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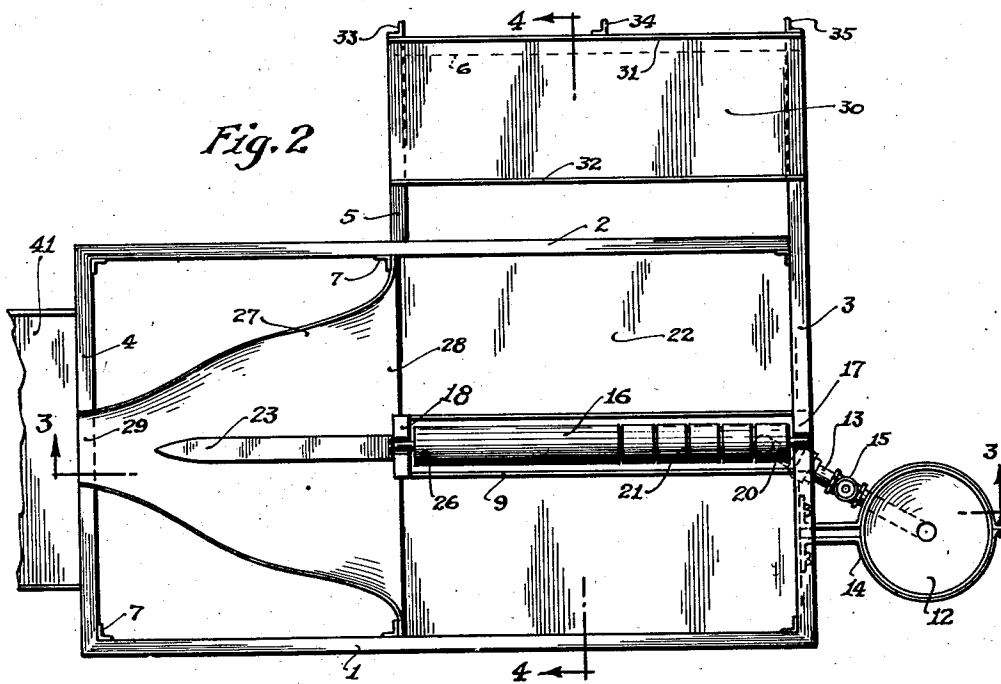
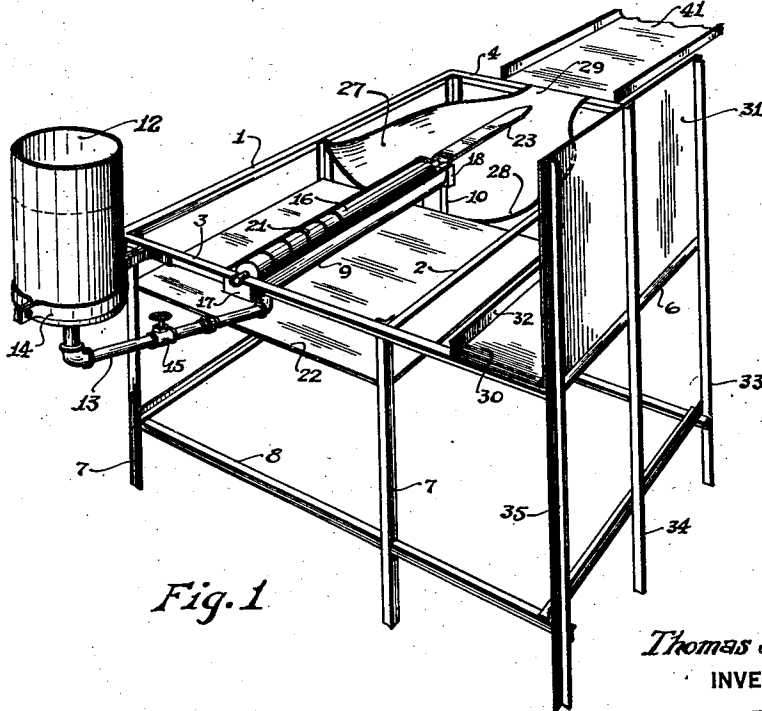
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2,176,122

