

(No Model.)

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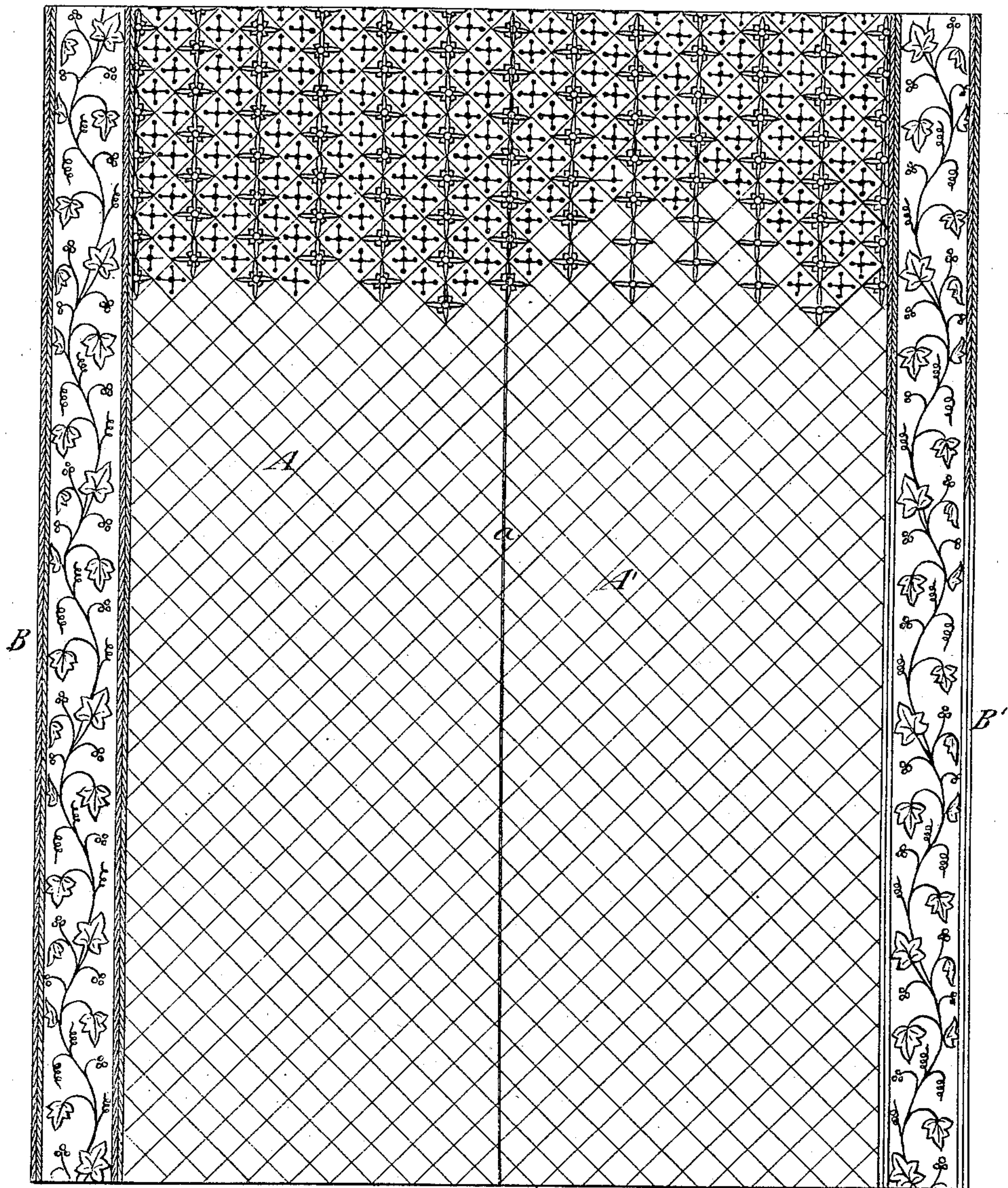
F. L. PALMER.

ART OF PRINTING FABRICS.

No. 280,075.

Patented June 26, 1883.

*Fig 1.*



*Witnesses*  
*J. H. Harnes*  
*Ch. Sundgren*

*Inventor*  
*Frank L. Palmer*  
*by his Attorney*  
*Brant Brown*



(No Model.)

