

# UNITED STATES PATENT OFFICE.

PATRICK J. HANLON, OF SEATTLE, WASHINGTON, ASSIGNOR TO SUNLIGHT CURTAIN COMPANY, A CORPORATION OF CALIFORNIA.

## PROCESS FOR MANUFACTURING MOVING-PICTURE SCREENS.

986,385.

Specification of Letters Patent.

Patented Mar. 7, 1911.

No Drawing.

Application filed October 11, 1910. Serial No. 586,520.

*To all whom it may concern:*

Be it known that I, PATRICK J. HANLON, a citizen of the United States, residing at Seattle, in the county of Kings and State of Washington, have invented a certain new and useful Process Known as a "Process for Manufacturing Moving-Picture Screens," of which the following is a specification.

This invention has for its object to provide a new and useful compound which is used in treating a fabric to be used as a screen or curtain on which to display pictures produced by a stereopticon or moving picture machine.

In order to set forth the use of the compound, the process in which it is used will be briefly described.

A cloth or canvas, preferably of a light color and grade is treated with a solution by saturating the same with a spray, after which it is shrunk and stretched. The solution referred to is formed of the following ingredients:

|                                          |                     |
|------------------------------------------|---------------------|
| Common pulverized alum.....              | $\frac{1}{2}$ ounce |
| Chemically pure pulverized aluminum..... | $\frac{1}{2}$ pound |
| Common pulverized dry white zinc.....    | 3 pounds            |
| Water.....                               | 5 gallons           |

The cloth or canvas treated with the solution and allowed to dry and shrunk and stretched as hereinbefore set forth is again treated by being saturated with a spray of a solution composed of the following ingredients:

|                                       |          |
|---------------------------------------|----------|
| Sandarac gum.....                     | 1 pound  |
| 72 per cent. proof benzin.....        | 1 gallon |
| Common pulverized dry white zinc..... | 2 pounds |
| Common pulverized aluminum.....       | 1 pound  |

After being allowed to dry thoroughly, the cloth or canvas is again shrunk and stretched. The cloth or canvas is then subjected to a common ironing process until the desired gloss or finish is obtained.

As a result of this process hereinbefore set

forth, a fabric is provided which is impregnated with a compound containing aluminum and having a silvery-like surface. It has been found in practice that moving and other pictures thrown upon a screen or curtain formed of this fabric are shown with great clearness and the colors of the pictures are brought out with great faithfulness and distinctness, and with much better results than where an ordinary cloth, screen or curtain is used.

The use of the fabric is not restricted to screens or curtains for moving pictures and other pictures displayed thereon, but may be used as a waterproof material for roofing and other purposes.

Having described the invention, I claim:—

1. The process of producing a fabric of the character described which consists in saturating a fabric with a solution of alum, aluminum, zinc and water, curing the saturated fabric, then shrinking and stretching the same, then saturating the fabric with a solution of sandarac gum, benzin, zinc and aluminum, then curing the fabric, and then shrinking and stretching the same, and then ironing the surface thereof.

2. The process of producing a fabric of the character described, which consists in saturating a fabric with a solution of common pulverized alum,  $\frac{1}{2}$  ounce, chemically pure pulverized aluminum  $\frac{1}{2}$  pound, common pulverized dry white zinc 3 pounds, water 5 gallons, then curing the fabric and shrinking and stretching the same, then saturating the fabric with a solution of sandarac gum 1 pound, 72 per cent. proof benzin 1 gallon, common pulverized dry white zinc 2 pounds, common pulverized aluminum 1 pound; then curing the fabric; then shrinking and stretching it, and then ironing its surface.

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

PATRICK J. HANLON

Witnesses:

H. C. SCHIROEDER,  
F. P. SCHIROEDER.