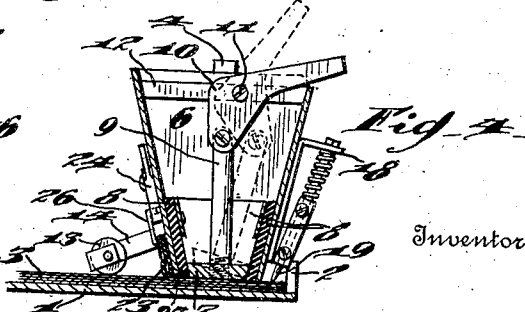
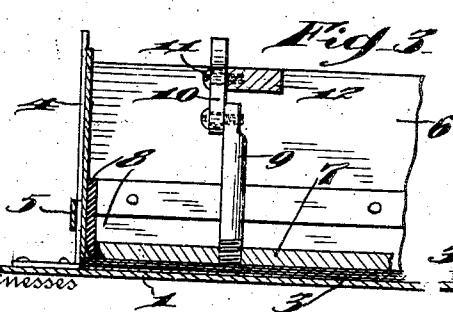
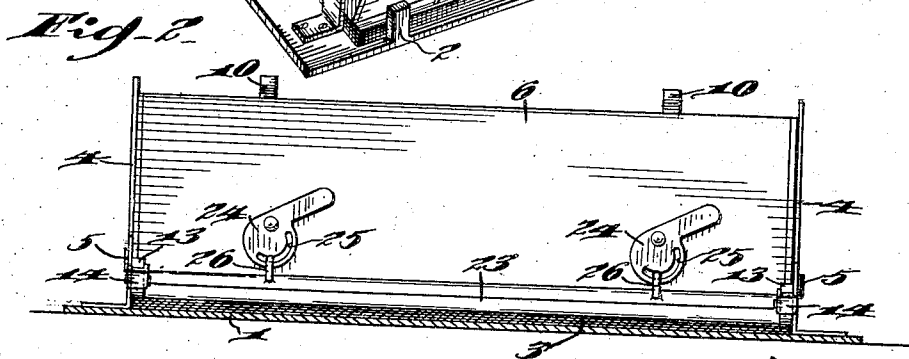
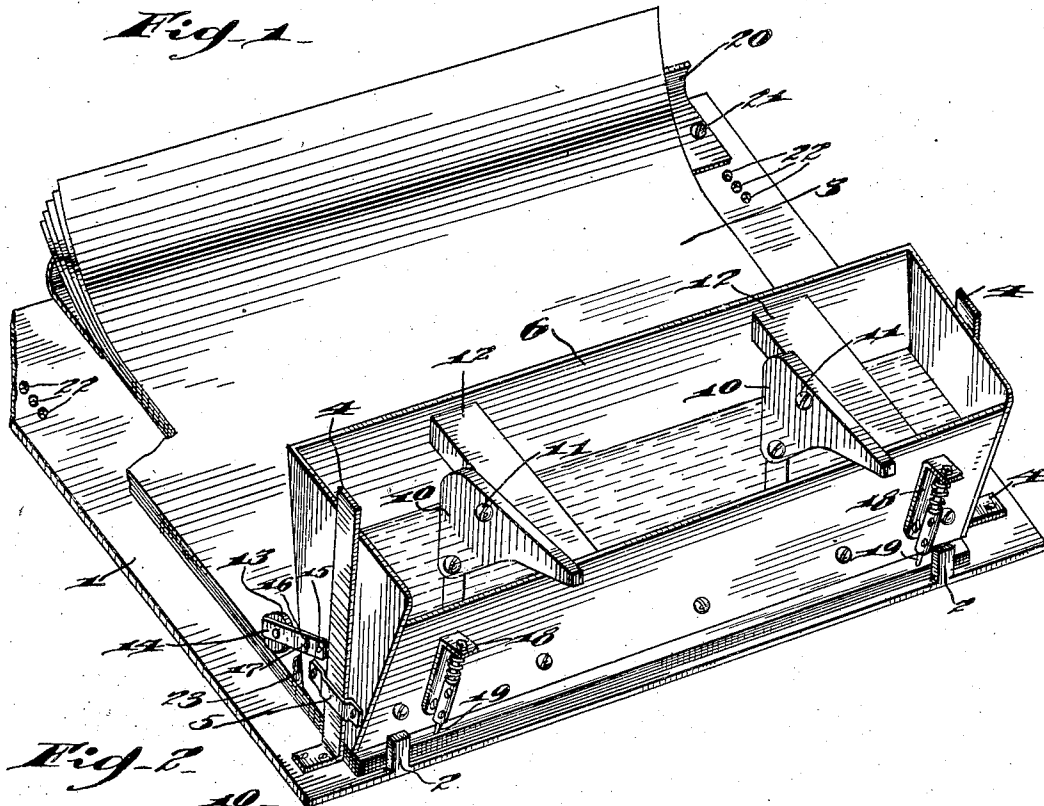


J. J. SLEEPER.
WRAPPER PASTING DEVICE.
APPLICATION FILED JUNE 10, 1911.

1,033,282.

