Jan. 22, 1924. 1,481,529

P. G. BALTZ ET AL

PAPER

Filed April 14, 1923 2 Sheets-Sheet 1

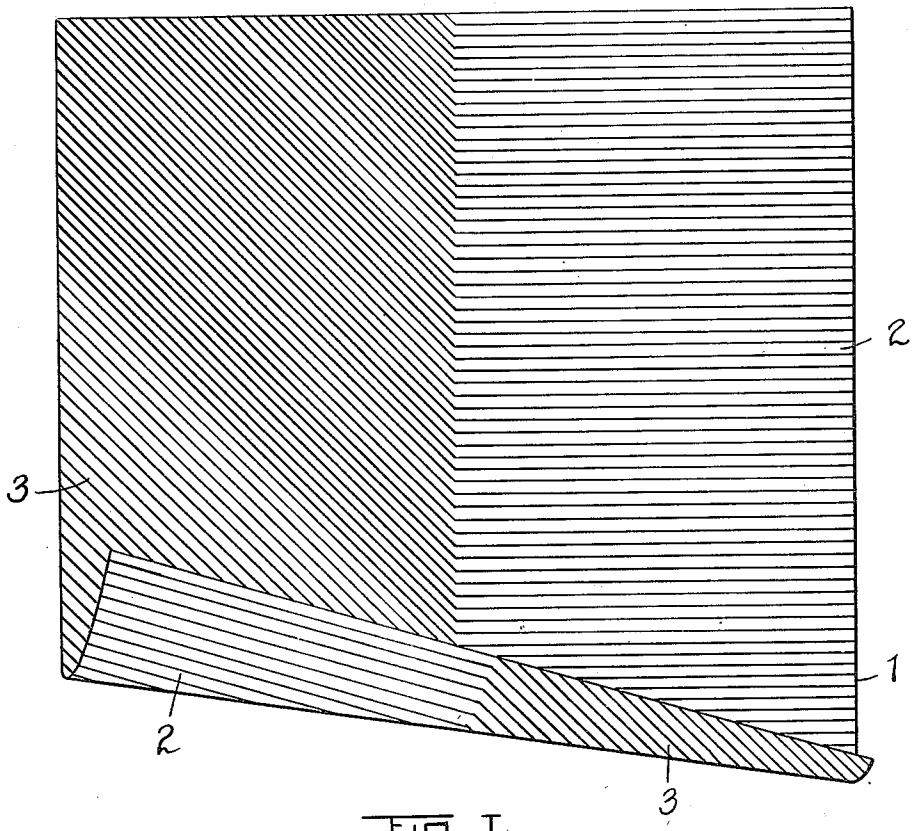


Fig. 1.

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Clarence O. Thorne. INVENTORS.

BY

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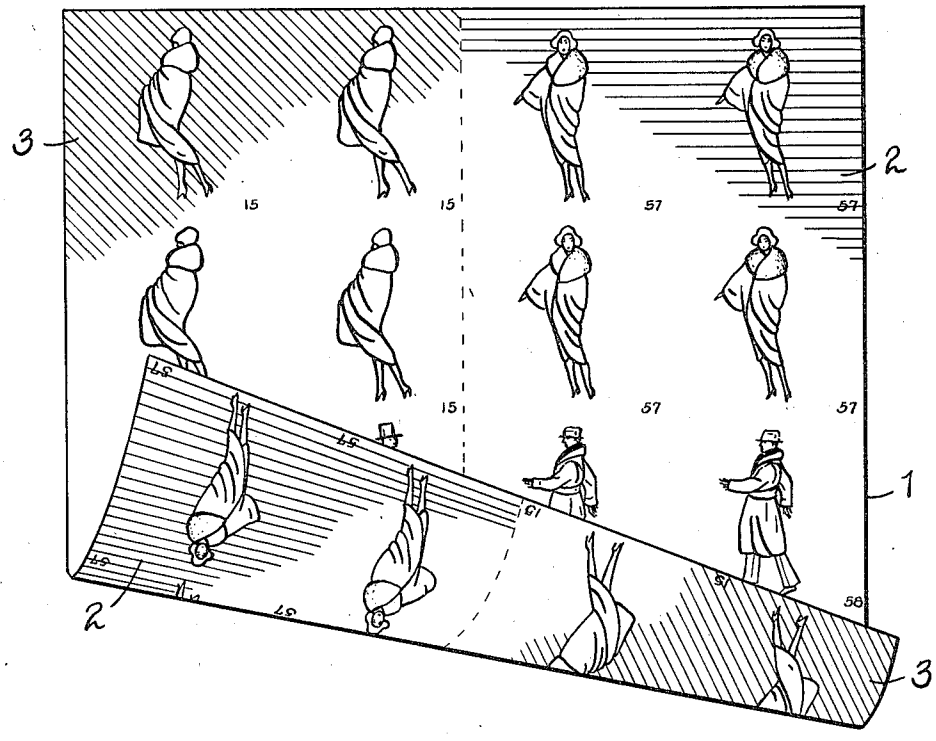


Fig. II.

