

UNITED STATES PATENT OFFICE.

ROBERT MIEGEL, OF EAST ORANGE, NEW JERSEY.

PROCESS OF ORNAMENTING THE EDGES OF BOOKS, &c.

SPECIFICATION forming part of Letters Patent No. 763,196, dated June 21, 1904.

Application filed April 13, 1903. Serial No. 152,339. (No specimens.)

To all whom it may concern:

Be it known that I, ROBERT MIEGEL, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented and produced a new and original Improvement in Processes of Ornamenting the Edges of Books, Pads, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The objects of this invention are to reduce the cost of providing on the edge of books, pads, and similar articles a variegated effect of coloring, to secure a novel ornamentation, and to obtain other advantages and results, some of which may be referred to hereinafter in connection with the description of the details of the process.

The invention consists in the improved process of ornamenting the edges of books, &c., all substantially as will be hereinafter set forth and finally embraced in the clauses of the claim.

In carrying the invention into effect or practice I first, after folding the paper to form the book or pad and cutting the edges to secure a smooth surface at the edges of the leaves, apply to said smooth surface a solution of prepared paint or color, commonly known on the market as "acid-green," said to be an extra strong aniline body color. The chemical name of said body color is said to be phenylamin, ($C_6H_5NH_2$), an organic base obtained from coal-tar. The edges of the book are thus given a solid green body color, and the same are allowed to dry. I then spray upon said edges a watery solution or mixture of chlorid of lime, preferably containing acetic acid, said solution, as preferred, consisting of two quarts of water, one pound chlorid of lime, and three drops acetic acid in solution. The application of this solution or mixture to the body color by spraying serves to decolorize

the body color where the spray-drops strike, thus giving the surface a mottled effect desirable for the purpose, and because of the cheapness of the decoloring or bleaching mixture and the ease of its application the results obtained are of economic advantage.

The spraying device employed may be an ordinary hollow rubber bulb having a mouth or opening through which the decolorizing liquid may be forced by compression.

Other body colors may be employed, and in that event other decolorizing solutions may be substituted for the one detailed. I may dispense with the acetic acid in the preferred mixture with fair results; but for the best results I prefer the specific mixture detailed. The proportions may be modified without great detriment.

What I claim as new is—

1. The process of producing variegated edges on books or pads, which consists in applying to the edge surfaces a body color of acid-green, then spraying upon said body color a solution containing chlorid of lime.

2. The process of producing variegated surfaces, which consists in applying a body color of acid-green, then after drying, spraying a solution containing chlorid of lime and acetic acid, substantially as set forth.

3. The process of finishing the edges of books, consisting essentially of folding the paper to form a series of leaves, cutting the edges of said leaves to secure a smooth surface, applying to said edges a body color of acid-green in solution, then drying the said applied coloring and applying a solution containing chlorid of lime and acetic acid.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of April, 1903.

ROBERT MIEGEL.

Witnesses:

CHARLES H. PELL,
C. B. PITNEY.