

UNITED STATES PATENT OFFICE.

SIEGISMUND LOEWENTHAL, OF ACTON, COUNTY OF MIDDLESEX, ENGLAND.

MANUFACTURE OF ORNAMENTAL WALL-COVERING, LEATHER-CLOTH, &c.

SPECIFICATION forming part of Letters Patent No. 327,286, dated September 29, 1885.

Application filed July 6, 1885. (No specimens.) Patented in England June 14, 1884, No. 9,025.

To all whom it may concern:

Be it known that I, SIEGISMUND LOEWENTHAL, a subject of the Queen of Great Britain, residing at Acton, Middlesex, England, have invented new and useful Improvements in the Manufacture of Ornamental Wall-Coverings, Leather-Cloth, and the Like, and in compositions used therein, (for which I have obtained a patent in Great Britain, No. 9,025, bearing date June 14, 1884,) of which the following is a specification.

The object of this invention is to compound certain ingredients together to form a plastic adhesive body capable of being spread or rolled upon a canvas or other backing to any desired thickness, and which can be printed in plain or many colors, or metallized to produce ornamental or decorative effects, either plain or embossed, and with or without an exterior or surface sheet of canvas, according to the use the material so prepared is intended for.

The material is particularly adapted for wall decoration, imitation leather, floor-cloth, and other useful purposes. For this purpose I employ a composition of which African flake is the chief ingredient. I spread this composition upon a fabric, paper, or card-board, and after a pattern is printed on its surface, by means of blocks, rollers, or any other known process, I cause the material to be embossed by means of a die and pressure or rollers on the surface of which a design is engraved. The material is after this hung in a heated room for a considerable period in order to get dry.

The compound is composed of one hundred pounds of African flake, ten pounds of rubber, one hundred pounds of rubber substitute, ten pounds of ozocerite, one hundred-weight of infusoria, and one hundred-weight of wood-pulp or ground cork. Add to this two and one half per cent. of sulphuric acid and five per cent. muriatic acid. All these materials in their various proportions I mix in a mixing-machine, and after amalgamating them thoroughly I spread the compound on fabric, paper, or card-board, by means of a calender, to a suitable thickness. In some cases I spread a very light fabric on the surface of the compound.

This can be printed in the same manner as wall-papers are generally printed, and when the colors are thoroughly dry I bring the whole under a press, on the top platen of which an engraved die is secured corresponding with the pattern printed on the surface of the material. I place the printed pattern directly under the die, and by means of the pressure caused by the press I emboss the printed pattern on the material. On floor-cloth I omit the latter process. On leather-cloth I emboss the material either with or without the printed pattern, which is also the case with wall decorations when desirable. After this process is completed I expose the material to a heat of from 80° to 180° Fahrenheit.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. The hereinbefore-described process of ornamenting fabrics, consisting in applying to the surface thereof a compound composed of African flake, rubber, rubber substitute, ozocerite, infusoria, wood-pulp or ground cork, and sulphuric and muriatic acids in about the proportions specified, then printing upon the same patterns or designs, and finally drying the printed fabrics, substantially as set forth.

2. The process hereinbefore described of ornamenting fabrics, consisting in applying to the surface thereof a compound composed of African flake, rubber, rubber substitute, ozocerite, infusoria, wood-pulp or ground cork, and sulphuric and muriatic acids in about the proportions specified, then printing patterns or designs thereon, then embossing the same by means of dies or rolls having thereon designs or patterns corresponding with the printed designs or patterns, and finally drying the fabric, substantially as set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

SIEGISMUND LOEWENTHAL.

Witnesses:

RICHARD CORE GARDNER,

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Both of 166 Fleet Street, London, E. C.