Feb. 1, 1927. 1,616,138

J. PORTER

DECORATIVE PAPER

Filed Jan. 22, 1926

Fig. 1.

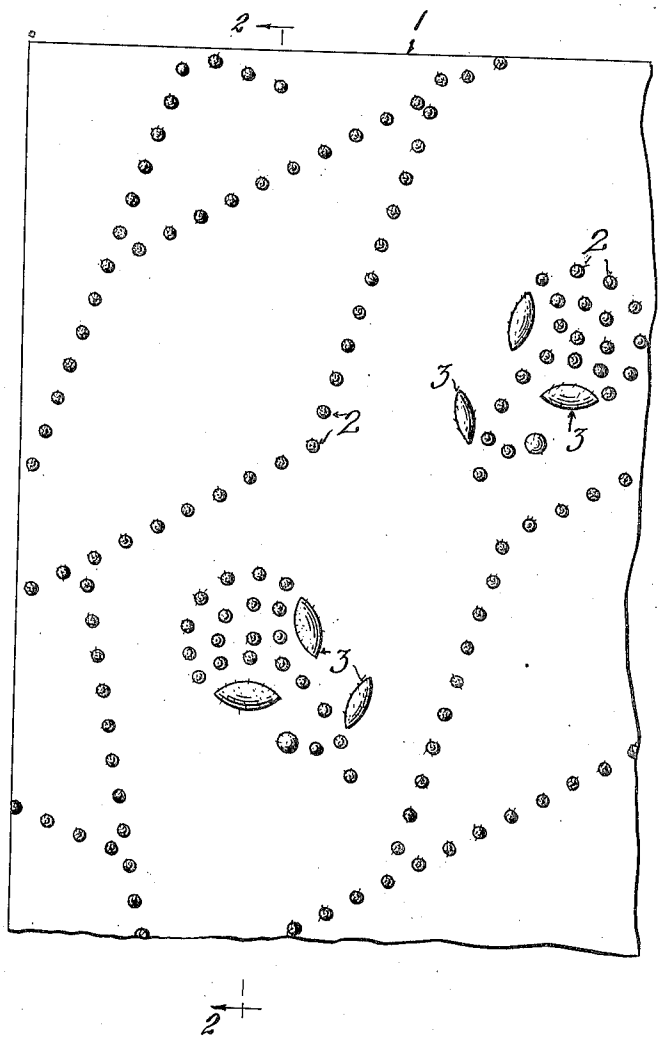
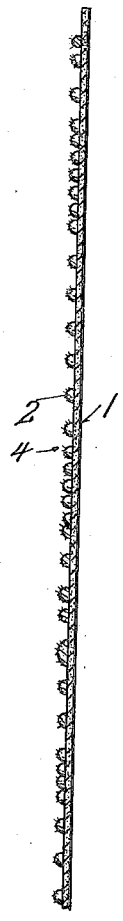


Fig. 2.



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UNITED STATES PATENT OFFICE.

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DECORATIVE PAPER.

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My invention relates to a decorative material suitable for different uses, and especially adapted to form a pleasing and ornamental wrapper for fabrics in the piece, the object being to provide a put-up or wrapper of artistic and novel appearance. The decorative sheet may be made of a heavy paper stock and in some cases the stock may be of such a character as to come within the designation of cardboard, depending upon the requirements of the wrapper. The sheet is ornamented by means of dots which may be arranged to form any ornamental figure or motif, and the dots may be of varying sizes and shapes. If desired, the design formed by these various dots may be a copy of the design on the fabric which is to be wrapped by means of my improved decorative paper, and likewise the coloring may correspond with the coloring of the fabric contained within the package, but these features are optional. The dots forming the design upon the sheet are formed as raised projections and consist of a paste-like or adhesive material which is applied to the paper stock after the latter is made, so that the surface of the sheet presents a series of raised dots which may be differently colored to that of the sheet itself in order to produce a contrast. In the fullest embodiment of my invention, these dots are flocked on the surface of the paper and contain small fibers which not only produce a pleasing, soft effect resembling that of flocked fabric, but the fiber also tends to make the dots more durable and less likely to be removed from the paper by friction or by bending of the paper.