PASTING DEVICE

Filed Jan. 6, 1938

2 Sheets-Sheet 1



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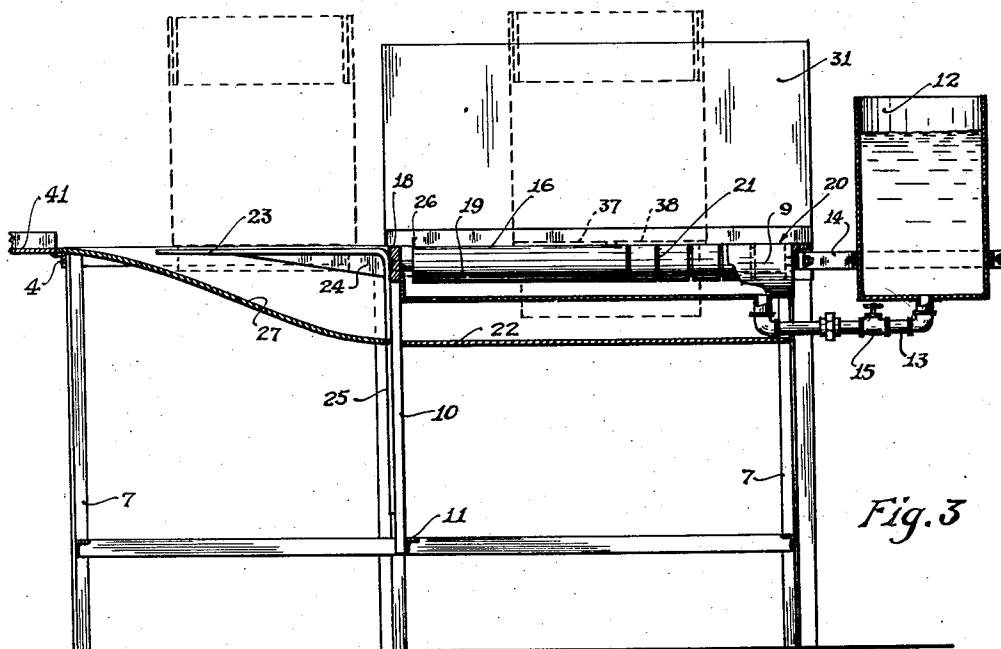
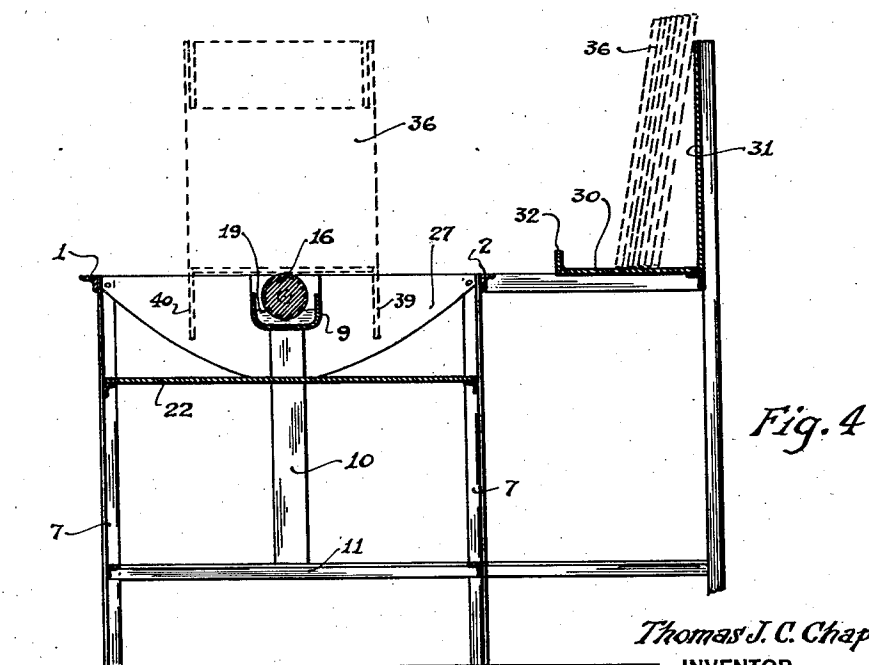
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PASTING DEVICE

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2 Sheets-Sheet 2



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2,176,122

PASTING DEVICE

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6 Claims. (Cl. 93—36)

This invention relates to an improved pasting device.

One of the objects of the invention is to provide an improved pasting device.

Another object of the invention is to provide an improved pasting device adapted for pasting, folding and sealing the ends of fiber board packing cases.

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

The device of the present invention is adapted for pasting, folding, and sealing the ends of fiber board packing cases, more especially the type of packing case formed of one piece, comprising side walls and end flaps extensible from each of the side walls. Usually the end flaps of opposing walls of packing cases of this character, when folded over, form an end closure approximately half of the folded length, the end flaps of one pair of opposing walls being folded over and secured against the folded end flaps of the other pair of opposing walls. It will be understood, however, that the device of the present invention is adaptable to packing cases having end flaps of greater or less extension and that the end flaps just described shall be considered as illustrative only and not as limiting the scope of the invention.

Reference is had to the drawings in which like characters of reference are used to designate similar elements.

Figure 1 is a perspective view illustrating a pasting device constructed in accordance with the present invention.

Figure 2 is a plan view of the device shown in Figure 1.

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 2.

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 2.

In the drawings the device of the present invention is shown mounted upon suitable framework comprising horizontal cross members 1, 2, 3, 4, 5 and 6 mounted upon standards 7, suitably braced by cross angles, such as 8.

Paste reservoir 9, comprising a substantially rectangular trough is rigidly secured between cross member 3 and riser 10, the riser 10 being rigidly secured to cross-angle 11. Liquid paste is supplied to reservoir 9 from supply tank 12 through line 13. Supply tank 12 is rigidly secured to cross member 3, as by bracket 14. In the device illustrated in the drawings the supply of paste to reservoir 9 is manually controlled through the medium of hand valve 15. It will be

understood that the supply of paste to reservoir 9 may be automatically controlled through the medium of a float valve or other suitable means.

