No. 785,110. Patented March 21, 1905.

UNITED STATES PATENT OFFICE.

THOMAS E. KINNEY, OF WAVERLY, OHIO.

COATED OR IMPREGNATED FABRIC AND METHOD OF MAKING SAME.

SPECIFICATION forming part of Letters Patent No. 785,110, dated March 21, 1905.

Application filed December 8, 1904. Serial No. 236,015.

To all whom it may concern:

Be it known that I, THOMAS E. KINNEY, a citizen of the United States, residing at Waverly, in the county of Pike and State of Ohio, have invented certain new and useful Improvements in Coated or Impregnated Fabrics and Methods of Making the Same, of which the following is a specification.

This invention relates to coated and impregnated fabrics, and has for its object to produce an improved fabric which is particularly adapted for use in the manufacture of gloves and mittens.

In the preferred embodiment of my invention the fabric to be treated, preferably cotton ticking, coverts, fleeced cotton duck, or other cotton fabric, is subjected to the action of a heated bath containing approximately ninety parts of paraffin, two and one-half parts of tallow, two and one-half parts of beeswax, two and one-half parts of rosin, two and one-half parts of linseed-oil, and from one hundred to two hundred parts of water. The bath is maintained at a sufficiently-high temperature to keep all of the ingredients in a melted condition, preferably at or about 212° Fahrenheit. The fabric may be coated or impregnated with the processing mixture in any well-known manner, a convenient and satisfactory method being to pass the fabric through a vat containing the heated liquid or semiliquid mixture and then as the fabric issues from the vat pass it between heated rolls, which remove the surplus liquid and thoroughly press the coating material into the interstices of the fabric. The treated fabric is then hung in the dry-house until all the water has been evaporated.

Fabrics treated in accordance with my process are not only permanently water-resisting, but exhibit greatly-increased durability by reason of the treatment. Furthermore, the paraffin mixture will not crumble and loosen from the fabric under any amount of bending or hard usage however low the temperature, and the treated fabric has been found to possess a degree of permanency and unalterability hitherto unattained.

It is to be understood that my process is not limited to the treatment of the fabrics mentioned nor to the production of material for the uses stated. My improved process is adapted for increasing the durability and water-resisting properties of any fabric for use for any purpose desired. It is further to be understood that my invention is not restricted to the use of the proportions of the ingredients given nor to the use of all of the ingredients together. While the ingredients and the proportions stated are those which I prefer to employ, I may substitute known equivalents for the materials mentioned, vary the proportions of the ingredients, and in some cases omit one or more of the latter, as specifically detailed in certain of the appended claims, without departing from the spirit of my invention or the scope of the protection for which application is hereby made.

Having thus described my invention and the best method known of carrying the same into practical effect, what I claim, and desire to secure by Letters Patent, is—

1. The process of treating fabrics which consists in subjecting them to the action of a heated bath containing paraffin and a wax.

2. The process of treating fabrics which consists in subjecting them to the action of a heated bath containing paraffin, a wax and non-volatile oil.

3. The process of treating fabrics to render them waterproof and increase their durability which consists in subjecting them to the action of a heated bath containing paraffin, tallow, beeswax, rosin, linseed-oil and water and drying the said fabrics.

4. A fabric coated or impregnated with a waterproofing mixture containing paraffin and a wax.

5. A fabric coated or impregnated with a waterproofing mixture containing approximately ninety per cent. paraffin, two and one-half per cent. tallow, two and one-half per cent. beeswax, two and one-half per cent. rosin and two and one-half per cent. linseed-oil.

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

THOMAS E. KINNEY.

Witnesses:

EDGAR M. GREGG,

JOSEPH B. KINNEY.