In the drawings forming part of this application,

Figure 1 is a face view of a sheet embodying my invention, and

Figure 2 is a cross section thereof on the line 2—2 of Figure 1, showing the parts exaggerated in order to more clearly illustrate the construction.

In the drawing I have shown a sheet 1 which will consist of paper stock, either of the character usually employed for wrapping piece goods, or the stock may be cardboard, depending upon the particular use to which the sheet or wrapper is to be applied. The sheet 1 may be of any length or width, or it may be formed in very long strips and rolled into large reels like wrapping paper, to be cut off into lengths when it is to be used for wrapping any piece goods or other articles.

In Figure 1 I have shown a series of dots, some of which 2 are circular in form, and others 3 are of elongated shape, arranged to produce a pattern which may be repeated throughout the length and width of the entire sheet or strip of paper stock. It will be apparent that the shape and arrangement of these dots may be varied to produce any pleasing design, which design may have no relation to the contents of the package, or it may be a copy of the design appearing on the fabric which is to be wrapped in the sheets. These dots, as shown in Figure 2, are raised from the surface of the paper stock in beadlike formation, so that the dots forming the pattern stand out from the surface of the paper stock and present a very pleasing design in cameo. If the dots are of a different color from the paper stock of which the sheet is composed, the contrast of the design formed by the dots will be materially enhanced, so that a wrapper is provided having a striking and artistic appearance. In the fullest embodiment of my invention, the several dots 2, 3 regardless of their shape, have very small fine fibers 4 which project into and are held by the body of the dot material, and the ends of these fibers project from the surface of the dots as illustrated in Figures 1 and 2 of the drawing. The proportions are exaggerated in these figures in order to render the fibers visible but in the actual product the fibers will generally be so proportioned that they will not be apparent as such, but will simply give the surface of the dots a soft, pleasing and fabric-like appearance.

The several dots are composed of a paste-like or cementitious material which will tenaciously adhere to the surface of the paper sheet and resist the ordinary friction to which the sheet is likely to be subjected, and adhere to the sheet notwithstanding such bending as may take place when folding the sheet about a bolt of fabric. One method by which the dots may be placed upon the paper stock is to provide a cylinder including a sheet of metal such as copper, provided with apertures arranged according to the design to be formed by the dots on the paper stock; and these apertures will therefore have different shapes

according to the outlines of the various dots. This is what is generally known as a stencil cylinder. The paste-like or cementitious material in a rather fluid state, may be placed within the cylinder and forced through the apertures of the stencil plate while the sheet of paper stock is being conducted over the surface of the stencil plate. This will cause the paste material to form in globules upon the surface of the paper stock as it is forced through the apertures of the stencil plate; and after the paper stock travels away from the stencil plate or roller, the short fibers or flock material, which may be fibers of cotton, wool or other material, are dusted on the sheet before the paste-like material has fully dried or set. These fibers, in falling on the paste-like globules, will project into the same, leaving the ends of the fibers projecting from the surface of the globules, and after this flocking material has been applied the stock is dried in order to set or harden the dots. The drying operation may be speeded in any desired way by heating the material. After the dots have been dried, the surplus flock material which was sprinkled upon the paper may be blown or brushed off, leaving only such flocking material as adheres to the body of the dots. The paste-like material of which the dots are formed preferably is insoluble in water and for this purpose the same material may be used as has heretofore been used in making what is known as flocked fabric.

Having described my invention, what I claim is:

1. A sheet composed of paper or cardboard stock having applied to the surface of said sheet a series of raised dots formed of a cementitious material adhering to the surface of the paper or cardboard stock, and a fibrous or flocking material imbedded in and forming a part of said dots.

2. A sheet composed of paper or cardboard stock having applied to the surface of said sheet a series of raised dots formed of a cementitious material adhering to the surface of the paper or cardboard stock and a flocking or fibrous material imbedded in said dots and partially exposed on the surface thereof.

Signed at North Adams, county of Berkshire, State of Massachusetts, this 14 day of December, 1925.

JOHN PORTER.