

# UNITED STATES PATENT OFFICE.

JAMES ALLAN SACKVILLE, OF MANCHESTER, ENGLAND.

MANUFACTURE OF BOOK-CLOTH, LEATHER-CLOTH, OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 724,616, dated April 7, 1903.

Application filed August 29, 1902. Serial No. 121,538. (No specimens.)

*To all whom it may concern:*

Be it known that I, JAMES ALLAN SACKVILLE, a subject of the King of Great Britain and Ireland, and a resident of Pendleton, Manchester, England, have invented certain new and useful Improvements in the Manufacture of Book-Cloth, Leather-Cloth, or the Like, of which the following is a specification.

This invention relates to the manufacture of book-cloth, leather-cloth, and like goods—i. e., materials upon which filling and coloring-matter are applied by a padding-machine.

Heretofore albumen, starch, and other expensive fixing and stiffening substances have been used; but according to this invention I substitute for the said substances what is commercially known as "viscose," (cellulose sulfocarbonate,) which is very cheap and serves both as a mordant and stiffening agent. It is also more effective than ordinary mordants, and as applied in accordance with my invention it greatly cheapens and expedites the padding.

In proceeding to carry out my invention I first bleach the viscose by bisulfite of soda or bisulfite of lime, and I then prepare a solution of the bleached viscose and water to the thickness and bulk desired—say ten parts of viscose and one hundred parts water. To such solution I add the minerals—such as oxid of zinc, china-clay, &c.—commonly used for padding and the coloring-matter or pigments, according to the coloring and amount

of padding to be done, the whole being thoroughly mixed before using. I then pad the mixture onto the cloth in any suitable padding-machine, afterward, if necessary, applying a coating of viscose for fixing the surplus color. I then pass the padded fabric through a steaming-box, as commonly used by calico-printers, or through a bath of acetic acid or the like to fix the padding, finally drying the fabric, or, if necessary, washing with water and then drying.

Obviously the filling and coloring-matter may vary with the goods to be produced; but in all cases my invention consists in mixing such matter with the viscose and applying the mixture to the fabric in a padding-machine, the advantages being cheaper production, greater output, and better padding.

What I claim is—

In the manufacture of book-cloth, leather-cloth and the like, a process of padding, consisting in mixing viscose in solution with the filling and coloring-matter to the consistency required for padding, then padding the mixture onto the fabric by a padding-machine, and then fixing, washing and drying, as set forth.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JAMES ALLAN SACKVILLE.

Witnesses:

WALTER GUNN,  
JOHN CAMP.