

(No Model.)

C. I. EDMONDSON.

PRINTING MULTICOLOR DESIGNS ON TEXTILE FABRICS.

No. 537,023

Patented Apr. 9, 1895.

Fig. 1.



Fig. 2.



Fig. 3.



Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES I. EDMONDSON, OF WOODFORD, ENGLAND.

PRINTING MULTICOLOR DESIGNS ON TEXTILE FABRICS.

SPECIFICATION forming part of Letters Patent No. 537,023, dated April 9, 1895.

Application filed January 93. Serial No. 457,249. (No model.) Patented in England September 6, 1892, No. 15,933.

To all whom it may concern:

Be it known that I, CHARLES IRVING EDMONDSON, a subject of the Queen of Great Britain, and a resident of Woodford, near Stockport, in the county of Chester, England, have invented certain new and useful Improvements in Printing Designs or Patterns in Two or More Colors upon Textile Fabrics, (for which I have obtained Letters Patent in Great Britain, No. 15,933, bearing date September 6, 1892,) of which the following is a specification.

My invention is an improved process for printing designs or patterns in two or more colors upon woven fabrics as calico, cotton cloths, silk or the like.

In the ordinary process of calico printing it has been customary to make up the colored design or pattern by a series of impressions each one of which printed only a portion of the complete design in one color.

My invention consists in first printing the complete design or pattern upon the fabric in one color and then printing upon this complete foundation impression, one or more fragments of the complete design in another color or colors said fragments being exact "repeats" of those portions of the complete design upon which they are printed. The process is carried on continuously, owing to the nature of the material the repeats being applied when the material leaves the master roller.

In carrying out my method, I use rollers consisting of a master roller and one or more supplemental rollers, the master roller having the complete design thereon while the supplemental roller has an exact repeat of a portion of the design.

I illustrate the means for carrying out my method in the accompanying drawings, in which—

Figure 1, is a view of the master roller having the complete design thereon. Figs. 2, 3 and 4 are similar views of the supplemental rolls each having only a portion of the complete design thereon.

The master roller is marked 1, and is engraved with the complete design and therefore prints a single color design or pattern upon

the fabric. The first supplemental roller 2 for applying the next color is engraved with an exact "repeat" of only a part of the design of the master roller, so that the second color is printed upon corresponding parts of the foundation color of the complete design applied by the master roller. Other colors are applied in like manner by supplemental rollers 3 and 4 each engraved with an exact "repeat" of some portion of the entire design, so that each complete shade or color in the finished design or pattern, is obtained by layers of two or more colors and it will be understood that by this process in which a complete foundation is laid having all the lines going to make up a complete design, the character of the whole design may be changed by changing the color of the master roller or the character of any part of the design may be changed by changing the color on the supplemental roller carrying that part of the design.

I am aware that in the art of lithographic printing it is old to produce colored pictures by superimposing prints or impressions, one impression carrying the complete design and the other or others a repeat of a portion thereof, in a different color, but I am not aware that in the art of calico printing repeats of portions of a complete under print have ever been applied in a continuous process upon the under print.

I claim—

The herein described process of printing upon calico or other fabrics consisting in first printing a foundation in one color representing the entire design, or pattern and then printing in another color upon said foundation a fragment or fragments of the complete design and upon the corresponding parts of the foundation, the process being carried out in a continuous operation substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

CHARLES I. EDMONDSON.

Witnesses:

H. B. BARLOW,
S. W. GILLET.