

UNITED STATES PATENT OFFICE.

HENRY CLAY COYLE AND HARRY E COYLE, OF CANTON, OHIO.

STEREOPTICON-SCREEN AND PROCESS OF PRODUCING THE SAME.

1,007,340.

Specification of Letters Patent.

Patented Oct. 31, 1911.

No Drawing.

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To all whom it may concern:

Be it known that we, HENRY CLAY COYLE and HARRY E. COYLE, citizens of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Stereopticon-Screens and Processes of Producing the Same; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make the same.

Our invention relates particularly to the process of making screens upon which are to be exhibited pictures and especially a series of pictures, representing successive phases of motion in such manner and order of succession as to produce the illusion of a moving picture; but it will be understood that a screen produced or made in accordance with our process can be employed for exhibiting pictures brought into view or into the field of a lens and by rays of light thrown or projected upon the screen.

The object of the present invention is to produce a screen which does away with the bad yellow light which is often caused from the light employed and at the same time to increase the brilliancy and plainness of the pictures thrown upon the screen and at the same time to increase the clearness and distinctiveness of the picture or pictures.

A further object is to provide practically a fire proof screen, one through which the rays of light cannot penetrate, thereby, destroying to a certain extent the clearness and distinctiveness of the picture or pictures.

The sheet constituting the screen is preferably made up of ordinary and common fabric, such as now used, which sheet is cut to or made of the size desired which may be of any suitable size.

By our improved process we employ pulverized glue, salt, alum and washing soda in about the following proportions: 1 pound of glue, 2 pounds of salt, 1 pound of alum, and 1 pound of washing soda, which ingredients are dissolved by the use of about two gallons of distilled water, all of which is brought to substantially boiling heat. The screen is impregnated with the com-

position thus produced after which the screen is submitted to a slow drying process for a period of about twelve hours, after which the screen is again coated with the composition above mentioned, to which composition is added a sufficient amount of aluminum bronze to produce a mixture which will give to the mixture a body about equal to ordinary paint. With this mixture the screen is coated upon both sides after which the screen is submitted to a slow drying process for a period of about twenty-four hours.

By the employment of the above described process we are enabled to produce a screen for the purpose designed that will be practically opaque but at the same time the surface of the screen will have an increased brilliancy, which brilliancy adds very materially to the brilliancy and distinctiveness of the picture or pictures displayed upon the screen. By the process above pointed out we are also enabled to provide and to produce a screen that will be flexible and one that can be operated in the usual manner.

Having fully described our invention what we claim as new and desire to secure by Letters Patent, is—

The process of producing stereopticon screens which consists, first in applying to the screen fabric, a solution of glue, salt, alum, washing soda and distilled water while at substantially a boiling point, second slowly drying the screen treated with the solution of glue, salt, alum, washing soda and distilled water for a period of about twelve hours, and third applying the solution first applied with addition thereto of aluminum-bronze of sufficient amount to produce a plastic mass, and fourth drying the screen thus treated for a period of about twenty-four hours, substantially as described.

In testimony that we claim the above, we have hereunto subscribed our names in the presence of two witnesses.

HENRY CLAY COYLE.
HARRY E. COYLE.

Witnesses:

F. W. BOND,
SYLVIA BORON.