Aug. 9, 1932. C. S. HAMERSLEY 1,870,681

PAPER

Filed April 26, 1930

Fig. 1.

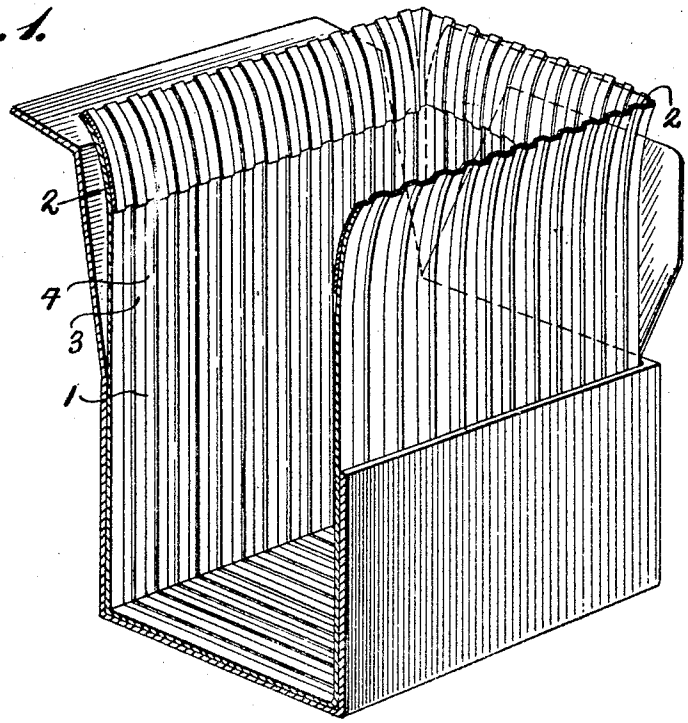


Fig. 2.

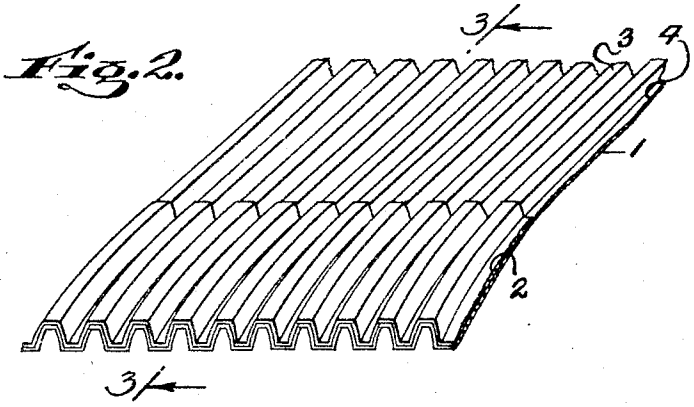
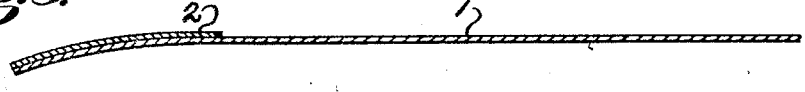


Fig. 3.



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UNITED STATES PATENT OFFICE

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PAPER

Application filed April 28, 1930. Serial No. 447,487.

This invention relates to an improvement in wax papers.

In my application Serial No. 409,445, filed November 25, 1929, I have pointed out some of the difficulties experienced in packing foods, etc. in boxes lined with moisture-proof paper, and the present invention is directed to further improving such papers.

In the packing of certain food stuffs, crackers for instance, the boxes are folded and lined automatically with moisture-proof paper, the lining and the cover of the box, as stated in my previous application, standing vertically at the finish of this operation. Inasmuch as the boxes are then filled by hand it is desirable that the lining be so disposed as not to interfere with the filling operation.

By my previous application I employ a waxed or moisture-proof paper which is distorted out of the plane of both faces of the paper to provide corrugations in the paper, increasing the rigidity or stiffness of the paper and reducing the tendency of the paper to lean toward the inside of the box in the way of the packer's hands.

I have found after many tests that while such a construction is vastly superior to a plain paper, though of greater weight, even better results are obtained if the lining is so constructed as to curve or curl outwardly at its upper edges, as distinguished from merely standing erect, inasmuch as such construction reduces to the minimum the chances of the hands of the packer striking the upper edge of the paper when filling the box, and avoids the necessity of the packer pushing the lining to one side so to admit of the entry of the crackers or other articles with which the box is to be filled.

To accomplish my purpose the waxed paper is provided along one face thereof adjacent its edge with a strip of paper which is so disposed as to cause the paper to curl or curve outwardly in a direction away from the interior of the box, so that with the lining in position and the box ready for filling, the lining at its upper edge is slightly bent or curved over and outwardly sufficiently to take it out of the path of the packer's hands when filling the box, and avoiding the necessity of the operator pressing the lining to one side in the packing operation.

I have found that good results are obtained if this extra strip of paper be applied to a plain lining, such construction being superior to the plain paper heretofore used for box linings, but much better results are obtained if the curling strip is applied to a lining of the construction covered by my co-pending application above referred to, with the additional strip extending across the corrugations.

In the drawing:

Fig. 1 illustrates an embodiment of my invention, showing the lining in place in a cracker box;

Fig. 2 is a plan view of a piece of my improved lining; while

Fig. 3 is a section on line 3—3 of Fig. 2.

Referring to the drawing in detail, it will be seen that my improved paper comprises a main or body portion 1, provided along its edge or edges with a narrow strip of paper 2. Inasmuch as the paper 1 as well as the strip 2 are waxed, the strip 2 will be held in place by the wax coating.

If desired the paper 1 with the strip 2 applied thereto may be passed between toothed rolls such as disclosed in my prior application above referred to permanently to distort the paper out of the planes of the surfaces of the paper to provide alternate ridges and depressions 3 and 4, the curling strip 2 which likewise will be distorted extending across these corrugations.

I find that when such a paper is folded in with a box in the process of automatically forming and lining the box, that the lining along its upper edges curls or curves outwardly as shown in Fig. 1, so that the upper edge of the lining is moved outwardly slightly out of the plane of the inner face of the main portion of the paper lining to facilitate entry of the operator's hands into the box, in the process of filling, without catching in the paper.

It will be seen from the foregoing, therefore, that I have provided an improved paper particularly adapted for lining boxes,

and so constructed as to facilitate filling of the boxes.

It is to be appreciated also that my invention may be realized by employing an unwaxed paper, and by omitting the corrugations shown in the drawing although such construction is preferred where a saving in cost is desired, in that the corrugated paper is more rigid than a plain paper, permitting the use of lighter weight paper. It is to be understood also that the strip 2 may be applied along any or all edges of the paper if desired.

What I claim is:—

1. As an article of manufacture, a flexible paper distorted at intervals out of the plane of the surfaces of the paper to provide corrugations, and a similarly distorted flexible paper strip attached in superposed relation to the paper along an edge thereof and extending across the corrugations.

2. As an article of manufacture a flexible waxed paper distorted at intervals out of the plane of the surfaces of the paper to provide corrugations, and a similarly distorted flexible waxed paper strip superimposed upon the first mentioned paper along one face of the paper adjacent the edge thereof, said strip extending transversely of the corrugations.

This specification signed this 23rd day of April, 1930.

CARL S. HAMERSLEY.