

UNITED STATES PATENT OFFICE.

NORMAN COOK, OF NEW YORK, N. Y.

MODE OF FIXING THE COLORS OF COTTON UMBRELLAS.

Specification forming part of Letters Patent No. **10,308**, dated December 13, 1853.

To all whom it may concern:

Be it known that I, NORMAN COOK, of the city, county, and State of New York, have invented a new and useful Improvement in the Manufacture of Cotton and Gingham Umbrellas; and I do hereby declare that the following is a full, clear, and exact description of the same.

The object of my invention is to prevent the color of cotton and gingham coverings of umbrellas from running out when the umbrella is exposed to rain, as is now the case with all coverings made of those materials.

The nature of the invention consists in applying to the cotton or gingham covering, after the completion of the umbrella, a sizing of diluted gum, india-rubber, paste, or cement, which, filling the pores of the cloth, enables the coloring to retain its color under the circumstances, which at present cause the fading of the cotton and gingham. The covering is stretched over the umbrella-frame in the usual manner, and when entirely completed, as usually manufactured, I apply to the surface a sizing of gum, india-rubber, paste, or cement and turpentine in the proportion of thirty ounces of cement to one gallon of spirits of turpentine, which so envelops the fibers composing the cotton and gingham as to prevent the color from running when the umbrella is exposed to the action of rain. One or two coatings of this sizing is given, inside as well as out, if desired, though generally one coat on the outer surface of the covering is sufficient to render the umbrella equal to those having the best of silk coverings. The composition is well shaken before application, and is put on with a brush.

The manufacture of umbrellas prevents the use of any of the water-proof cloths now known, as they are all too stiff and hard for the process of forming the covering, and too heavy, even if they could be used. Neither could the cotton or gingham be covered with the sizing I employ before the umbrella is completed with any beneficial results, for the reason that the shape of the umbrella is arrived at by repeated stretchings, rubbings, and other manipulations of the cover, all of which would destroy the effect of any such preparation.

My invention thus consists in taking the cotton or gingham umbrella in what is now supposed to be its finished state and applying to it my preparation of cement for preventing the running of the color, which now renders the use of cotton and gingham so far inferior to silk as a covering for umbrellas.

I do not claim the composition of the preparation applied, neither do I claim the application of such preparation for rendering cloth water-proof; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The application of a dilute solution of india-rubber, paste, or cement, substantially as herein described, to cotton or gingham umbrella-coverings for the purpose of enveloping the fiber of the cloth and setting the color of the same without adding to the weight of the umbrella, as herein fully set forth.

NORMAN COOK.

Witnesses:

THOMAS EDGAR,
JOSEPH W. COOK.