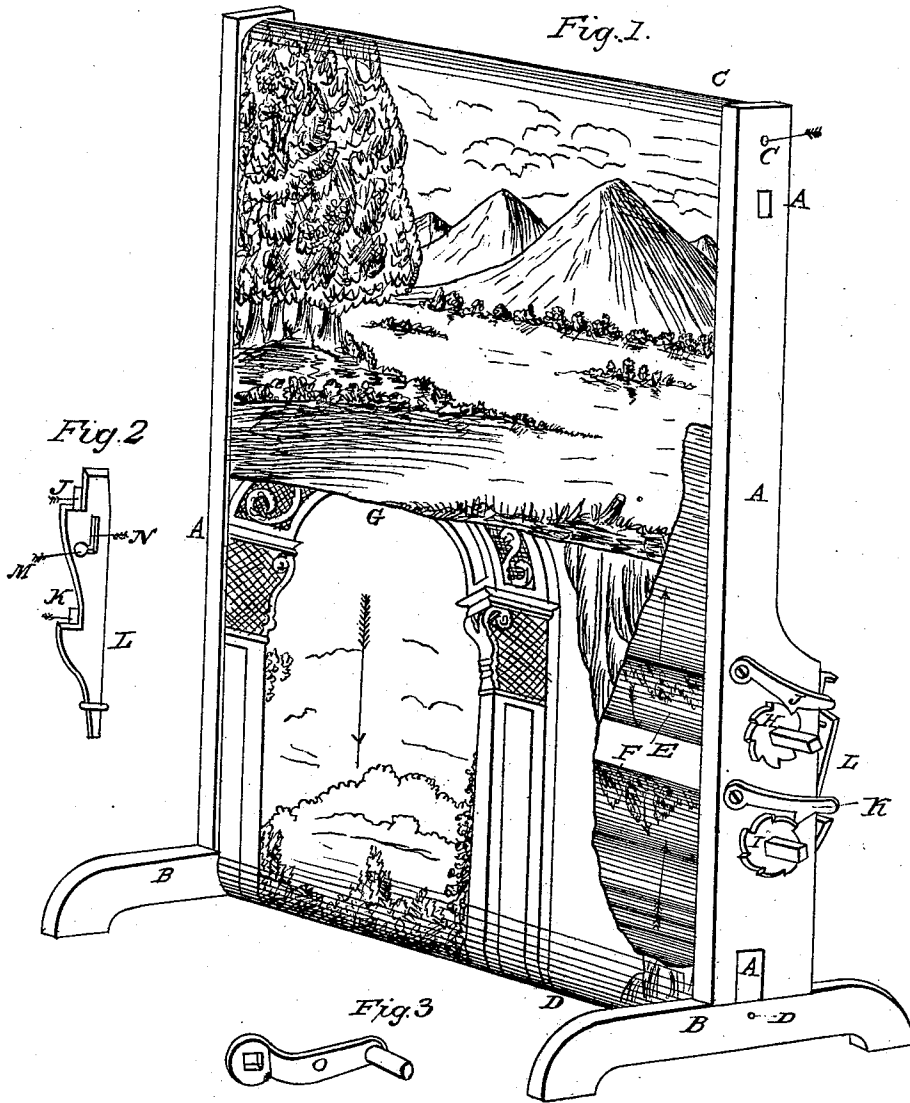


J. A. ANDERSON.  
 Photographic Screen.

No. 100,099.

Patented Feb. 22, 1870.



*Witnesses*  
 Chas. A. Washburn  
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# United States Patent Office.

JONAS A. ANDERSON, OF CHICAGO, ILLINOIS.

Letters Patent No. 100,099, dated February 22, 1870.

## IMPROVEMENT IN PHOTOGRAPHIC SCREENS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JONAS A. ANDERSON, of Chicago, in the county of Cook, and State of Illinois, have invented a new and useful Diorama and Photographic Background Screen; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents my screen with its mechanism in perspective.

Figure 2 is a view of the unlocking device detached.

Figure 3, the crank by which the screen may be moved.

This invention relates more particularly to devices for the convenient use of scenic background screens for photographic portraiture, but it is equally well adapted to plain backgrounds of different shades, and moving backgrounds, to produce a perfect uniformity and smoothness of tint; and

It consists in a suitable frame, bearing a system of rollers upon which a long canvas or screen is wound, and a suitable arrangement of ratchets and pawls by means of which the screen may be moved and retained in any desired position.

That others may understand the above-named invention in its construction and operation, I will particularly describe it.

A A is an upright frame supported upon feet B.

The rollers C D have their bearings at the top and bottom of this frame respectively; and the rollers E F are similarly mounted in said frame, near to each other, but a little further to the rear.

A long strip of suitable canvas or other material, G, is placed over the rollers C D, and its ends secured respectively to the rollers E F. After so securing it, the canvas is drawn tight by winding it upon one of the rollers E F, and the apparatus may then be considered in operative condition, as a variety of devices may be employed either to move it or to retain it in any desired position.

For purposes of convenience, however, I place upon the ends of the journals of the rollers E F, the ratchet-wheels H I, and provide them with pawls J K. The teeth of these ratchet-wheels point in different directions, so that when the screen is drawn tight, the pawls will retain both rollers, and prevent the screen from becoming slack.

When the screen is to be changed, so as to exhibit a different scene, the pawls are both raised by the unlocking device L, and by the application of the crank

O, either one of the winding-rollers E F may be actuated as required.

The unlocking device L is provided with an L-shaped slot, N, through which a guide and stop-pin, M, passes into the frame A. When the said pin is in the horizontal part of said slot, it holds the plate L and pawls up and out of engagement with the ratchets H I.

Upon the face of the canvas G may be painted a variety of background scenes, each occupying the requisite space, like the views of a diorama, and either one of these may be brought into position, as may be required, and without the inconvenience of separate screens for each scene.

Instead of scenic backgrounds, there may be plain grounds of different shades or with a variety of artistic effects of light and shade, as the artist may prefer.

Another mode of employing my invention is for a background in motion during the sitting, by which means a beautifully soft and smooth effect is produced in the picture, with the roughest background brought up close into focus.

The advantages of my invention are:

1. Economy of space; an indefinite number of background views here occupy no more space than has hitherto been occupied by a single screen.
2. Convenience of handling, as the frame A may be mounted upon casters; and
3. The change of scene may be arranged by any person, but little strength and no skill being required.
4. Simplicity of construction and non-liability to derangement.

The rollers E F may be placed at the top and bottom of the frame A, if desired, and the rollers C D may then be dispensed with, and this arrangement may sometimes be preferable, though for small photographic background scenes, I think the arrangement shown to be most convenient.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The frame A, provided with the rollers E F to bear the canvas G, and a locking device to hold said rollers and canvas at any desired point, for the purpose specified.

2. The rollers C D E F, with the ratchets H I and pawls J K and the unlocking device L, all constructed and arranged substantially as set forth.

Witnesses: JONAS A. ANDERSON.

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