge of the bottom plate is concentric with the axis 8 of the valve, as shown at 9, whereby to fit the curved surface 10 of the valve, and thereby prevent leakage at that point, while the rear edge of the lower end of the front plate is ground to accurately fit and parallel the forward edge of the curved valve, so that the size of the outlet may be regulated according to the quantity of paste or width of pasted area to the sheet. As a simple means for regulating the size of the opening the axis of the valve is provided at one end with an arm 22, and a pair of set-screws 11 and 12, turning in threaded holes 13 13 in lugs 14 14 on the end plate 2, abut against the upper and lower surfaces of this arm, whereby it is simply a matter of their manipulation to adjust and lock the valve. The front plate is provided with holes formed in the ears 15 15, (see Figs. 2 and 3,) which receive the piling-bars, whereby the hopper is mounted thereon.

As a means for supporting the hopper in an elevated position when replenishing the hopper with paste or the machine with paper or, in fact, when not actually performing the pasting function, the spring-actuated pins 16 16 are arranged to slide in holes provided for them in the front plate and to drop into notches 18 18 when the hopper is elevated to a point where the pins reach said notches. To lower the hopper, the pins are pulled outward against the action of the spring, and the hopper is permitted to rest upon the pile of sheets.

To adjust the length of opening to the width of the sheets being operated upon, strippers 19 19 are provided, these being arranged to slide or be adjusted in and out upon the dovetailed guides 20 20, located at the lower corners of the front plate 4. The rear ends of the strippers are concentric with the curvature of the valve, and they are adapted to rest upon the edges of the sheets or at the edges of the sheets, whereby to close the opening at that point, or, in other words, to adjust its length to the width of the sheets.

An additional piling-bar 21 may be adjust-
ably connected with one of the side edges of
the base as an additional means for gaging
the paper, this being set in alinement with
5 the inner edge of one of the strippers, where-
by to determine the position of the sheets
upon the base.

From the foregoing it will be understood
that the sheets to be pasted are placed upon
10 the base against the several piling-bars, the
hopper is supplied with paste, and the valve
adjusted to suit the requirements, as well as
the strippers set to the width of the sheets.
Then the hopper is lowered until it rests upon
15 the paper, whereupon the sheets are drawn
out one at a time, the hopper following them
down as fast as the sheets are removed and
always resting upon the edge of the upper-
most sheet.

20 It is evident that a great variety of uses
are open to a device of this character and
also that many slight changes might be made
in the form and arrangement of the several
parts described without departure from the
25 spirit and scope of my invention as defined
by the claims, and hence I do not wish to
limit myself to the exact construction herein
set forth; but,

Having fully described my invention, what
30 I claim as new, and desire to secure by Let-
ters Patent, is—

1. The combination with a suitable base
having vertical guides, a paste-receptacle
slidably mounted thereon, the paste-recep-
35 tacle provided with a permanent slotted
opening, of means for regulating the length
of the slot, an oscillatory curved device for
regulating the width of the slot, the means
for regulating the length of the slot compris-
40 ing dovetailed guides located on the paste-re-
ceptacle, and strippers carried by the guides,
the strippers provided with grooves engag-
ing the guides, the rear ends of the strippers
formed concentric with and frictionally en-
45 gaging the curved oscillatory device, the
strippers movable lengthwise of the slot.

2. The combination with a suitable base,
having vertical guides, a paste-receptacle
slidably mounted on the guides and provided
50 with a permanent slotted opening, of an os-

cillatory member for regulating the width of
the opening, the member comprising a con-
cavo-convex gate journaled within the paste-
receptacle, the lower edge of the gate located
55 in horizontal alinement with one edge of the
slotted opening, an arm rigidly secured to
one of the journals, lugs mounted on the re-
ceptacle and set-screws carried by the lugs
and adapted to engage the arm from opposite
60 directions.

3. In a pasting-box, the combination with
a suitable base for receiving the sheets of
material, of a plurality of piling-bars extend-
ing above the base, a paste-holding recepta-
65 cle slidably mounted on the bars, and pro-
vided with a discharge-outlet, the receptacle
normally resting and supported upon the up-
permost sheet, the bars provided with notches
or recesses, and means carried by the paste-
holding receptacle adapted to be removably 70
received in the notches or recesses, to retain
the receptacle in elevated position above the
sheets.

4. In a pasting-box, the combination with
a base for receiving the sheets of material to 75
be pasted, of a suitably-mounted paste-hold-
ing receptacle normally freely slidable to-
ward and from the base, the receptacle pro-
vided with a paste-discharging outlet, means
for closing this outlet, and releasable means 80
for retaining the receptacle in elevated posi-
tion above the sheets.

5. In a pasting-box, the combination with
a base upon which are piled sheets of mate-
85 rial to be pasted, of a bar carried by the base
and provided with a notch, a paste-holding
receptacle slidably mounted on the bar, and
provided with a discharge-outlet, means for
closing the outlet and a spring-actuated pin
90 carried by the receptacle and adapted to en-
gage the notch to retain the receptacle in ele-
vated position above the piled sheets.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

HERBERT G. LA SOR.

Witnesses:

HERBERT C. EMERY,
VERNON E. HODGES.