Feb. 22, 1938. C. L. STRAETEN 2,108,929

PACKAGE PASTER

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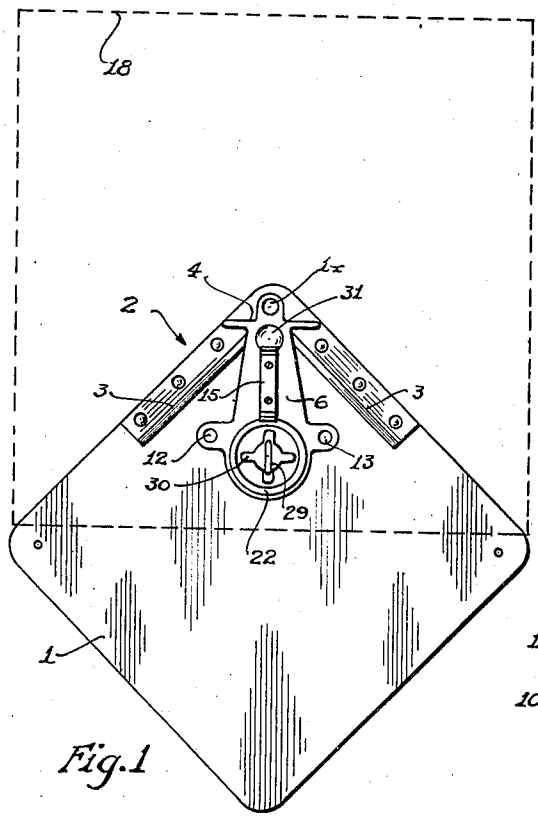


Fig. 1

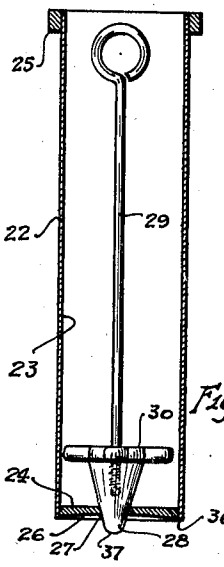


Fig. 4

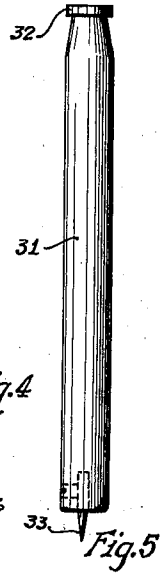


Fig. 5

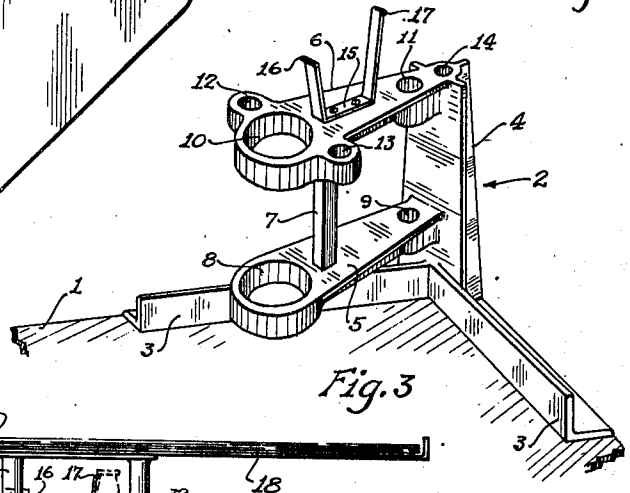


Fig. 3

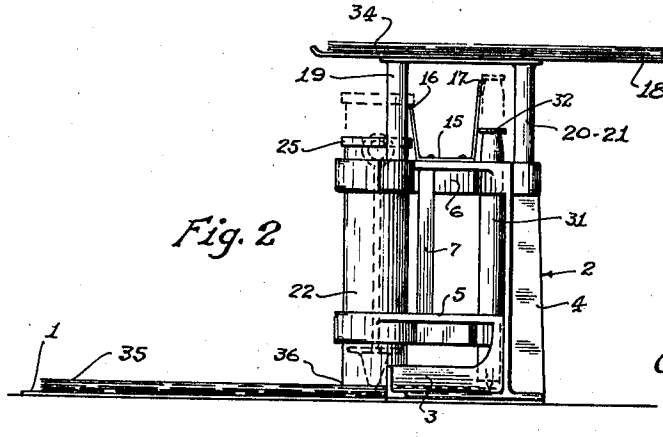


Fig. 2

ATTEST.

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UNITED STATES PATENT OFFICE

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PACKAGE PASTER

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Application December 16, 1936, Serial No. 116,212

6 Claims. (Cl. 93—68)

This invention relates to a wrapper pasting device.

One of the objects of the invention is to provide an economical, expeditious device for applying paste to sheets of paper incident to a wrapping operation.

Another object of the invention is to provide a novel paste well and applicator in a package paster.

Other objects of the invention will be apparent from the description and claims which follow.

In the drawing, similar reference characters in the several figures indicate similar elements.

Figure 1 is a plan view, being a preferred embodiment of the present invention.

Figure 2 is a side view of the apparatus shown in Figure 1.

