Aug. 18, 1925. 1,549,832

C. W. HARTMANN

PAPER BAG

Filed June 30, 1923

FIG. 1.

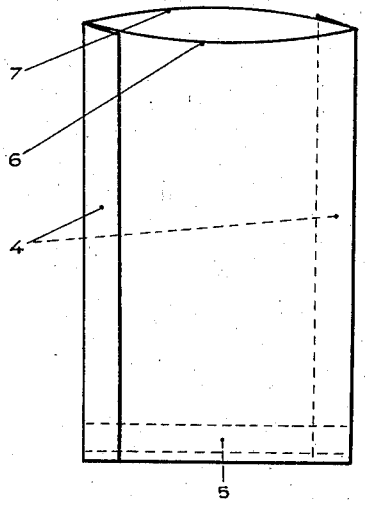
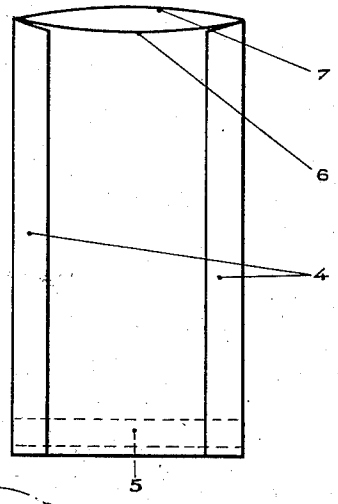


FIG. 2.



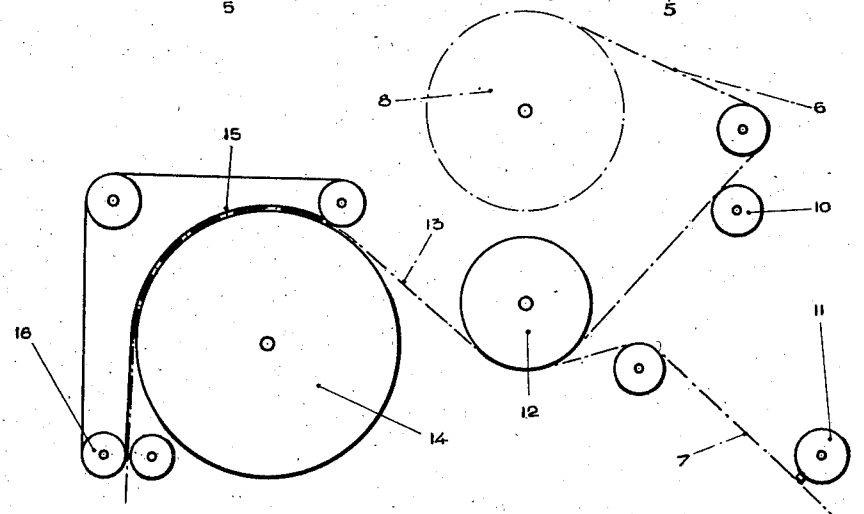
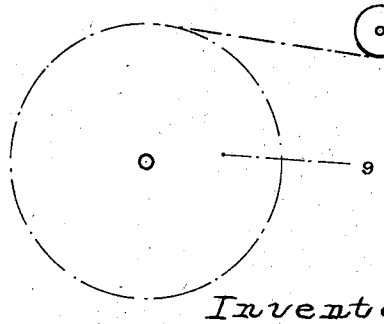


FIG. 3.



Inventor
C. W. Hartmann
By Marks & Clerk Attys.

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UNITED STATES PATENT OFFICE.

CARL WILHELM HARTMANN, OF COPENHAGEN, DENMARK.

PAPER BAG.

Application filed June 30, 1923. Serial No. 648,774.

To all whom it may concern:

Be it known that I, CARL WILHELM HARTMANN, a subject of the King of Denmark, residing at Copenhagen, in the Kingdom of Denmark, have invented certain new and useful Improvements in and Relating to Paper Bags, of which the following is a specification.

My invention relates to a process and a machine for making paper bags of the flat bag type in which each bag is sealed by the lengthwise folding of one or both of the pieces of paper constituting the bag, the folded portion or portions of one piece being pasted on to the other piece.

The present invention is characterized in that a bag of the above type has the bottom which is formed by a cross paste stripe cut some distance beneath the cross paste stripe.

In the production of my said paper bag, the paper or web of paper is only folded lengthwise, the crosswise folding as when forming the bottom of the ordinary flat bags being avoided. The bottom of my said bag is formed only by pasting together the two webs of paper by means of a cross stripe of paste, the bag after the pasting being cut a certain distance from the said paste stripe so that the edges which are forming the mouth of the following bag, produced from the webs, are free from paste.

Bags of this kind are preferably produced from two rolls or webs of paper. The two webs are folded lengthwise so as to overlap each other. Before the overlapping the free edges are pasted. With suitable intervals corresponding to the desired length of the bag, one of the webs is provided with the said paste cross stripes on the side turning inward in the bag. After the pasting together the two webs are cut a little distance from the paste cross stripe.

My invention is diagrammatically shown on the accompanying drawings, Figs. 1 and 2 showing two forms of the bag and Fig. 3 a machine for producing it.

In the bags shown in Figs. 1 and 2 the folded edges are designated at 4, and the cross pasting of the bottom 5. The difference between the two bag forms shown, is that the webs of paper 6 and 7 from which the bag according to Fig. 1 is produced have the same breadth and are folded each on its side, while the webs according to Fig. 2 have different breadth the broadest of them being folded at both edges so as to overlap the narrowest.

In Fig. 3 the two rolls of paper from which the webs 6 and 7 are wound, are designated at 8 and 9 respectively. It is understood that bags of the form shown in Fig. 2 are to be produced. Accordingly the web 6 is broader than the web 7, and only the former is continuously pasted on its edges by means of a suitable pasting roll 10. The cross pasting with certain intervals is only done at the narrowest web 7 by means of a suitable intermittent pasting effected by a roller 11. The two pasted webs run together at a roll 12 the breadth of which corresponds to that of the narrowest web. Here commences the pasting together by means of the pasted cross stripe and the folding of the free pasted length edges of the broadest web. The complete folding is carried out at the point 13 subsequent to leaving the roller 12 by some suitable folding means of known kind, after which the two webs pass between a roll 14 and an endless pressure belt 15, where the final pasting together takes place. After this the webs are cut by means of a suitable periodic e. g. rotating cutting device 16, which works exactly in correspondence with the intermittent pasting roller 11 in such a way that the cut every time comes to lie a certain little distance from the paste cross stripe, and thus the edges which are forming the mouth of the following bag, are free from paste.

I claim:

A process for producing paper bags consisting in simultaneously feeding two webs of paper and continuously applying paste to the longitudinal edges of one of the webs, applying paste transversely at suitable intervals to one of the webs during the feeding, then folding and joining the longitudinal pasted edges of the webs, then joining the pasted portions of the webs transversely, and finally cutting the joined webs at suitable distances from the transversely joined portions.

In witness whereof, I subscribe my signature.

CARL WILHELM HARTMANN.