

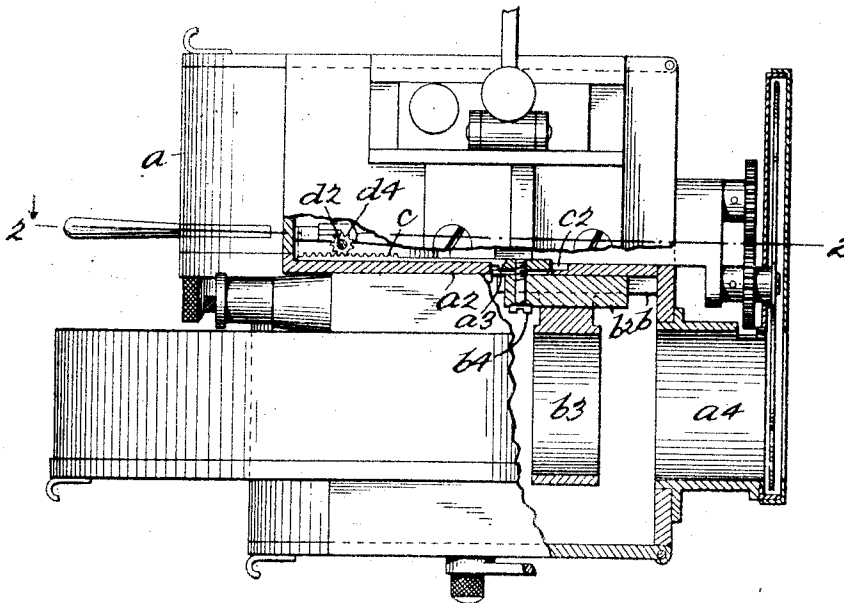
E. S. PORTER.
LENS ADJUSTER.
APPLICATION FILED AUG. 11, 1911.

1,041,346.

Patented Oct. 15, 1912.

2 SHEETS-SHEET 1.

Fig. 1



Attest:
W. M. Finn
S. T. and Core

by

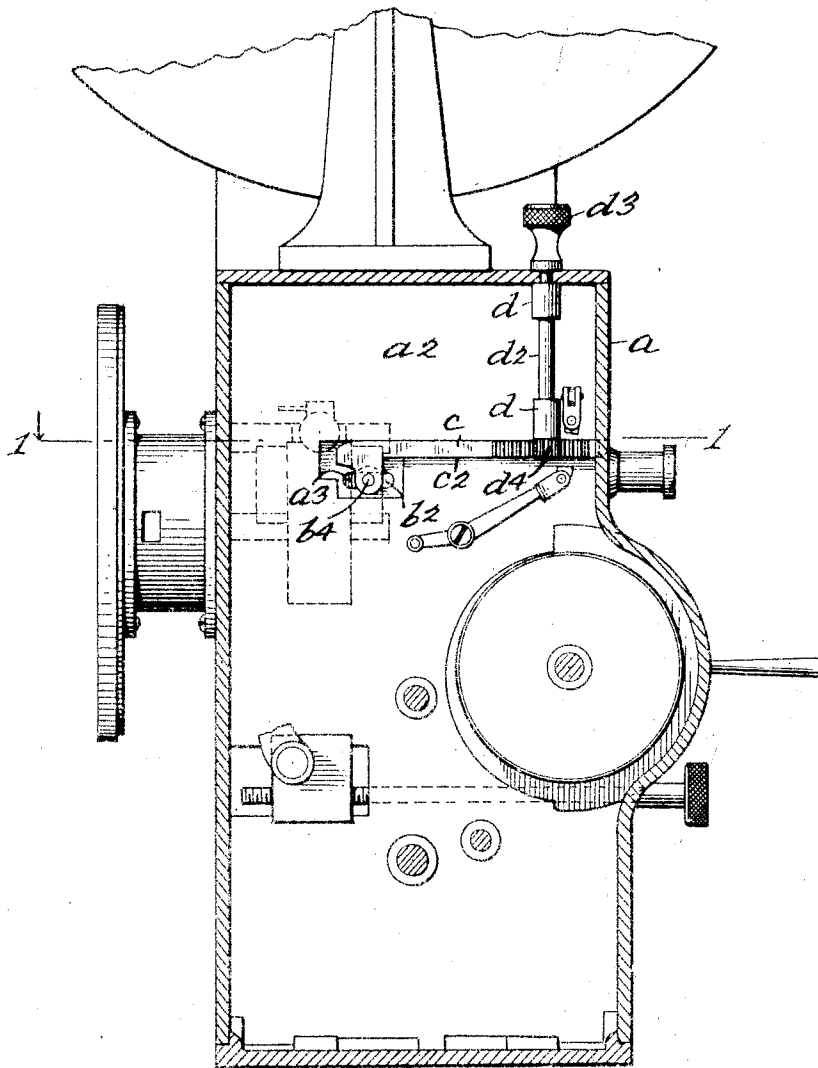
Inventor:
Edwin S. Porter
Chris Larsen Att'y.

