Jan. 7, 1930. C. F. TEALL ET AL 1,742,831

PRINTING OF FABRICS

Filed March 8, 1929

Fig. 1

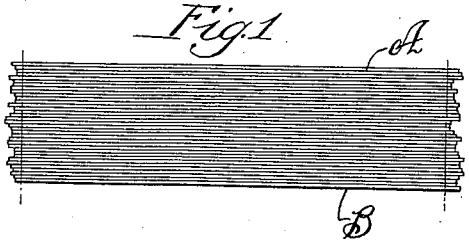


Fig. 2.

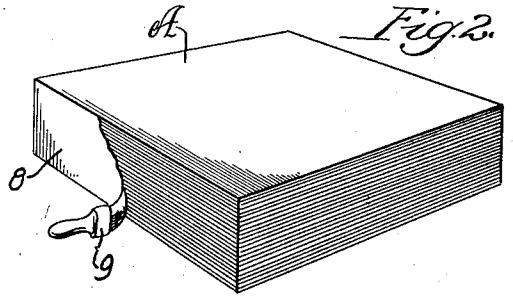


Fig. 4

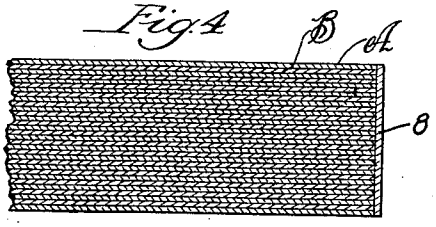


Fig. 3

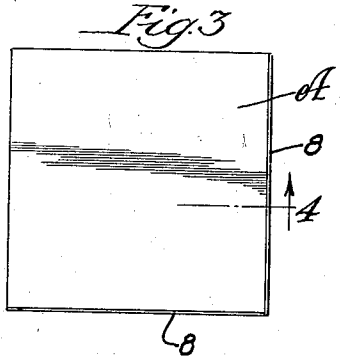


Fig. 5

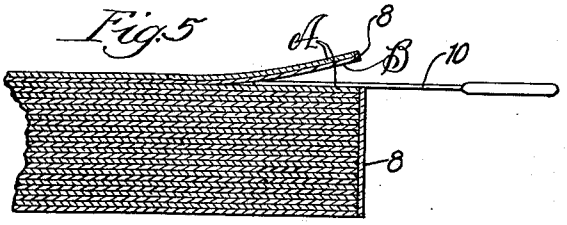


Fig. 6

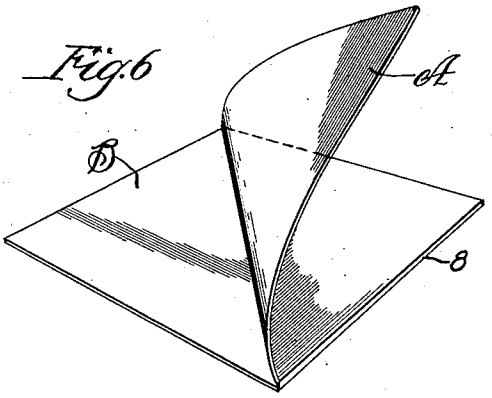
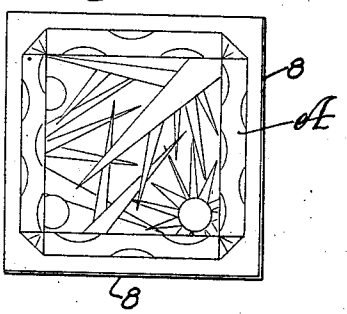


Fig. 7



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Patented Jan. 7, 1930 1,742,831

UNITED STATES PATENT OFFICE

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PRINTING OF FABRICS

Application filed March 8, 1929. Serial No. 345,456.

This invention which relates to the printing of fabrics is concerned with certain means by which the handling of the work is expedited and facilitated, and by which an improved product is obtained. The invention is particularly applicable to chromatic printing upon light fabrics having little or no resistance to rumpling or creasing—a material which at best is difficult to operate upon.

In the accompanying drawing we have illustrated certain steps in the printing of fabrics according to this invention, in the manner following:

Figure 1 shows in side elevation a pile of fabric sheets and paper mounts arranged in alternation;

Fig. 2 which shows the same pile after trimming of its edges, illustrates the application thereto of an adhesive along one or more of the pile edges;

Fig. 3 is a plan view thereof;

Fig. 4 is a detail in vertical section on line 4 of Fig. 3;

Fig. 5 which is a view similar to Fig. 4 shows the operation of separating one sheet and an associated mount from the remainder of the pile;

Fig. 6 shows in perspective the extent of connection which may obtain between the fabric sheet and its mount; and

Fig. 7 is a view in plan of the fabric sheet after the printing operation has taken place.

In proceeding with the printing of fabrics A, particularly such as are easily rumpled and of slippery surface, we find it advantageous to cut the same into sheets of a given size, and also to cut a like quantity of relatively heavy paper sheets B to the same size, then to arrange the fabric and paper sheets in alternation in a pile, as suggested in Fig. 1. Thereafter the edges of the pile are trimmed and to one or more of such trimmed edges an adhesive 8 is applied, as by a brush 9. Preferably two adjacent edges of the pile are treated to the adhesive the effect of which is to enter slightly between the several fabrics and paper sheets to unite them lightly together.

When the adhesive has set sufficiently for the sheets to receive individual handling, a knife 10 or other thin instrument, which is introduced between each fabric sheet and one of the paper sheets adjacent thereto, operates to sever one such fabric piece together with attached paper backing, from the remainder of the pile. The paper having a body of sufficient stiffness to normally lie flat reinforces the attached fabric sheet because of its connection therewith along two of the edges thereof. By this means the paper sheet serves as a flexible mount for the fabric sheet permitting the latter to be handled flat and smooth without liability of creasing, wrinkling, or rumpling.

The individual fabric sheets with attached mounts may thereafter be subjected to a printing operation performed in any standard press. During this operation the fabric and its mount will, if necessary, travel together around a cylinder or to a point of delivery without relative shifting of any kind. Due to the edge attachment of one to the other by which a light fabric piece is prevented from any slipping, and due to the backing which the paper mount affords to such a sheet, the ink may be applied smoothly and evenly, and where, as in chromatic printing, the work is fed through the press two or more times, the paper mount maintains the fabric sheet in an exact position of register during each printing operation. This is of considerable advantage in that the work proceeds with greater speed and certainty and the resulting product is of uniform character. The final step in the handling of the fabric sheets, according to this invention, is to detach the mouths which may be easily and quickly removed owing to the narrow area of adhesion in each case.

We claim:

1. In the printing of fabrics, the steps of edge uniting a pile of alternated fabric and paper sheets, of severing the individual fabric sheets, each with one paper sheet attached, and of feeding through a press the attached two sheets for the printing of characters upon one of them.

2. In the printing of fabrics, the steps of uniting two adjacent edges of a pile of alternated fabric and paper sheets, of severing the

individual fabric sheets, each with one paper sheet attached, and of feeding through a press the attached two sheets for the printing of characters upon one of them.

3. In the handling of fabrics, the steps of edge uniting a pile of alternated fabric and paper sheets, and of severing the individual fabric sheets each with one paper sheet attached.

4. In the handling of fabrics, the steps of edge uniting a pile of alternated fabric and paper sheets, of severing the individual fabric sheets each with one paper sheet attached, and finally of detaching each fabric sheet from its associated paper sheet.

In testimony whereof, we have hereunto set out hands and seals this 4th day of March, 1929.

CLARENCE F. TEALL.
PIERRE G. COWAN.