

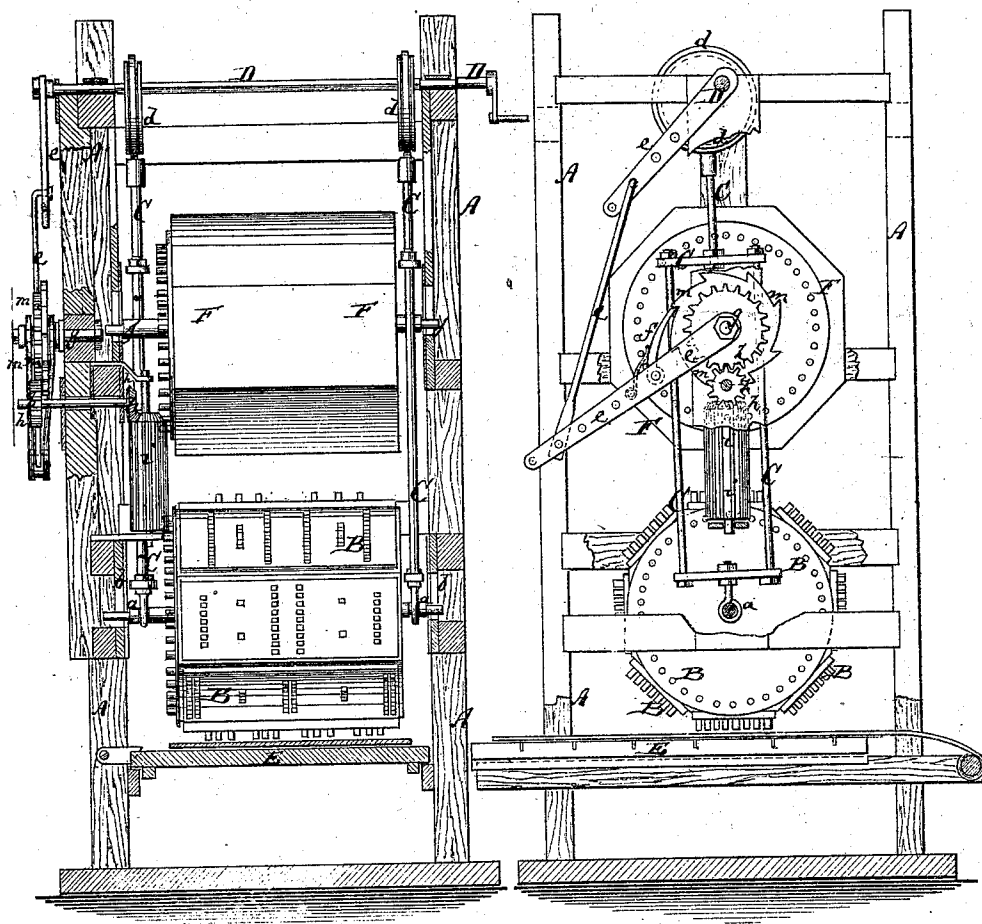
C. Rommel,
Printing Oil Cloth.

No. 113,570.

Patented April 11, 1871.

Fig. 1.

Fig. 2.



Witnesses:

G. Raettig.
Wm. H. C. Smith.

Inventor:
C. Rommel.

PER

Munn & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES ROMMEL, OF ELIZABETH, NEW JERSEY.

IMPROVEMENT IN OIL-CLOTH-PRINTING MACHINES.

Specification forming part of Letters Patent No. 113,570, dated April 11, 1871.

To all whom it may concern:

Be it known that I, CHARLES ROMMEL, of Elizabeth, in the county of Union and State of New Jersey, have invented a new and Improved Machine for Printing Oil-Cloth and other Fabric; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a side elevation, partly in section, of my improved machine for printing oil-cloth. Fig. 2 is an end elevation, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

My invention relates to machines which permit the successive printing by one cylinder of several colors upon the same fabric; and consists in the improvements hereinafter described, and subsequently specified in the claims.

A in the drawing represents the frame of my improved printing-machine. It is built of wood or other suitable material, of suitable size and shape, strong enough to sustain all the parts of the machine.

B is the printing-roller. It is of prismatic form, the drawing showing it octagonal in cross-section, although it may be made with more or less sides, according to the number of different colors to be applied.

The roller B has projecting gudgeons *a a* at the ends, which enter slotted plates *b b* of the main frame, and hang in vertical rods C C, which are suspended from eccentrics *d d* of a shaft, D.

The shaft D hangs in the upper part of the frame A, and can be revolved by suitable mechanism. Its rotation serves, by means of the said eccentrics, to alternately raise and lower the printing-roller.

The printing-bed E is below the roller, and the fabric is placed between the bed and printing-roller to receive an impression whenever the latter is lowered.

By means of suitable lever-connections *e e*, the shaft D serves also to vibrate a pawl, *f*, and

to thereby impart intermittent rotary motion to a wheel, *m*, and an arbor, *g*, which is hung in the side of the frame A. This arbor is, by suitable intermediate gearing *h h*, connected with an upright toothed wheel, *i*, which meshes into teeth formed at the end of the printing-roller.

When the roller B is being elevated, it is, by the gear-wheel *i*, also turned so as to bring another surface over the fabric, and is then lowered to print with such other surface. The several faces of the printing-blocks are provided with projecting pins for producing the desired design in the ordinary manner.

F is the coloring-roller. It is made of the same shape and size as the roller B, and provided with projecting gudgeons *j j*, which hang in the frame A, to be slightly vertically adjustable in the same.

The wheel *i* meshes also into teeth at the end of the roller F, and serves, therefore, to turn both B and F simultaneously and in equal degree.

Color is applied, by brush or otherwise, to the faces of the roller F, and transferred from the same to the surfaces of the roller B as the latter is elevated against F by the eccentrics.

A suitable catch may be provided on the machine for locking the printing-roller in the exact position for printing, and the weight of the said roller may be, to a certain extent, taken off the shaft D by means of suitable balance-weights.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The prismatic printing-roller B, combined with the color-roller F, of same shape, both being turned at equal intervals and in equal degree, as specified.

2. The printing-roller B, suspended from the shaft D to receive vertical motion, and connected with the wheel *i* for receiving intermittent rotary motion, substantially as set forth.

CHARLES ROMMEL.

Witnesses:

W. COOPER BOYLE,
E. S. WOODRUFF.