

UNITED STATES PATENT OFFICE.

CHARLES GREEN, OF UXBRIDGE, MASSACHUSETTS, ASSIGNOR TO ALBERT C. WARREN, OF NEWTON, AND GEORGE L. STEVENS, OF BOSTON, MASSACHUSETTS.

COMPOSITION FOR TREATING TEXTILE FABRICS.

SPECIFICATION forming part of Letters Patent No. 644,670, dated March 6, 1900.

Application filed July 3, 1899. Serial No. 722,674. (No specimens.)

To all whom it may concern:

Be it known that I, CHARLES GREEN, a citizen of the United States, residing at Uxbridge, in the county of Worcester and State of Massachusetts, have invented a new and useful Composition for Use in the Treatment of Textile Fabrics, of which the following is a full, clear, and exact description.

The invention relates to a composition for the treatment of textile fabrics, and especially for the purpose of fulling, filling, closing, softening, giving additional body, and both brightening and enveloping their colors and improving their appearance and finish. It comprises a mixture of chlorid of magnesium, chlorid of sodium, and chlorid of ammonium, either in their dry forms or in solution. I prefer the former reduced to a granulated state and mixed together. In lieu of chlorid of ammonium aqua-ammonia or ammoniacal gas may be used.

I prefer to use in the composition about forty parts of chlorid of magnesium, one hundred and sixty parts of chlorid of sodium, and two parts of chlorid of ammonium; but these proportions may be varied to any reasonable or desirable extent without departing from the spirit of the invention.

In use the composition if dry is dissolved in water or if in solution water is added to it and the textile fabric to be treated is saturated with it, whereby the fibers and threads are caused to absorb the same and to be swollen by it. The surplus is removed by pressure or an extractor and the fabric then dried; but the fibers and threads are left in their enlarged or swollen condition and in a softened state. These ingredients may be mixed together in their dry state or in solution and the water then added to them, or they may be mixed originally with the water necessary, the quantity of which may vary, according to the result which it is desired to attain.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

The composition for the treatment of textile fabrics herein described, the same consisting of chlorid of magnesium, chlorid of sodium and chlorid of ammonium, dry or in solution, and in about the proportions stated.

CHARLES GREEN.

Witnesses:

F. F. RAYMOND, 2d,
J. M. DOLAN.