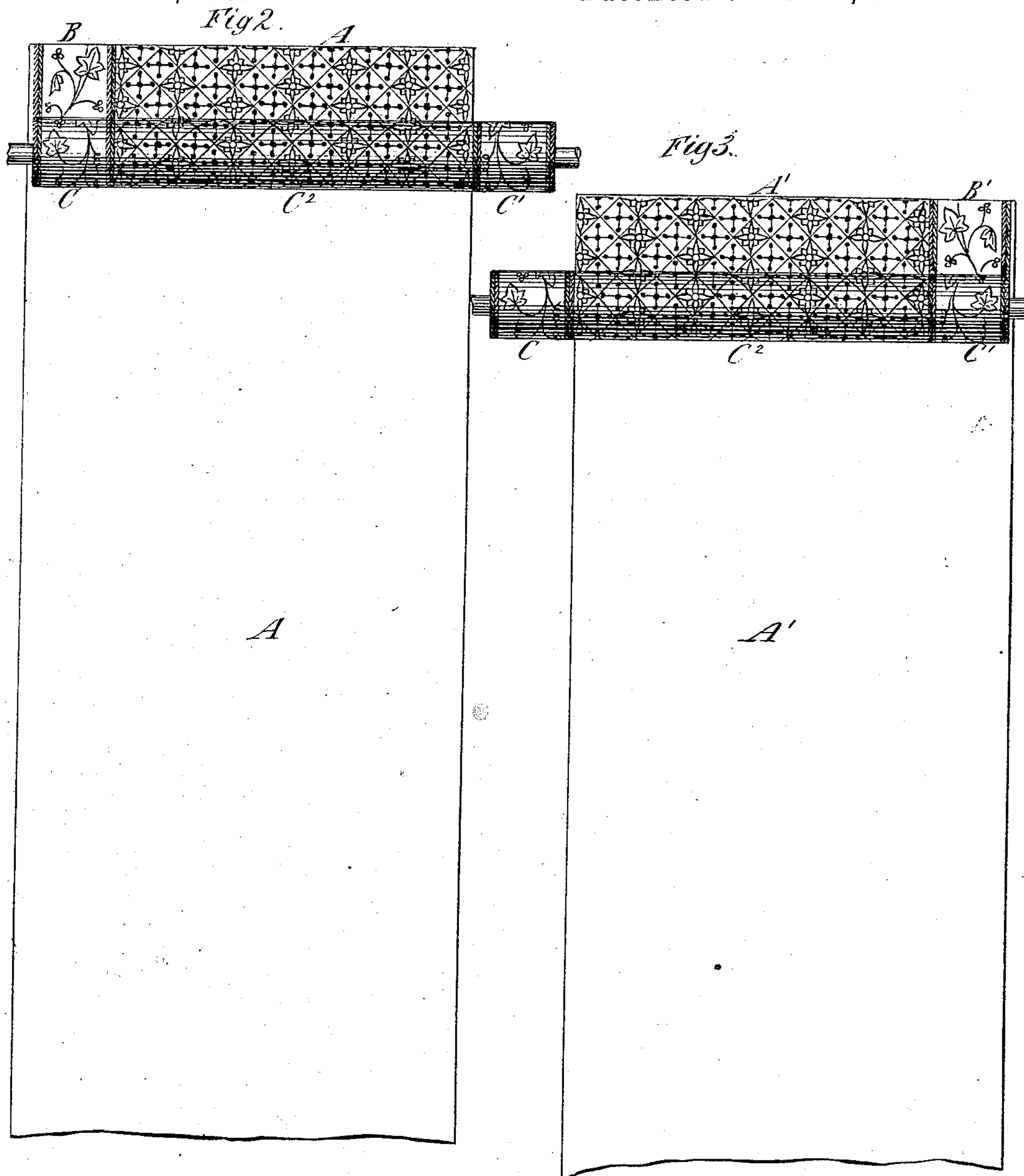
2 Sheets—Sheet 2.

F. L. PALMER.

ART OF PRINTING FABRICS.

No. 280,075.

Patented June 26, 1883.



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Inventor  
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# UNITED STATES PATENT OFFICE.

FRANK L. PALMER, OF NEW LONDON, CONNECTICUT.

## ART OF PRINTING FABRICS.

SPECIFICATION forming part of Letters Patent No. 280,075, dated June 26, 1883.

Application filed January 5, 1883. No model.)

*To all whom it may concern:*

Be it known that I, FRANK L. PALMER, of New London, in the county of New London and State of Connecticut, have invented a new and useful Improvement in the Art of Printing Fabrics, of which the following is a specification.