Patented July 23, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH J. SLEEPER, OF MOORES, PENNSYLVANIA.

WRAPPER-PASTING DEVICE.

1,033,282.

Specification of Letters Patent.

Patented July 23, 1912.

Application filed June 10, 1911. Serial No. 632,367.

To all whom it may concern:

Be it known that I, JOSEPH J. SLEEPER, a citizen of the United States, residing at Moores, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Wrapper-Pasting Devices, of which the following is a specification.

My invention relates to improvements in wrapper pasting devices, the object of the invention being to provide a device of this character which will supply paste to sheets as they are drawn one after another from the pile ready for wrapping.

A further object is to provide an improved construction of paste supplying trough with an improved bottom, and operating means therefor to regulate the flow of paste onto the paper below, and provide improved means for mounting the trough, and holding the paper in position to receive the paste.

A further object is to provide an improved construction of this character which enables sheets to be supplied with paste as rapidly as they are used, and regulate and control the supply of paste to exactly suit conditions.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings: Figure 1, is a perspective view partly broken away, illustrating my improvements. Fig. 2, is a view in cross section through the base plate showing the trough in front elevation. Fig. 3, is a fragmentary view in longitudinal section through one end of the device, and Fig. 4, is a fragmentary view in section showing the trough in cross section.

1, represents a base plate which is provided at one edge with upwardly projecting lugs 2, against which the pile of sheets 3 is adapted to be alined. At this end of the base plate, standards 4 are secured, and metal straps 5 on the ends of my improved trough 6 receive these standards 4, and are adapted to move vertically thereon, feeding the trough downwardly as the pile of sheets becomes thinner. The trough 6 is adapted to contain paste, and is provided with a movable bottom 7, which controls the outlet of the paste. The bottom 7 is positioned inside of a relatively thick lining 8 of rub-

ber or other suitable material, which forms a tight closure when the bottom is in closed position. The bottom 7 is connected by rods 9 with eccentric levers 10, and the latter are pivotally connected by screws 11 with cross bars 12 on trough 6. By reason of this particular form of operating means for the bottom, it will be noted that when the parts are moved to the position shown in dotted lines in Fig. 4, the bottom will be elevated at its forward edge only, thus allowing the paste to feed through a relatively restricted outlet, while the bottom still supports the main body of the paste. This is also an advantage in closing the trough, because when the bottom is forced downwardly, the superfluous paste below the bottom is squeezed up into the trough, and not outside of the trough as would otherwise be the case.

It will be noted that the forward edge of the trough is slightly higher than the rear edge as shown at 27, so that while the sheets may be readily drawn from under the trough, the rear wall and ends of the trough prevent the paste from feeding backwardly.

To assist in supporting the weight of the trough, and preventing any binding of the same on the paper, rollers 13 are secured in arms 14, and the latter adjustably secured to the ends of trough 6. These arms are pivotally connected at one end by means of screws 15, and are provided between their ends with slots 16, through which screws 17 project, and are screwed into the end of the trough. By this means, the rollers may be variously positioned so as to properly support the weight of the trough on the paper, but allow the paper to be readily pulled from under the trough.

On the back wall of the trough, angle brackets 18 are secured. These angle brackets support spring-pressed pins 19, which project into the paper, and prevent the withdrawal of more than a single sheet at a time. These pins 19 project through a plurality of the sheets at the top of the pile, and when a single sheet is grasped and pulled off the pile, the other sheets below will be maintained in alinement.

To facilitate the grasping of a single sheet, a bent plate 20 is secured to base plate 1 by means of screws 21, and the base plate 1 is provided with a plurality of screw-threaded openings 22, into any of which the said screws 21 may be positioned to hold the plate 20 in the desired location. This

bent plate serves to hold the sheets curved upwardly, and enables the uppermost sheet to be readily grasped.

To prevent superfluous paste from flowing 5 onto the paper, a wiper 23 is located at the front edge of the trough, and comprises a bent metal strip inclosing a flexible strip preferably of rubber, to wipe against the sheet of paper. Eccentric levers 24 are 10 mounted on the trough, and are provided with eccentric slots 25 into which links 26 on wiper 23 project. These eccentric levers afford a quick means for adjusting the wiper in accordance with the thickness of the 15 paste.

