

W. H. LEWIS.  
STEREOSCOPE.

No. 170,749.

Patented Dec. 7, 1875.

Fig. 2.

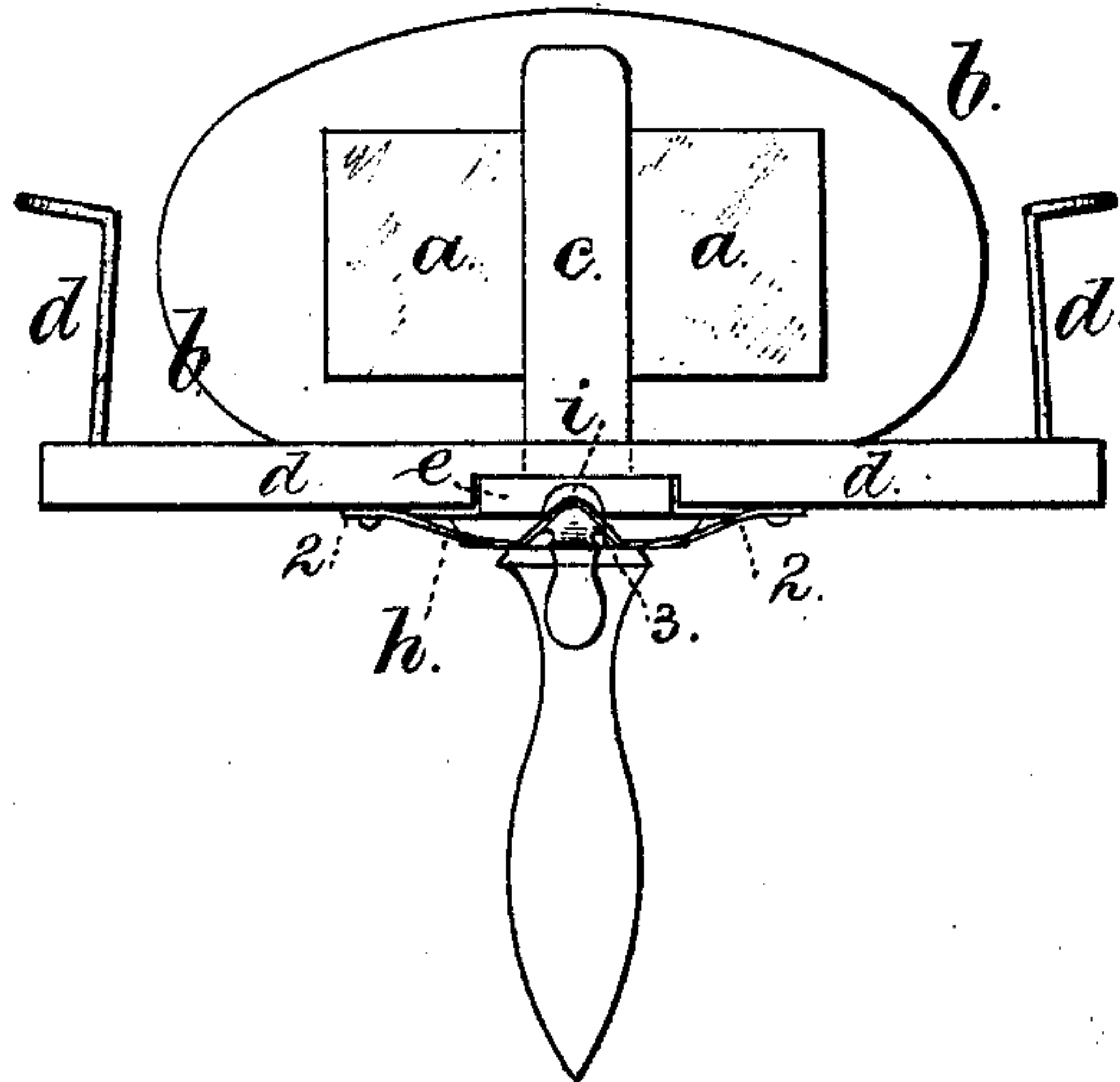
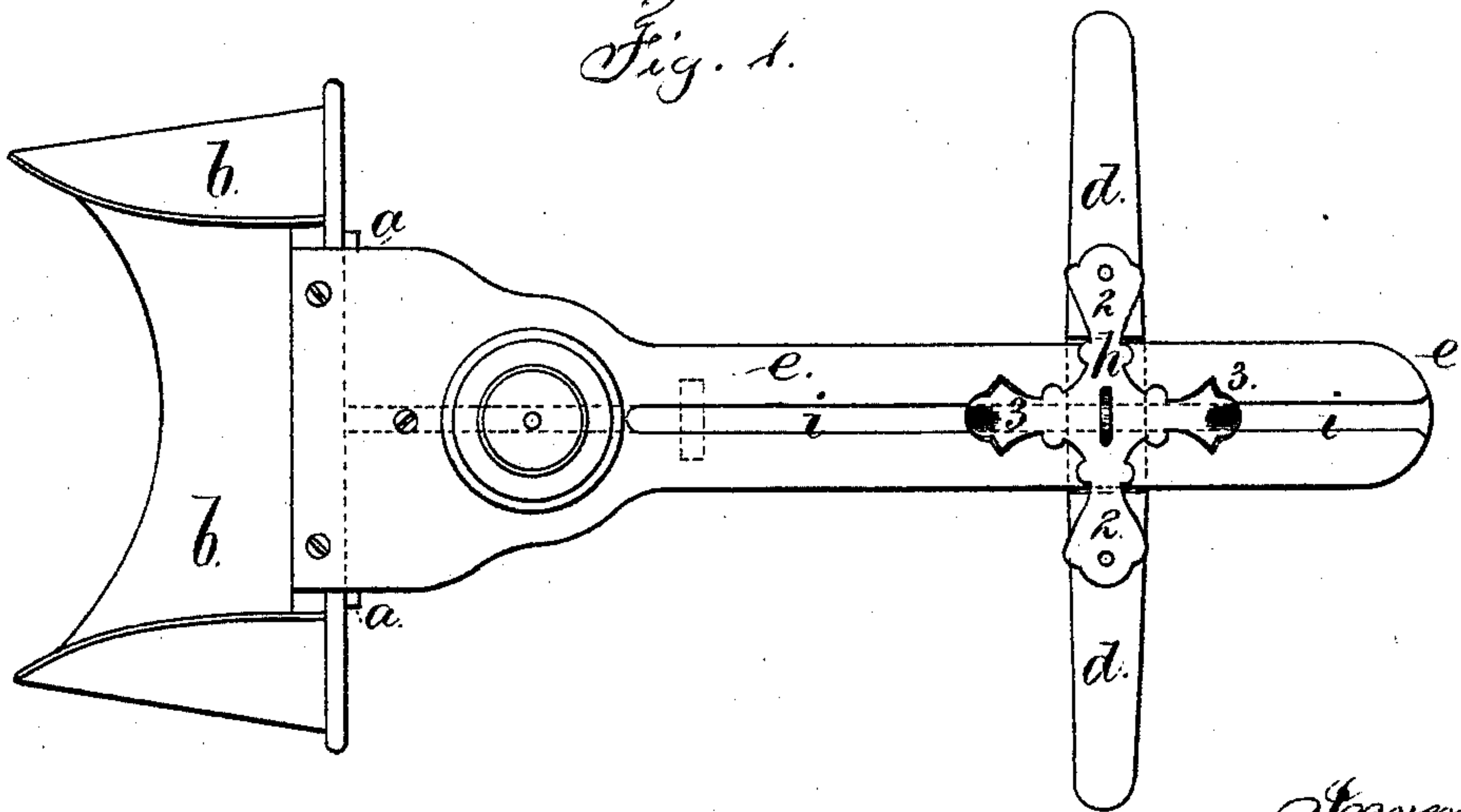


