

S. D. Goodale.

Stereoscope.

N^o 48,807.

Patented Jul. 18, 1865.

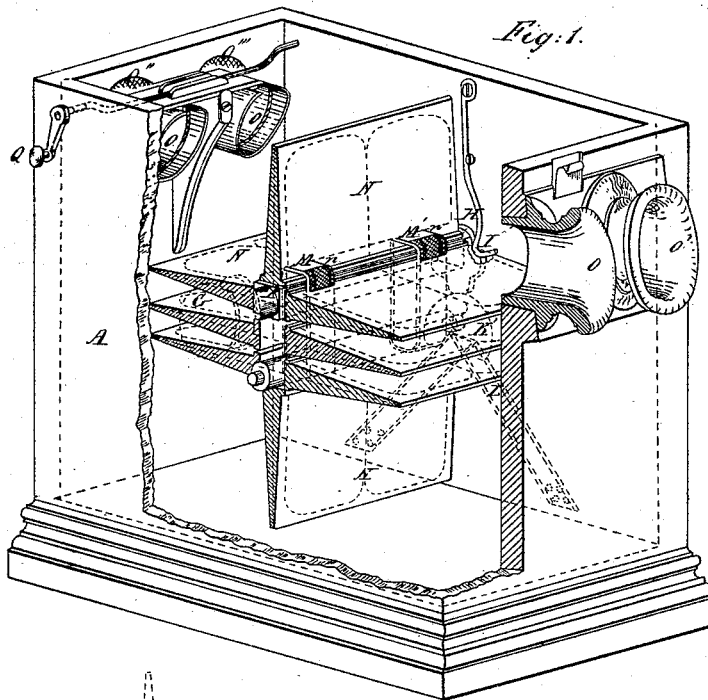


Fig. 6.

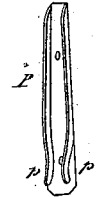


Fig. 5.

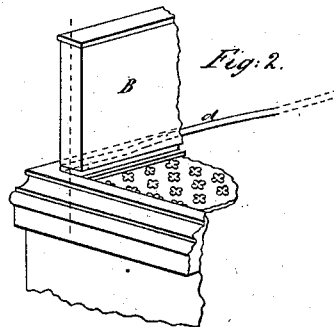
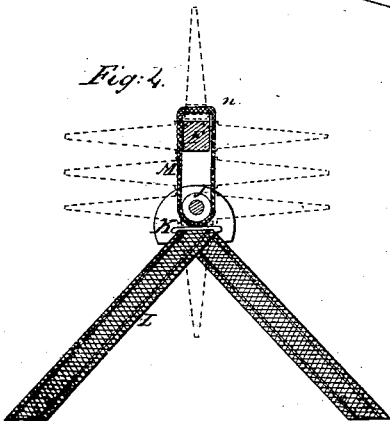
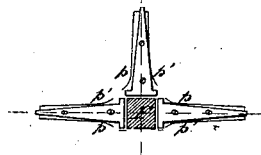
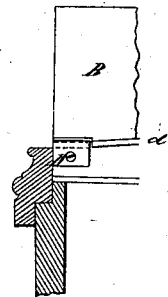


Fig. 3.



Witnesses.
James H. Layman
J. P. Magee

Inventor.
S. D. Goodale
By Knight Bros
Attys

UNITED STATES PATENT OFFICE.

SAML. D. GOODALE, OF CINCINNATI, OHIO.

IMPROVEMENT IN STEREOSCOPES.

Specification forming part of Letters Patent No. 48,807, dated July 18, 1865.

To all whom it may concern:

Be it known that I, SAML. D. GOODALE, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Stereoscopes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification.

My invention relates to the class of stereoscopes in which the pictures are brought successively within the range of vision by the rotation of endless carrier.

Figure 1 is a perspective view of a stereoscope which embodies my improvements, portions of the top and one side being broken away in order to expose the interior mechanism. Fig. 2 represents a portion of the case and one reflector. Fig. 3 is a transverse section through a portion of the case. Fig. 4 represents the scene-carrier detached. Fig. 5 is a transverse section of the upper portion thereof without the band. Fig. 6 represents a scene-holder detached.

The inclosing-case A has its upper and lower margins rabbeted to receive the covers or reflectors (of which one, B, is shown) and the bottom C, the latter being readily removable by the withdrawal of wood-screws. Each cover or reflector B is secured to the case by a hinge, D, whose pintle *d* is sprung or bent out of a straight line, so as to cause it to bind in its bearings, and to thereby hold the reflector at any angle to which it may be opened.

E represents the customary ground-glass pane, the said pane simply resting in the upper rabbet, and being easily lifted out to afford access to the scene-holders and to admit a flood of light on a dark day.

My scene-carrier is constructed as follows:

F is a square shaft, journaled horizontally near the middle of the case, on the outside of which it is provided with handles G (see dotted lines) for its convenient rotation.

H is a yielding catch, which enters an indentation I in the shaft F for every quarter-turn thereof, so as to stop the same at the precise position required for the proper presentation of the scene.

J is a shaft, which may be cylindrical or otherwise, and which is journaled in eyes K K', which eyes are connected to the lower part of the case by means of elastic straps L L'.

M M' are elastic bands, which are passed around the lower shaft, J, and through aper-

tures *n* near to and parallel with the thick edges of a series of peculiarly formed and arranged wedge-like blades, N, whose thick edges rest in succession upon the (for the time being) upper side of the square shaft F. The wedge form of the blades causes the scenes to come into view at a more convenient angle for inspection than is the case with those having customary vertical presentation, and enable the use of eye-tubes O O' O'' O'''', which incline slightly downward toward the scenes, which enables the use of a lower and more compact case, is more easy to the beholder, and is accompanied by a stronger illumination of the face of the scene.

The elastic straps L L' and the elastic bands M M' cause all parts of the scene-carrier to rotate together, and at the same time admit of the ready detachment or inspection of any part.

Each of the two vertical edges of each blade has a double scene-holder, P, composed of a single piece of sheet metal cut and bent into the form shown at Fig. 6, *p p'* being yielding jaws, which permit the ready insertion or removal of any scene, while yet exerting pressure sufficient to prevent any accidental displacement thereof.

Each blade N, with its pair of double holders P, is adapted to hold two distinct cards or scenes, each of which is presented with slanting aspect, above described.

Each eye-tube may contain a tubular lens-holder, O, capable of being adjusted to suit the vision by means of a crank, Q.

I claim herein as new and of my invention—

1. A continuous scene-carrier having the series of two-faced wedge-formed holders N strung upon elastic ribbons M M', substantially as set forth.

2. A continuous scene-carrier having the series of two-faced wedge-formed blades N, when combined with the pair of depressed lens-holders or eye-tubes O O', substantially as set forth.

3. The scene-holder N P, formed and operating as described.

4. The combination of the bent elastic pintle *d* with the reflector B, as and for the purposes set forth.

In testimony of which invention I hereunto set my hand.

SAMUEL D. GOODALE.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.