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Patented Jan. 22, 1924. 1,481,529

UNITED STATES PATENT OFFICE.

PHILIP G. BALTZ, OF CHICAGO, ILLINOIS, AND CLARENCE O. THORNE, OF WATERVLIET, MICHIGAN.

PAPER.

Application filed April 14, 1923. Serial No. 632,162.

To all whom it may concern:

Be it known that we, PHILIP G. BALTZ and CLARENCE O. THORNE, citizens of the United States, residing at Chicago, county of Cook, State of Illinois, and Watervliet, county of Berrien, State of Michigan, respectively, have invented certain new and useful Improvements in Paper, of which the following is a specification.

This invention relates to an improved paper.

The main object of this invention is to provide an improved paper for use in catalogs, advertising matter and the like, which permits printing by what is known by the "work and turn" method, thereby resulting in a saving in the number of plates, make-readies, and press operations.

A further object is to provide an improved paper for the purpose described and having these advantages which is very economical to produce.

Objects pertaining to details and economies of our invention will definitely appear from the detailed description to follow.

We accomplish the objects of our invention by the means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure showing an embodiment of our invention is clearly illustrated in the accompanying drawing forming a part of this application, in which:

Fig. I is a conventional illustration of a sheet of paper in two colors, the sheet being rolled up at one edge to display the coloring on the under side thereof.

Fig. II is a conventional illustration of a sheet embodying the features of our invention printed as for use in a magazine or catalog.

Similar reference numerals indicate similar parts in both views.

We have illustrated our improvements as applied to a sheet but it will be understood that the same are applicable to a web of paper and, indeed, in the manufacture of our improved paper it is coated in web form and cut into sheets where it is desired to print or use in sheet form.

It is old in the art to coat sheets of paper so as to provide one color on one side and another color on the opposite side. In the printing of such sheets, for instance sheets 8½" x 11", white on one side and colored on the other, it would be customary for the printer to print the same on a sheet 17" x 22" which would necessitate eight sheets or plates, two make readies and two press operations. Our improvement cuts the number of expensive plates and make-readies in half and without increasing the number of press operations.

Our improved sheet designated generally by the numeral 1 has a portion 2 thereof of each side of one color, for instance blue as indicated, and another portion 3 of each side colored green, as indicated, these colors being, of course, arbitrary. The colors on the opposite sides are disposed reversely so that when the sheet is turned in the work-and-turn operations of printing, the colors are presented to the press in the same relation.

In Fig. II we illustrate the sheet as printed with a make-ready comprising four similar plates representing four pages, as four pages 15, four pages 57 and four pages 58. When the sheet is printed on one side it is reversed and the same colors are presented to the press in the same relation as in the first printing operation on the sheet. This enables the use of a multiplicity of colors and is particularly desirable for use on covers, colored inserts, and the like, the printing being effected with a minimum of printing plates, make-readies and presses.

It is common practice where a solid colored front or back ground is required for a cover such as a magazine cover to produce the same by printing operations. Our improvement eliminates the several operations and plates required in such work.

The coloring is preferably secured in the coating operations or by using colored coating material.

We have not attempted to illustrate or describe various uses and advantages of our improved paper as we believe that the advantages and the manner of using the same will be readily understood by those skilled in the art, particularly printers and others familiar with printing operations such as are commonly practiced in commercial work, the printing of magazines, advertising matter and the like.

Having thus described our invention what we claim as new and desire to secure by Letters Patent is:

1. A sheet or web of paper having one half of each side thereof colored to contrast

with the other half, the colors on the opposite sides being reversely arranged so that when the sheet or web is reversed the colors are presented in the same relation.

2. A sheet or web of paper having the opposite sides of each half thereof contrastingly colored, the other half being reversely colored so that when the sheet or web is reversed the colors are presented in the same relation.

3. A sheet or web of paper having portions of each side thereof colored to contrast with other portions, the colors on the opposite sides being reversely arranged so that when the sheet or web is reversed the colors are presented in the same relation.

4. A sheet or web of paper having both sides thereof contrastingly colored, the colors on one side being reversely arranged relative to those on the other side so that when the sheet or web is reversed the colors are presented in the same relation.

5. A sheet or web of paper having corresponding portions of each side correspondingly colored so that first one side of the sheet and then the other may be presented to a press with the colors in the same relation at each presentation.

In witness whereof, we have hereunto set our hands.

PHILIP G. BALTZ. [L. S.]
CLARENCE O. THORNE. [L. S.]