May 26, 1936. H. C. ORCHARD 2,042,017

DECORATIVE CORRUGATED PAPER

Filed Aug. 24, 1934

FIG. 1

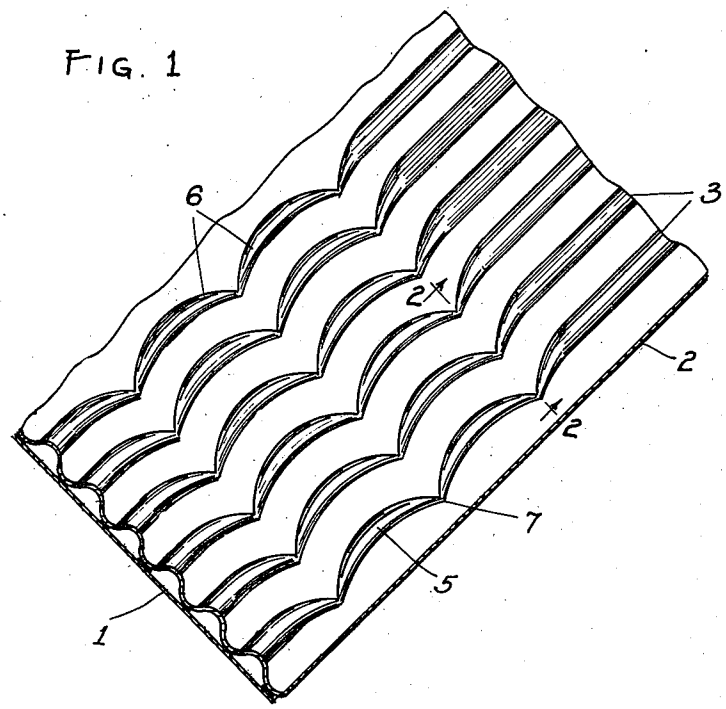
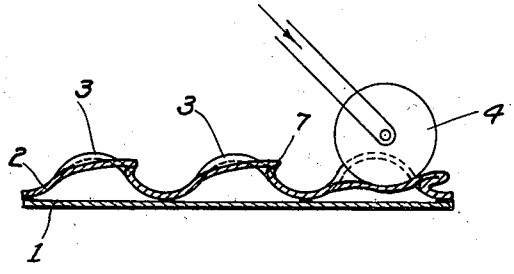



FIG. 2

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# UNITED STATES PATENT OFFICE

2,042,017

## DECORATIVE CORRUGATED PAPER

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2 Claims. (Cl. 41—24)

This invention relates to improvements in corrugated paper, and more particularly to such paper used for window displays, such as backgrounds, supports, or other functions, and has among its objects the production of a paper of the kind described, which will be neat and attractive in appearance, simple to make, and which will be substantially of the same cost of manufacture as corrugated paper ordinarily employed.

One of the principal objects of my invention is to produce a corrugated paper of the kind described, which will harmonize well with practically any type of window display, and which will relieve the display back-ground of the monotony generally found, by providing in its design a number of high-lights and shadows.

Another object of the invention is to produce a corrugated paper having this function, in which there will be a design formed on the face of the same, in a very simple but effective manner, by laterally distorting the corrugations along lines transversely to the length of the same, at predetermined points, by applying pressure in a direction other than normal to the median plane of the corrugations, this serving to form a series of arcs along each corrugation so treated.

Many other objects and advantages of the construction herein shown and described, will be obvious to those skilled in the art to which this invention appertains, from the disclosures herein given.

To this end, my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and the method of forming the design in the corrugated paper, as will be more particularly pointed out in the claims.

In the drawing, wherein like reference characters indicate like or corresponding parts throughout the views,

Fig. 1 is a perspective view of a sheet of corrugated paper, wherein the design is partly formed thereon;

Fig. 2 is a side elevation, showing the manner of distorting the corrugations to form said design.

Referring more particularly to the drawing, wherein I have illustrated the preferred embodiment of my invention, there is shown a section of corrugated paper or paper board, consisting of a backing sheet 1, generally plain or flat, to which is secured or mounted the facing sheet 2 of corrugated paper, the parallel corrugations 3—3 of which are co-extensive with the width of the sheets. The usual manner of securing the facing sheet and backing sheet together is to place adhesive between the backing sheet and those downwardly extending corrugations, so that the securement is therefore preferably at spaced points along the parallel lines defined by the corrugations.

This sheet, thus produced, is limited in its use for window display back-grounds and other decorative uses, because of the monotony of the appearance, and therefore I have sought to obviate this defect by breaking up the face of the sheet with a greater number of high-lights and shadows, in a manner both simple and pleasing, and yet at substantially no added cost.

Pressure on the corrugations at right angles to the median plane of the sheet will flatten down the corrugations at the points of application of pressure. Therefore I apply the pressure at an angle other than normal to said plane of the corrugated sheet, as for example at the oblique angle indicated in the drawing so that the horizontal component of this oblique force is greater than the vertical component of the same, and hence less crushing of the stock occurs.

The pressure may be applied with any desired tool, as for example the roller tool 4, having a fairly thin edge, and passing across the corrugations 3—3 transversely thereto for all or a portion of the size of the sheet, and the design may be extended by forming a plurality of these pressure lines parallel to one another, if so desired.

When pressure has been applied to the material of the corrugations in this manner, the material at the point of the application of such pressure will be pulled to one side laterally of the longitudinal axis of the corrugations and squeeze it to a relatively thin or sharp edge 7. This pulls the material of the corrugations, at opposite sides of the point of application of pressure, into arcs or curves 5, the ends of said adjacent arcs being indicated at 6.

Obviously, this distortion of the corrugations results in a greater number of high-lights and shadows across the face of the paper, and gives to its appearance a design, the shape of which is dependent upon the lines of pressure across said corrugations. Such a corrugated board may be used for many uses, including that of window decorating, and will harmonize well with practically any sort of window display, inasmuch as the attention of the observers will be centered upon the display instead of upon the back-ground itself.

What I claim as new and desire to secure by Letters Patent is:

1. In a decorative window-display, the combination with a backing sheet, of a corrugated facing sheet distorted along predetermined lines to form a series of arcs along said corrugations.

2. A decorative window-display sheet comprising a corrugated facing sheet, and a backing sheet secured thereto, said facing sheet distorted along predetermined lines to form arcs extending along said corrugations in both directions from the point of distortion so as to form a predetermined portion of high-lights and shadows when said display is viewed in normal service.

HERMAN C. ORCHARD.