My invention relates more especially to the printing of fabrics for the manufacture of goods which require two widths of fabric and a border at each edge of the goods, or, in other words, at the outer edges only of the two widths of fabric, which are united to make the goods, and not at the inner edges of the two widths of fabric which are sewed together. To this class of goods belong bed-comfortables and bordered quilts. Of course the fabric might be printed by one printing-roller or set of rollers with a border portion at one end of the roller, and two widths of fabric so printed sewed together at those edges which are without borders; but in such case one width of fabric would be reversed in position relatively to the other, the borders being of course also reversed, and nothing but a geometrical border design, or a design which would present the same appearance when looked upon from either direction, could be used.

Heretofore the only way known for printing single-bordered fabrics for manufacturing goods of the kind above described with a border at each edge has been to use two entirely separate printing-rollers or sets of rollers with a border at one end, one of the fabrics to form half of the goods being printed by one roller or set of rollers, and the other fabric to form the other half of the goods being printed by the other roller or set of rollers. This involves the expense of engraving the whole length of two rollers, which cost about three dollars each.

The object of my invention is to enable both the above-described fabrics to be printed from a single roller or set of rollers, and to produce upon the outer edge of one fabric a right-hand border and on the outer edge of the other fabric a left-hand border, both borders of corresponding pattern running in the same direction, and I am enabled to do this by the use of a roller which costs but little more than an or-

dinary printing-roller, and far less than two rollers, one provided with a border at one end and the other with a border at the other end.

The invention, briefly stated, consists in a novel arrangement of patterns on a single roller for printing two pieces of fabric of the kind above described, and in presenting the two pieces of fabric to different portions of the roller in the act of printing, I provide a roller of a length at least the width of the border greater than the width of the fabric, and on such roller I engrave the body-pattern in the middle and border-pattern at each end. In printing, instead of presenting the two pieces of fabric to the same portion of the roller, I present them to different portions—that is, I print one piece of fabric with the body or central portion and one border or end portion of the roller, and I print the other fabric with the body or central portion and the other border or end portion of the roller. In this way I am enabled to print the two fabrics as cheaply and as perfectly as if two separate rollers or sets of rollers were employed, and I save the expense of making the additional roller or set of rollers, which would otherwise be necessary.

In the accompanying drawings, Figure 1 represents a piece of goods composed of two fabrics printed according to my invention and suitable for use in making a quilt or comfortable. Fig. 2 represents one of the fabrics of which the goods are formed, and a printing-roller showing the position of the fabric relatively to the roller while printing; and Fig. 3 represents the other fabric and the roller, showing the position of that fabric relatively to the roller while printing.

Similar letters of reference designate corresponding parts in all the figures.

The goods shown in Fig. 1 are composed of two pieces or widths of fabric, A A', sewed together at *a*, and having at their outer edges borders B B', but having no borders at their inner or connected edges. The printing-roller shown in Figs. 2 and 3 comprises two border portions, C C', and an intermediate body portion, C<sup>2</sup>. The roller is made at least as much longer than the width of the fabric as the width of either border portion C or C', and when applied or presented to the roller the fabric A



or A' will cover the body portion C<sup>2</sup> and one border portion C or C' thereof, as shown in Figs. 2 and 3.

In printing I present the fabric A to the roller, as shown in Fig. 2, so that it covers the body portion C<sup>2</sup> and one or the left-hand border portion, C, of the roller. The body portion and border B of the fabric A will therefore be printed by the body portion and border portion C of the roller.

I present the fabric A' to the roller so as to cover the body portion C<sup>2</sup> and the right-hand border portion, C', thereof. The body portion and border B' of the fabric A' will therefore be printed by the body portion and border portion C' of the roller.

The only increase in the cost of making the roller shown over the ordinary roller, with a border portion at one end only, is the expense of making the extra border portion, and is inconsiderable compared with the cost of an entire extra roller.

This invention is also applicable to the printing of fabrics for curtains in which one of a

pair requires the border on the right-hand edge and the other on the left-hand edge, and it is applicable generally to all goods which may require a right and left hand border, whether the goods are to be used single width, as for curtains, or double width, as for quilts.

What I claim as my invention, and desire to secure by Letters Patent, is—

The improvement in the art of printing fabrics for the purpose herein described, consisting in providing a printing-roller having a border portion at each end, the length of the roller being at least the width of one border portion greater than the width of the fabrics, and in printing one piece of fabric from the body portion and one border portion of the roller, and another piece of fabric from the body portion and the other border portion of the roller, substantially as herein set forth.

FRANK L. PALMER.

Witnesses:

H. A. BAKER,  
F. L. ALLEN.