

# UNITED STATES PATENT OFFICE.

GUSTAV FELDMANN, OF BERLIN, GERMANY.

PROCESS FOR DYEING GRANULATED LEATHER IN DIFFERENT COLORS OR SHADES.

No. 854,032.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed July 11, 1906. Serial No. 325,727.

*To all whom it may concern:*

Be it known that I, GUSTAV FELDMANN, leather merchant, a subject of the German Emperor, and a resident of Burgstrasse 24, Berlin, Germany, have invented certain new and useful Improvements in Processes for Dyeing Granulated Leather in Different Colors or Shades, of which the following is a specification.

A process is already known by means of which it is possible in two dyeings to produce designs on the surface of leather, and even to imitate the granulation of leather by a special design on the surface. For this purpose were therefore made plates or rollers carrying the desired design, which was printed on the leather by the use of a fatty medium. Then when the leather was dyed, the places covered with fat remained free from color, and after the removal of the fat showed the ground shade of the leather. This process could only be applied to leather with a smooth surface. A process is also known in which granulated leather is rubbed over with a solution of shellac in spirit, and the leather then dyed, the shellac coating being then removed by warm water; by brushing, or by the application of a solution of tartar and the granulation removed by pressing. This process has been used particularly for producing a marble effect upon the leather. The present process however is particularly intended to accentuate the natural and artificial granulation of leather by dyeing the crevices a different color to the raised places, and for this purpose the raised places of the granulation must first be covered with a protective coating, and the leather then dyed; whereby the crevices only receive the dye.

In the present process a new material is employed which avoids the disadvantages of the above processes. By means of the new process naturally or artificially granulated leather can be fast dyed in different colors or shades, without the granulated surface being in any way injured or destroyed. Various artistic effects can be produced, particularly an accentuation of the granulation.

The process consists in treating the leather by hand with an impregnating material, rich in fat, in such a way that the raised places on the granulated surface are coated with the same, the indentations or crevices on the other hand remaining absolutely free. The leather so treated may have its original

natural tint, or it may have been previously dyed.

The treatment by hand is an important feature of the process, because the granulated surface is in no way injured, and a uniform distribution of the impregnating material on the raised places is produced.

As impregnating material some material rich in fat is used, such as a mixture of equal parts of grease and wax, which either completely prevents the penetration of the color on the raised places, or greatly impedes it.

The impregnating material should be of a solid or semi-solid consistency so that it does not spread or penetrate into the crevices of the granulation.

After the impregnation the leather is dyed or after-dyed in the ordinary way, in which treatment either the same, or another shade, or another color can be applied. The raised places on the granulated surface, treated with the impregnating material, appear after the dyeing in lighter or other shades in contrast with the indentations or crevices, according as the leather is dyed after the impregnation with the same, or another shade, or color.

The advantages of this process is that by a suitable choice of colors, the granulation of the leather can be accentuated or modified to produce various special effects.

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

1. A process for dyeing granulated leather in different colors, or shades, consisting in impregnating the raised places of the granulated surface of the leather with a material rich in fat, followed by a dyeing of the leather with a suitable color, substantially as and for the purpose set forth.

2. A process for dyeing granulated leather in different colors, or shades, consisting in impregnating the raised places of the granulated surface of the leather with a semi-solid material rich in fat, followed by a dyeing of the leather with a suitable color, substantially as and for the purpose set forth.

In testimony whereof I have hereunto signed my name this 30th day of June 1906, in the presence of two subscribing witnesses.

GUSTAV FELDMANN.

Witnesses:

HENRY HASPER,  
WOLDEMAR HAUPT.