The Wonderful Moving Pictures in Color

By L. A. GRIFFITH (A Member of the Kinemacolor Cast)

"MOVIES" MADE ON A MOUNTAIN TOP.
This scene was shot at the Grand Canyon of Arizona in a play called "The Explorers." This was so as to get natural scenery as a background. Mrs. Griffith, the girl, is in the center of this picture. The natural colors of the mountains show in the film.

KAHRENSAL OF A COMIC INDOOR "SET."
Jack, the young man with uplifted hand, is swearing he will never build another house. Every person shown in the picture is an actor. Only two walls are used in filming an indoor scene. The other two sides are open, but they never show in the finished film.

THREE YOUNG ACTORS.
Children are becoming more and more prominent in moving picture acting. These are dressed, or rather undressed, to represent puppets for a play held near the Grand Canyon.

DAVID MILES,
Head of the production department of one of the foremost motion picture companies in the United States. He is a wonder at getting effects in a picture.

WHAT A PICTURE CAMERA DOES NOT SHOW US.
This scene is about Jack and his house. In the finished picture, the three men show pouring the water to secure a rain effect do not show. They are off stage. Only three characters appear in the completed picture.

"BEGIN THE ACTION—CAMERA!"
As this call all the actors, separate their pans and are not allowed to step out of their character until time is called. This is a dramatization of an adaptation of the introduction to Shakespeare's "Macbeth." and the "burning of the thorn."

IT is the moving picture age and the moving picture itself is progressive and progressing. It might be said that there are three stages of its development:

The first is the reproduction of the plain doll photos. These give us all the action but no color and no sound. The wonderful success of the moving picture without these additional accessories has impressed all who have observed its rapid development and growth, so that scarcely a community, large or small, is without its 5 or 10 cent moving picture show.

The second step, that of producing the moving pictures in the natural colors, has reached the practical stage where it is of commercial value. To Messrs. Urban & Smith, who after twelve years constant study in the realms of physics, perfected the Kinemacolor process, we are indebted for the new era which has dawned for the moving picture industry. The kinemacolor pictures are thus far familiar to the larger part of the American public, mostly through the presentation of the Coronation pictures of King George IV of England and the Durbar festivities in India. In no instance must kinemacolor be confounded with the hand-tinted films or those machine colored by the stencil method. This work we are familiar with through the pictures of the French firms of Pathé, Gaumont and Éclair.

Kinemacolor moving pictures are not colored artificially. Nature does the work and it is in this invention or discovery that gives particular value to the Kinemacolor photos. The process is highly technical and a full description would necessitate a long scientific dissertation. The real secret of the kinemacolor process is in the sensitizing of the film. This necessitated exhaustive experiments covering a period of nearly three years. Finally a product was obtained which in ordinary sunlight is sensitive to color waves from the brightest of violets to the darkest of reds. When the kinemacolor camera is at work, a pair of carefully selected light-diffusers sift the color waves of the scene on to this highly sensitized film and permit them to be recorded separately and in due proportions. After the rest of film bearing these color records has been subjected to the proper developing and drying processes, it is placed in the motion picture projecting machine.

This is fitted with somewhat similar filters, and as the film is run through and thrown on the screen, the color waves are again set in motion. The proportion of colored light then served out to the observers being the same as at the outset, the original scene is reconstructed, as it were, to the eye. We now see an exact reproduction of every color that entered into the landscape, the greens of the trees and grass, nature's flowers in all their lovely colors, the little red cottage by the roadside or the marble palace on the heights and the interior decorations of rooms, even to the soft coloring of a rug.

The third and perhaps greatest of all the coming developments of the moving picture is the reproduction of the sound with the motion. This is still in the experimental stage. The writer had the pleasure of witnessing a private exhibition in Paris. It was a great success and would have been still greater if in addition to the pictures and concurrent sounds, the Kinemacolor process could have been introduced so that we should have had color, sound and motion, apparently an actual reproduction of the living beings who participated in the exhibition. It is said that the greatest difficulty in producing moving pictures with the voices of the participants lies in the fact that the sounds

(Continued on page 676.)
must be reproduced by photographic de-
vice. It sometimes happens that the film
becomes so intriguing that it is never taken
out and replaced. This can be done with
the camera of a camera and then taken
to the laboratory to be developed and
sent home.

The American Boy

The Wonderful Moving Pictures in Color
(Continued from page 97.)

A fine magazine that all boys—by thirty
years old—will value and enjoy. It is the
American Boy, and its editor is Mr. Ira
W. Stillman. It is published by the In-
formation Service Company, New York.

The Wonderful Moving Pictures in Color
must be reproduced by photographic de-
vice. It sometimes happens that the film
be-comes so intriguing that it is never taken
out and replaced. This can be done with
the camera of a camera and then taken
to the laboratory to be developed and
sent home.

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem
(Continued from page 97.)

The American Boy

A Marvelous Synthetico New England Gem