In operation, when the bottom 7 is in the position shown in dotted lines in Fig. 4, it is simply necessary to pull the successive sheets from under the trough, when they 20 will be ready for wrapping, having their end sections supplied with a coating of paste.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the 25 precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

30 Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A device of the character described, comprising a base plate, standards on the 35 base plate, a paste supplying trough, devices on the trough movable on the standards, a vertically movable bottom in said trough, cross bars on the trough, eccentric levers supported on said bars, and connected with said bottom, substantially as described. 40

2. A device of the character described, comprising a base plate, standards on the base plate, a paste supplying trough, devices 45 on the trough movable on the standards, a vertically movable bottom in said trough, cross bars on the trough, eccentric levers supported on said bars, and rods fixed to said bottom and pivotally connected to said 50 eccentric levers, whereby the movement of the levers in moving the bottom tilts the latter, substantially as described.

3. A device of the character described, comprising a base plate, standards on the 55 base plate, a paste supplying trough, devices on the trough movable on the standards, a bottom in said trough, means for raising and lowering the bottom to open and close the trough, and a lining of flexible material, secured to the inner face of the 60 trough, and positioned entirely around the edge of said bottom, substantially as described.

4. A device of the character described, 65 comprising a base plate, standards on the

base plate, a paste supplying trough, devices on the trough movable on the standards, a bottom in said trough, means for moving said bottom at an angle to partially 70 open the trough, and a lining of flexible material secured to the inner face of the trough, and positioned entirely around the edge of said bottom, substantially as described.

5. A device of the character described, 75 comprising a base plate, standards on the base plate, a paste supplying trough, devices on the trough movable on the standards, a bottom in said trough, means for raising and lowering the bottom to open and 80 close the trough, said means consisting of eccentric levers pivoted to the trough, and rods secured to the bottom and pivotally connected to said levers, substantially as described.

6. A device of the character described, 85 comprising a base plate, standards on the base plate, a paste supplying trough, devices on the trough movable on the standards, a bottom in said trough, means for 90 moving said bottom at an angle to partially open the bottom of the trough, said means consisting of eccentric levers pivoted to the trough, and rods secured to the bottom and pivotally connected to said levers, 95 substantially as described.

7. In a device of the character described, the combination with a base plate, lugs on one end of said base plate against which 100 sheets of paper are adapted to be alined, standards on the base plate, a paste supplying trough adapted to move vertically on said standards, a movable bottom in said trough, means for moving the bottom to 105 open and close the lower end of the trough, and arms adjustably secured to the trough, and rollers supported in said arms and resting on the paper, substantially as described.

8. In a device of the character described, the combination with a base plate, lugs on 110 one end of said base plate against which sheets of paper are adapted to be alined, standards on the base plate, a paste supplying trough adapted to move vertically 115 on said standards, a vertically movable bottom in said trough, cross bars on the trough, eccentric levers pivoted to the cross bars, rods connecting said levers and bottom whereby the movement of the levers moves 120 the bottom, and spring-pressed pins on said trough projecting into the paper, substantially as described.

9. In a device of the character described, the combination with a base plate, lugs on 125 one end of said base plate against which sheets of paper are adapted to be alined, standards on the base plate, a paste supplying trough adapted to move vertically on 130 said standards, a vertically movable bottom in said trough, cross bars on the trough,

eccentric levers pivoted to the cross bars, rods connecting said levers and bottom, whereby the movement of the levers moves the bottom, said trough being supported with its rear edge on the paper, and its forward edge elevated above the paper, and a wiper adjustably connected to said forward edge, substantially as described.

10 In a device of the character described, the combination : with a base plate, of a paste trough supported to move vertically on the base plate, said trough comprising four walls, and a vertically movable bottom contacting with the four walls, rods connected
15 at their lower ends to said bottom, and levers supported on said trough and pivotally connected to said rods, said bottom constructed to squeeze the paste forwardly as it is closed and also constructed to regulate the
20 feed of paste from said trough when in open position, substantially as described.

11. In a device of the character described,

the combination with a base plate, of a paste trough supported to move vertically on the base plate, said trough comprising four 25 walls, a vertically movable bottom contacting with the four walls, rods connected at their lower ends to said bottom, and levers supported on said trough and pivotally connected to said rods, 30 said bottom constructed to squeeze the paste forwardly as it is closed and also constructed to regulate the feed of paste from said trough, and said levers constructed to position said bottom at an angle when open, sub- 35 stantially as described.

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

JOSEPH J. SLEEPER.

Witnesses:

S. W. FOSTER,

R. H. KRENKEL.