

UNITED STATES PATENT OFFICE.

MORITZ LAEMMEL, OF BAY RIDGE, NEW YORK.

IMPROVEMENT IN PRODUCING COLORED PRINTS ON PAPER AND OTHER FABRICS.

Specification forming part of Letters Patent No. 116,720, dated July 4, 1871.

To all whom it may concern:

Be it known that I, MORITZ LAEMMEL, of Bay Ridge, in the county of Kings and State of New York, have invented a new and useful Improvement in Producing Colored Prints; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same.

This invention consists in printing many-colored designs at one operation by means of a block made in sections, each section corresponding to one of the colors of the design to be produced, so that, when said block is depressed on paper or other material, each section of the same will produce an impression in that color which it represents. The block used in carrying out this invention is, by preference, composed of sections made of resin, colored as required, and brought in the required shape by dies or molds corresponding to the various designs to be produced.

In carrying out my invention I take resin, heat it, and thin it with spirit of turpentine; then I mix the mass with coloring matter, one portion being made blue, another red, another green, and so on according to the work to be produced. After the coloring matter has been uniformly mixed with the solution of resin I evaporate the spirit of turpentine to such an extent that the colored resin assumes the state of hard bees-wax; then I heat it slightly and form the various colors in blocks of the desired shape, and these blocks I combine into one block, which is set in a metal frame of the required form. The block thus produced shows on its face the color of all the sections

used to form the same, and when this face has been ground off the block is ready for printing.

The paper on which I print from my combination block is slightly dampened with spirit of turpentine, and when the face of the block is depressed on the dampened paper the coloring matter adheres to the paper and a print is produced showing all the colors on the block. The metal frame which embraces the printing-block must be so constructed that it slides back as the block wears off. The surface of the print may be protected by a coat of albumen or other suitable material, so that spirit of turpentine will not wash off the color.

It is obvious that other materials might be used for preparing the blocks besides resin; and I do not confine myself to any particular material, though I find that a block prepared as above described gives a good result.

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

1. A block for printing many colors at one operation, said block being produced of sections made of resin, colored as required, and brought in the required shapes, all as set forth.

2. The method, herein described, of printing many-colored designs at one operation by means of a block made in sections, each section corresponding to one of the colors of the design, substantially as herein set forth.

MORITZ LAEMMEL.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.