

# UNITED STATES PATENT OFFICE.

AUGUSTE WISSEL, LOUIS GIRARD, AND JOSEPH BRUNIER, OF NEUVILLE-SUR-SAÔNE, FRANCE.

## ORNAMENTATION OF VELVET.

SPECIFICATION forming part of Letters Patent No. 556,794, dated March 24, 1896.

Application filed November 18, 1895. Serial No. 569,352. (No specimens.)

*To all whom it may concern:*

Be it known that we, AUGUSTE WISSEL, LOUIS GIRARD, and JOSEPH BRUNIER, trading as WISSEL ET CIE, citizens of the French Republic, and residents of Neuville-sur-Saône, France, have invented an Improved Method of Treating or Ornamenting Velvet and other Fabrics, of which the following is a specification.

10 The object of this invention is to produce various designs upon pile fabrics, such as velvet, by taking away or removing the pile or surface of certain parts of the fabric, while leaving intact the groundwork, backing or  
15 canvas.

This invention is performed by means of plates, platens or rollers cut in relief, or by brushes or other means of application, by which there may be applied to the desired  
20 parts chemical destructive or removing solutions or liquids, by the action of which the pile or surface may be destroyed or removed wholly or in part.

The chemical remover that we generally  
25 employ is, first, for silk or wool, a basic alkaline product, such as potash or caustic soda or the like; second, for cotton, a mixture of oxalic and sulphuric acids.

30 The proportions of the ingredients in the solvent depends upon the nature of the thickening substance (gum, dextrine, starch) employed and the quality and quantity of the

cotton or the like to be removed. The average proportion is thirty grams of oxalic acid to one hundred grams of thickening substance and forty grams of sulphuric acid to one hundred grams of the said substance; but these proportions are very variable and are best found by experiment with regard to the particular stuff on which the process is  
40 to be carried out and the effect desired. We may, however, use other liquids having the same effect.

To vary the ornamentation thus obtained, we may stamp, impress or print other designs  
45 upon the goods so treated, either upon the relief or the ground.

We claim as our invention—

The method of treating pile fabrics wherein the pile is of a different material to the background, consisting in applying to portions of  
50 said pile a liquid adapted to destroy the same while leaving the background intact for the purpose of removing the pile from such portions.

55 In witness whereof we have signed this specification in presence of two witnesses.

AUGUSTE WISSEL.  
LOUIS GIRARD.  
JOSEPH BRUNIER.

Witnesses:

FRANK E. HYDE,  
MARIUS VACHON.