Paste roller 16 is rotatably mounted in bearings 17 and 18, rigidly secured to cross member 3 and riser 10 respectively. Paste roller 16 is mounted to rotate within paste reservoir 9 and in a manner such that the lower rotating surface thereof passes below the normal paste level 19 in reservoir 9. Roller 16, adjacent its rearward end 20, is provided with a series of spaced transverse peripheral grooves 21.

Tray or apron 22 may be provided beneath reservoir 9 to catch fragments and drippings of paste. Ledge 23, reinforced by web 24, is welded or otherwise rigidly secured to riser 10, as by arm 25. Ledge 23 is extended forwardly of the forward end 26 of roller 16 and is secured substantially in alignment with the uppermost surface of roller 16.

Baffle 27, of substantially semiconical formation, is rigidly secured between cross members 5 and 4, below ledge 23 and to either side of ledge 23. Baffle 27 commences at a relatively large substantially semicircular end 28 and tapers inwardly and upwardly to a relatively small flat end 29.

Carton blank supply rack 30 provided with rear wall 31 and retaining ledge 32 is rigidly secured between cross members 3 and 5 and standards 33, 34, and 35.

In use an operator standing in the corner defined by cross members 2 and 5 lifts one of the supply of carton blanks 36 from rack 30 and presses it at its folded ends so that the side walls and corresponding end flaps open to a substantially rectangular formation. The partially formed carton is then grasped by the operator at approximately the top edge so that the side walls and end flaps are each held in a substantially vertical position and so that two of the opposing end flaps 37 and 38 are held substantially transversely of paste roller 16 and the remaining end flaps 39 and 40 are held substantially longitudinally of paste roller 16.

The operator then moves the partially formed carton blank 36 down onto roller 16 with a slightly drawing movement toward the end 26 of roller 16 in a manner such that flap 37 will strike the ungrooved portion of roller 16 and be folded inwardly.

The carton 36 is then given a slight backward movement toward the end 20 of roller 16, whence the end flap 38 is seated within one of the grooves 21 and is folded inwardly toward the end flap 37. The carton 36 with the end flaps 37 and 38

each resting against the surface of roller 16, is then moved from side to side transversely of roller 16, sufficient pressure being applied such that roller 16 will be rotated and thus apply a film of paste to the contacting surfaces of flaps 37 and 38.

Carton 36 is then moved toward end 26 of roller 16 and over ledge 23 and onto packing table or conveying means 41. In the movement of carton 36 over ledge 23 the end flaps 39 and 40 are moved against baffle 27, whence they are folded inwardly and upwardly against the paste covered surfaces of end flaps 37 and 38. The end flaps 37 and 38, and 39 and 40 are sealed one against the other by pressure applied to the carton as it is moved onto packing table 41.

I claim:

1. In a pasting device, a paste roller, means for applying paste to the surface of the roller, a ledge secured adjacent one end of the roller and in substantially longitudinal alignment with the roller and a flap folding baffle mounted below and to either side of the ledge.

2. In a pasting device, a paste roller, means for applying paste to the surface of the roller, a ledge secured adjacent one end of the roller and in substantially longitudinal alignment with the topmost surface of the roller and a substantially semiconical flap folding baffle mounted below and to either side of the ledge.

3. In a device for applying paste to a surface of a foldable flap of a carton, a paste roller provided with a peripheral foldable flap engaging groove, means for applying paste to the surface of the roller, a ledge secured adjacent one end of the roller and in substantially longitudinal alignment with the topmost surface of the roller and a substantially semiconical flap folding baffle mounted below and to either side of the ledge.

4. In a device for pasting and securing the ends of a carton having four side walls and an end flap extensible from each of the side walls, a paste roller adapted for applying a film of paste to the outer surface of two of the opposing folded end flaps, a ledge secured at one end of the roller and in substantially longitudinal alignment with the topmost surface thereof for holding the paste covered end flaps in folded relationship, and a substantially semiconical baffle mounted below and to either side of the ledge for folding the remaining opposing end flaps inwardly and upwardly against the paste covered end flaps during movement of the carton over the ledge.

5. In a device for applying paste to a foldable flap of a carton, a paste roller, means for opposing the passage of the edge of the foldable flap along the roller whereby the flap is folded and the surface thereof is caused thereby to come into contact with the surface of the paste roller, a ledge secured adjacent to one end of the roller and in longitudinal alignment with the topmost surface of the roller, and a substantially semiconical shaped flap folding baffle mounted below and to either side of the ledge.

6. In a device for apply paste to a foldable flap of a carton, a paste roller, means for opposing the passage of the edge of the foldable flap along the roller whereby the flap is folded and the surface thereof is caused thereby to come into contact with the surface of the paste roller, a ledge secured adjacent one end of the roller and in substantially longitudinal alignment with the roller and a flap folding baffle mounted below and to either side of the ledge.

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