Figure 3 is a perspective view of the frame casting which carries the essential elements of the device.

Figure 4 is a side view, partly in section, of the paste reservoir.

Figure 5 is a side view of the paper holder.

The apparatus of the present invention includes a base plate 1, to which is rigidly secured frame casting 2 more particularly shown in Figure 3, comprising angle iron feet 3, supporting post 4 provided with lower bracket 5 and upper bracket 6, strengthened by brace 7. Bracket 5 is provided with paste reservoir hole 8 and paper holder hole 9. Bracket 6 is provided with paste reservoir hole 10 and paper holder hole 11 and with tray leg holes 12, 13, and 14. Spring clip 15 is mounted upon bracket 6 and includes retainers 16 and 17. Tray 18 is provided with legs 19, 20, and 21. Paste reservoir 22 comprises cylinder 23, provided with bottom 24 and top flange 25. Bottom 24 of paste reservoir 22 is provided with an exterior concavity 26, and opening 27. Tapered plug 28 is adapted to cooperate with aperture 27 to provide a valve to permit paste to flow from cylinder 23, or be retained therein as desired. Plug 28 may be manipulated with handle 29, and is provided with arms 30 to assist in centering the plug in the cylinder and to stir paste. Paper holder 31 is provided with a top flange 32 and a pin 33.

In using the apparatus of the present invention in wrapping bulky packages, for example, hams in which an inside wrapper and an outside wrapper is employed, a supply of inside wrappers 34 is placed upon tray 18. Paste reservoir 22 is mounted on the frame through holes 10 and 8, and paper holder 31 is mounted on the frame through holes 11 and 9. A supply of outside wrappers 35 is placed on table top 1 in such manner that the bottom edge 36 of paste reservoir 22 rests on the top sheet of paper as shown in full line in Figure 2. The weight of paper holder 31 presses pin 33 into the top few sheets of paper 35 so that when a single sheet of paper is pulled from the pile, but one sheet will be taken. When paper is being placed on base plate 1, paste reservoir 22 and paper holder 31 are held by retainers 16 and 17 respectively in the dotted line position shown in Figure 2. The weight of plug 28 effectively closes the valve in the bottom of paste reservoir 22. Paper holder 31 is then dropped and reservoir 22 lowered in position. The tapered end 37 of plug 28 extends beyond the plane of the lower edge 36 of cylinder 23. Consequently, the valve is opened and paste permitted to pass therethrough, filling the space defined by the paper and the concavity 26.

In the wrapping operation in the case of hams, the product is first wrapped in an inside wrapper taken from pile 34 on tray 18. After a portion of the paper has been folded over the package, the top sheet of paper 35 is pulled from beneath paste reservoir 22, causing a streak of paste to be formed from the point of contact to the edge of the paper with which to seal the package. The size of the paste streak and the quantity of paste deposited may be controlled by varying the position of the reservoir with respect to the edge of the sheet of paper and by varying the size of concavity 26 which covers the quantity of paste deposited.

I claim:

1. A paste applicator comprising a base support, a paste reservoir slidably mounted for gravity movement toward said support, said reservoir having a concave face adapted to rest in contact with paper therebeneath, an outlet in said concave face, and a plug cooperative with the outlet in the concave face to provide a valve, said plug adapted to close said aperture.

2. In a paste applicator, a bracket provided with a paste reservoir adapted to rest by gravity upon paper positioned beneath, said reservoir provided with a bottom having an external recess therein, an opening in said bottom, a tapered plug mounted through said opening and extensible beyond the plane of the edge of said bottom, said plug being adapted to close said opening when the reservoir is raised from contact with the paper, and adapted to permit the flow of paste through said opening when the reservoir and the tapered plug are rested upon the paper.

3. In a paste applicator, a bracket provided with a paste reservoir adapted to rest by gravity

upon paper positioned beneath, said reservoir provided with a bottom having an external recess therein, an opening in said bottom, a tapered plug mounted through said opening and extensible beyond the plane of the edge of said bottom, said plug being adapted to close said opening when the reservoir is raised from contact with the paper, and adapted to permit the flow of paste through said opening when the reservoir and the tapered plug are rested upon the paper, and a paper holder comprising a weighted pin.

4. In a paste applicator, a bracket provided with a paste reservoir adapted to rest upon paper positioned beneath, said reservoir provided with a bottom having an external recess therein, an opening in said bottom, a tapered plug adapted to close said bottom when the reservoir is raised from contact with a bottom support, and adapted to permit the flow of paste through said aperture when the reservoir and the tapered plug is rested upon a plane support, and a paper holder comprising a weighted pin, and retainers to support said reservoir and said paper holder in an elevated position.

5. In a paper paste reservoir having side walls and a bottom provided with an external recess, an aperture communicating with said recess to the interior of said reservoir, and a plug mounted through said aperture to open and close said aperture.

6. In a paper paste reservoir having side walls and a bottom provided with an external recess, an aperture communicating with said recess to the interior of said reservoir, and a tapered plug mounted through said aperture to open and close said aperture, said plug being extensible beyond the plane of the bottom edge of said reservoir when the aperture is closed and adapted to provide an opening when the end of the plug and the edge of the reservoir are in the same plane.

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