

UNITED STATES PATENT OFFICE.

CLAUDE ANTOINE PROTON AND JOANNY GABRIEL BRUYÈRE, OF LYON, FRANCE.

CINEMATOGRAPHIC AND THE LIKE PROJECTION SCREEN.

No Drawing.

Application filed December 17, 1921. Serial No. 523,228.

To all whom it may concern:

Be it known that we, CLAUDE ANTOINE PROTON and JOANNY GABRIEL BRUYÈRE, both of Lyon, France, citizens of the French Republic, have invented certain new and useful Cinematographic and the like Projection Screens, of which the following is a specification.

Fabrics for dresses are known in which either the warp or the weft are formed of metallic thread, and by reason of their use these fabrics are only woven of narrow width.

The present invention has for its object the application of such fabrics to screens for use in the projection of cinematographic or fixed pictures.

In view of this application the fabrics are woven of great width even up to a width of five meters or more. The warp is generally of metallic thread and the weft of cotton or other fabric, but the weft can be metallic and the warp fabric, or both the warp and weft may be of metallic thread only or of metallic threads mixed with textile threads.

The metallic threads may be round, flat or twisted. The best results are however obtained with gimp threads that is to say threads having a textile core and a metallic covering. The metallic thread is preferably made of copper, silvered or gilded. To prevent oxidation of the metal threads, they can be protected either by operating on the metal threads before they are woven or by spraying or otherwise applying a protecting liquid on the fabric.

When the fabric is woven it is passed between cylinders which crush the metal, also the fabric may be gaufered, that is to say, given a kind of grain, these two operations being effected simultaneously or separately.

Screens thus constructed have great luminosity and are particularly suitable for pho-

tographic and cinematographic projections in black or colours.

What we claim as our invention and desire to secure by Letters Patent of the United States is:

1. A method of manufacturing a cinematographic or the like projection screen consisting in weaving a fabric of mixed textile and metallic threads and then rolling the woven fabric to crush the metallic threads.

2. A method of manufacturing a cinematographic or the like projection screen consisting in weaving a fabric of mixed textile and metallic threads, and rolling the woven fabric to crush the metallic threads and impart a grain to the fabric.

3. A method of manufacturing a cinematographic or the like projection screen, consisting in weaving a fabric of mixed textile and metallic threads, rolling the woven fabric to crush the metallic threads and coating the metallic threads with an anti-oxidation liquid.

4. A method of manufacturing a cinematographic or the like projection screen, consisting in weaving a fabric of metallic covered threads, rolling the woven fabric, graining the fabric and coating the same with an anti-oxidation liquid.

5. A method of manufacturing a cinematographic or the like projection screen, consisting in weaving a fabric of textile threads and metallic covered, plated threads, rolling the woven fabric, graining the fabric and coating the same with an anti-oxidation liquid.

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

CLAUDE ANTOINE PROTON.
JOANNY GABRIEL BRUYÈRE.

Witnesses:

JULIAN KEMBLE LINEBERG,
JEAN GERMAIN.