

UNITED STATES PATENT OFFICE.

ALEXANDER COLLINS, OF TARKIO, MISSOURI.

WALL-PAPER.

SPECIFICATION forming part of Letters Patent No. 332,054, dated December 8, 1885.

Application filed October 1, 1885. Serial No. 173,759. (Specimens.)

To all whom it may concern:

Be it known that I, ALEXANDER COLLINS, a citizen of the United States of America, residing at Tarkio, in the county of Atchison and State of Missouri, have invented certain new and useful Improvements in Wall-Papers; 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.

My invention relates to certain new and useful improvements in wall-papers, the object of the same being to provide a wall-paper provided on one side with a coating which is air-tight and water-proof, and which will render the paper mildew-proof, thus providing the paper which can be cleansed by washing at any time with acid or other cleansing solutions without detriment to the coating, and which coating is adapted to receive the ornamentations, either in oil or water colors, or the same medium used in the coating by either the printing process or those employed by decorators, without further treatment.

My invention also consists in providing the paper which will have a stippled surface, the raised and depressed portion of said stippled surface being only on one side of the paper, and not indented or pressed in the same; and to this end my invention consists in providing a wall-paper as a new article of manufacture, the construction of which will be hereinafter specifically set forth and claimed.

In preparing my improved wall-paper I make use of the backing or paper such as is ordinarily manufactured for analogous purposes, and apply to one side of the same by means of an apparatus or machine consisting of a series of cylinders which revolve rapidly and carry the paper under a tank which contains the paint or composition, which is distributed over the paper by the use of gages or scrapers, the pores of the paper being thoroughly filled, then passed under a set of rollers to receive different coats or coverings, after which the paper is dried and is then ready for use. The composition which I employ in manufacturing my improved wall-paper is composed of paraffine-wax, benzine, and gum-resin, or other suitable ingredients for hardening the wax. The above ingredients are incorporated or mixed with pulverized

starch and pigments to give color and body to the composition.

To prepare the composition for application to the paper, I melt about twenty-four ounces of paraffine-wax in a two-gallon vessel, which is placed in a receptacle containing water, said outer receptacle being placed over the fire. After the melting of the wax is complete I add thereto by degrees one-quarter of a gallon of benzine, and then add thereto by degrees about one gallon of the gum-resin or varnish. In this I mix the starch and pigments, and thin down to the required consistency by the addition of benzine and pigments.

The composition hereinbefore described is placed in a tank belonging to the machine, and the paper to receive the preparation is moved forward, and as it passes the tank receives an even covering of the composition, which is deposited thereon so as to produce a stippled surface. This stipple effect is given to the paper without indenting its surface, and provides a wall-covering the surface of which is neither glossy nor flat, and possesses a soft, velvety effect, which is considered very desirable.

A wall-paper constructed in accordance with the above description can be readily decorated, either with oil, water-colors, or other substances, before or after application to the wall without special treatment, and the composition, being water-proof, gives to the paper a surface which may be readily cleansed or washed without detriment to the same, and the paper after manufacture can be rolled and handled after the manner of ordinary paper.

The composition with which the paper is treated is applied or laid on so as to give a stippled, rough, or matted surface to the paper, which may be placed over a flat surface, and the elevated portion of the composition on the paper will have a somewhat lustrous surface, while the lower portions are comparatively dead, and serve or form a foil for the raised or lustrous surface. The stippled surface may be laid on the paper so as to imitate the grain of woods or leather.

I claim—

1. The improved wall paper or hanging herein described, consisting of a paper or fabric backing provided on one side with a coat-

ing of water-proof material laid on the same so as to have a stippled surface, substantially as described.

2. The improved wall - paper herein described, treated on one side with a composition consisting of paraffine-wax, benzine, resin, or its equivalent, starch, and pigments, applied to one surface of the paper in a stip-

pled or uneven manner, for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALEXANDER COLLINS.

Witnesses:

J. H. TORLEY,

J. M. SUMNER.