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2 SHEETS-SHEET 2.

Fig. 2



Attest:
H. M. Ginn
S. Van Horn

Inventor:
Edwin S. Porter
by *J. Chris Larsen* Atty

UNITED STATES PATENT OFFICE.

EDWIN S. PORTER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO FRANCIS B. CANNOCK, OF NEW YORK, N. Y.

LENS-ADJUSTER.

1,041,346.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Original application filed March 4, 1911, Serial No. 612,417. Divided and this application filed August 17, 1911, Serial No. 645,473.

To all whom it may concern:

Be it known that I, EDWIN S. PORTER, a citizen of the United States of America, and residing at New York, in the county of New York and State of New York, have invented certain new and useful improvements in Lens-Adjusters, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to kinetoscopes, being to matter divided out of my application for Letters Patent of the United States filed Mar. 4, 1911, Ser. No. 612,417, and the object thereof is to provide means, exterior of a kinetoscope, for adjusting the lens thereof to attain a proper focus.

A further object is to so locate the exterior operating means as to be convenient to the operator during the operation.

A further object is to accomplish this adjustment through the medium of a rack and pinion movement.

A further object is to so arrange the operative parts of my invention as to be clear of the kinetoscope mechanism and, with these and other objects in mind, my invention consists in the construction and arrangements of parts as hereinafter fully pointed out and claimed.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which the separate parts are designated by the same reference characters in each of the views, and in which:—

Figure 1 is a plan view of a kinetoscope provided with my invention, partly broken away, and partly in section on the line 1—1 of Fig. 2; and Fig. 2 is a section taken approximately on the line 2—2 of Fig. 1.

In the drawings forming a part of this application I have shown the casing *a* of a kinetoscope provided with my present preferred form of my invention, said casing having a partition *a*¹ vertically arranged and approximately centrally of said casing, and said partition is provided with an opening *a*² therethrough.

Slidably mounted in suitable guides *b* on one side of the partition *a*¹ is a block *b*¹ to which is secured, detachably, adjustably, or otherwise, a lens cell *b*² and which is ar-

ranged in line with the shutter opening *a*⁴ of the kinetoscope, the lens not being shown as it may be of any of the well known types, and said block *b*¹ has a screw or bolt *b*³ held therein which passes through the opening *a*³ of the partition *a*¹ and into one end of a rack *c* slidably horizontally in a suitable guiding recess *c*² in the opposite side of the partition, and it will be seen that movement of the rack also moves the block *b*¹ and the lens cell *b*².

Arranged in suitable guides *d* on the partition *a*¹ on the same side as and above the rack *c* is a vertically arranged rod *d*² which carries a handle, thumb-nut, button, or the like, *d*³ on its upper end, exterior of the casing *a* and in such position as to be readily manipulated by the free hand of the operator, and secured to the lower end of the said rod *d*² is a pinion *d*⁴ enmeshed with the rack *c*, and it will be seen that when the button *d*³ is turned in either direction, the rack *c* is correspondingly moved, as is also the lens as hereinbefore described, and this adjustment of the lens is possible at any time, with the kinetoscope in operation or not.

My intent, as described in the application above referred to, is to so arrange all the adjusting devices of a kinetoscope as to be readily manipulated by the free hand of an operator, as is plainly possible with my present invention, and it will be readily seen that I accomplish the desired result of lens adjustment through the medium of a readily accessible operating device, and in a very simple manner which is not liable to get out of order, which does not interfere in any way with the kinetoscope mechanism, and which is positively "fool-proof," against any derangement by careless or unskilled persons.

While I have shown, and described, a preferred method of accomplishing the desired result in a kinetoscope of a certain form, it will be obvious that I may also adapt the same to kinetoscopes of various forms, the essential features being the movable lens-cell and the convenient, exterior, manipulating means, as the details of the connecting and operating elements may be modified or changed to meet different conditions and, reserving the right to myself

of all such changes in and modifications of the details shown and described as come within the scope of the following claims.

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

1. In a kinetoscope, provided with the usual lens and cell therefor; a partition provided with an opening, a lens-cell carrier slidable in guides on one side of said partition, a rack slidable in suitable guides on the other side of said partition, means for connecting said carrier and rack, and means, exterior of said kinetoscope, for moving said rack and carrier to adjust said lens.

2. In a kinetoscope, provided with the usual lens and cell therefor; a partition provided with an opening, a lens-cell carrier

slidable in guides on one side of said partition, a rack slidable in guides on the other side of said partition, means passing through said opening for connecting said carrier and rack, a pinion enmeshed with said rack, and means, external of said kinetoscope, for rotating said pinion to move said rack and thereby adjust said lens.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 25th day of July, 1911.

EDWIN S. PORTER.

Witnesses:

S. VAN HORN,
J. C. LARSEN.