

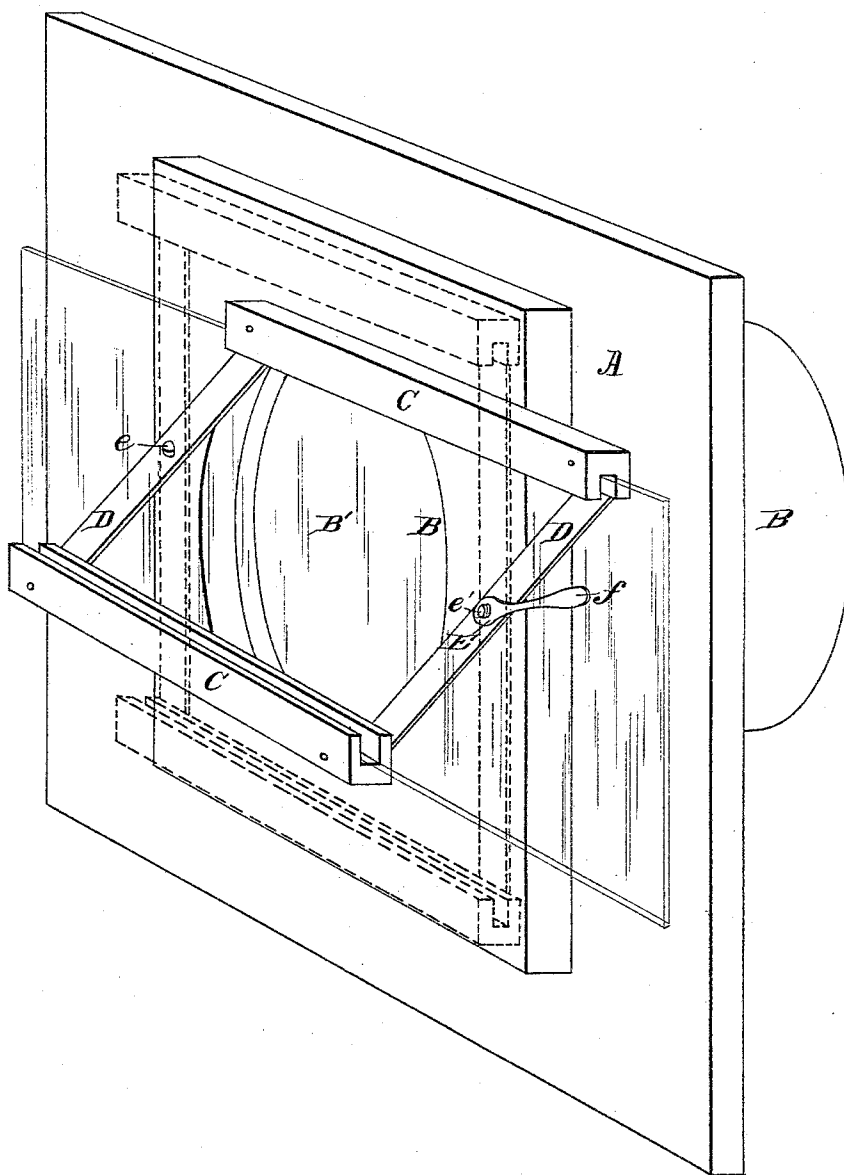
(No Model.)

W. S. BARSTOW.

SLIDE HOLDER FOR MAGIC LANTERNS.

No. 300,558.

Patented June 17, 1884.



Witnesses.

Alf Steig.

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UNITED STATES PATENT OFFICE.

WILLIAM S. BARSTOW, OF BROOKLYN, NEW YORK.

SLIDE-HOLDER FOR MAGIC-LANTERNS.

SPECIFICATION forming part of Letters Patent No. 300,558, dated June 17, 1884.

Application filed January 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. BARSTOW, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Slide-Holders for Magic-Lanterns, Heliostats, &c.; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to the slide-holder for a magic-lantern, stereopticon, or similar optical instrument.

It consists in uniting the parallel grooved bars designed to receive and engage the edges of the slides by means of transverse strips—one at either end—pivoted to the grooved bars, and which are likewise pivoted centrally to the frame or plate in which the lens or lens-tube of the apparatus is fitted in a line drawn diametrically across the opening for the lens or tube, the object of my invention being to provide a slide-holder which is readily adjusted to receive and support slides of different widths, and which will properly center the same, irrespective of their width, over the center of the lens or lens-tube.

In the accompanying drawing, which is a view in perspective of my improved adjustable slide-holder fitted to the lens-plate of a magic-lantern, A represents the plate or board, to which the lens-tube B of the instrument is fitted in the customary manner. B is the opening in the lens-tube over which the transparent picture-slide is to be carried. C C are the longitudinally-grooved parallel bars of the slide-holder. These grooved bars are united by thin transverse plates or strips D D, of equal length, pivoted thereto at each end thereof, so as to allow them to approach and recede from each other, and yet maintain constantly their perfect parallelism. These connecting-strips D D are pivoted centrally at *e e'* to the face of the board or frame A on each side of the

opening B of the lens-tube, and both in a straight line drawn through the center of said tube, so that whatever may be the interval between the grooved bars C C the center of said interval, or of the plate or slide inserted between the bars, shall coincide with the center of the lens. The bars C C are approximated, (see positive lines in the drawing,) or are spread apart, (see dotted lines in the drawing,) as required, to receive and secure between them slides or plates S, of any width, by simply swinging the bars upon the pivoted strips, which are readily turned upon their central pivots for the purpose. When the distance between the grooved bars C C of the slide-holder is adjusted to suit the size of the plate at hand, the holder may be fixed by means of a nut, E, led upon a thread cut upon one of the pivot-pins *e*, said nut being fitted with a handle, *f*, to allow of its being readily lengthened upon the pivot-screw to bind and clamp the pivoted strip and prevent its movement.

I contemplate the substitution of any of the well-known mechanical devices for clamping and locking the slide-bars instead of the nut E.

I claim as my invention—

The combination, with the lens tube or opening in a magic-lantern, heliostat, or similar instrument, of an adjustable slide-holder consisting of two movable bars adapted to engage the edges of the slide, the opposite edges of which are kept always parallel by means of two parallel transverse strips, each pivoted at its ends to said bars, and in the middle to the plate or frame of the instrument on each side of said opening, substantially in the manner and for the purpose herein set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. S. BARSTOW.

Witnesses:

P. ELBERT NOSTRAND,
A. W. STEIGER.