Fig. 1.



Witnesses,

Chas. Schmidt  
Geo. V. Penckney

Inventor

William H. Lewis  
per Lemuel M. Serrell atty.

# UNITED STATES PATENT OFFICE.

WILLIAM H. LEWIS, OF NEW YORK, N. Y., ASSIGNOR TO E. AND H. T. ANTHONY & CO., OF SAME PLACE.

## IMPROVEMENT IN STEREOSCOPES.

Specification forming part of Letters Patent No. **170,749**, dated December 7, 1875; application filed October 20, 1874.

*To all whom it may concern:*

Be it known that I, WILLIAM H. LEWIS, of the city and State of New York, have invented an Improvement in Stereoscopes, of which the following is a specification:

Stereoscopes have been made with a picture-holder sliding longitudinally of the bar forming the base of the stereoscope, and said holder has been provided with a metal spring below the base, that has furnished the means for retaining the picture-holding slide at any position to which it may be moved, the friction of such spring accomplishing this object, but the holder is liable to assume a diagonal position to the bar or base.

My present invention is for the purpose of guiding the picture-holder, so that it will move freely, and always be held at right angles to the bar.

I make use of a groove or rib at the under side of the bar, and the metal spring is made with four arms, two of which are connected with the picture-holder, and the other two run at their ends in or upon the rib or groove at the under side of the bar. Thereby the sliding picture-holder is kept in position, but is free to be moved in bringing the picture to focus.

In the drawing, Figure 1 is an inverted plan, and Fig. 2 is a view endwise, of the bar.

The stereoscope-instrument is of the ordinary character, so far as the glasses *a*, hood *b*, division *c*, and picture-holder *d*; and the bar

or base *e* is of usual construction, except that a groove, *i*, is made longitudinally thereof in the said bar, or a rib placed thereon, and the spring *h* is made of four metal arms, 2 2 and 3 3, the former being united to the picture-holder, and the latter having rounded projections running in the groove *i*, or bent up to grasp the rib, so that the picture-holder is held firmly by the spring at the bearing-points that produce the friction.

Springs have been employed in many ways for producing a yielding frictional resistance, and springs have been placed within grooves.

In my improved stereoscope the ends of the spring become guides for the picture-holder in addition to furnishing the frictional resistance, in consequence of such spring ends resting in a groove or upon a rib, and sliding as the holder is moved.

I claim as my invention—

The guide and frictional detainer for the picture-slide of a stereoscope-instrument composed of the spring *h*, that is attached to said slide, and bears at its ends in a groove, or upon a rib at the under side of the bar *e*, to form a guide, as set forth.

Signed by me this 16th day of October, 1874.

W. H. LEWIS.

Witnesses:

GEO. T. PINCKNEY,  
CHAS. H. SMITH.