

A. S. WARREN.
 DEVICE FOR EXHIBITING PICTURES.
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1,048,379.

Patented Dec. 24, 1912.

Fig. 1-- Fig. 3

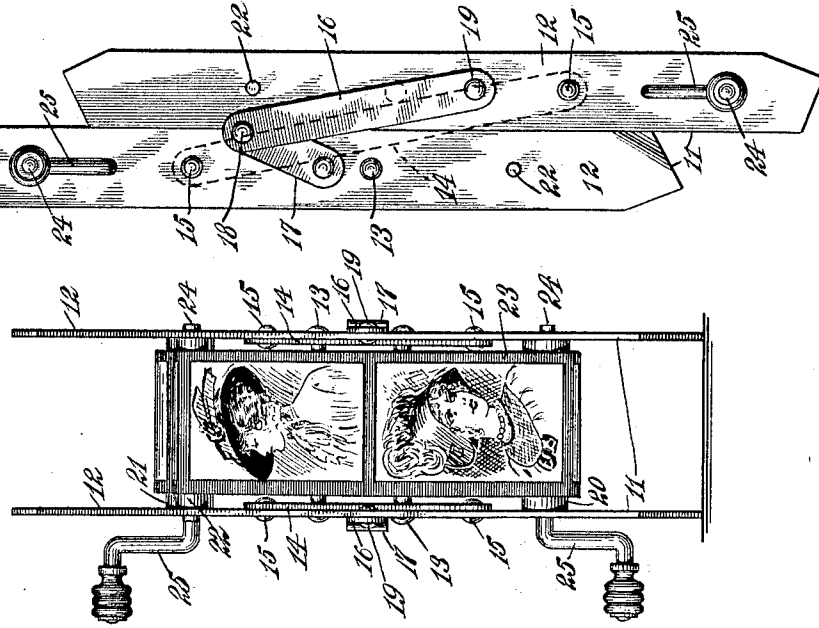
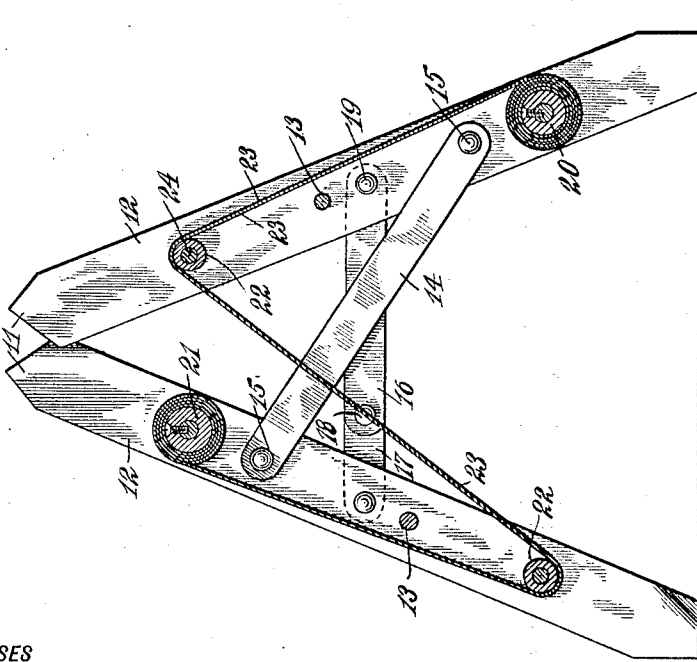


Fig. 1--



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DEVICE FOR EXHIBITING PICTURES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALVA S. WARREN, a citizen of the United States, and a resident of Batavia, in the county of Genesee and State of New York, have invented a new and Improved Device for Exhibiting Pictures, of which the following is a full, clear, and exact description.

My invention relates to devices involving reels or spools for receiving a strip bearing pictures that may be brought into view successively, and it is a design of my invention to provide an improved and novel device of the indicated character wherein a plurality of supporting and guiding devices are so arranged that a strip bearing pictures on opposite faces thereof may be so moved as to exhibit the pictures on either side of the strip or film. In carrying out the invention, the supporting structure is adapted to be reversed by bodily inverting the same, according to whether the pictures on one side or the other of the film are to be viewed.

The distinguishing features of my invention, and the important structural elements characterizing the preferred embodiment which is illustrated as an example, will be more particularly explained in the specific description hereinafter to be given.

Reference is to be had to the accompanying drawings forming a part of this specification, in which like characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a vertical section showing the parts of the device adjusted in position for use; Fig. 2 is a front view; and Fig. 3 is a side view with the device folded.

In constructing the illustrated embodiment of my invention two similar frames 11 are provided, each consisting of a pair of side bars 12 which may be united by bracing rungs 13. Each side bar of one frame is connected with a corresponding side bar of the companion frame by a link 14 which is unjointed and essentially rigid, the ends of the links being pivoted to the respective frames with pivots 15 at points on opposite sides of the horizontal center of the frame so that when the device is in erect position for use, as in Fig. 1, the links 14 will range diagonally. In addition to the links 14 an additional pair of links unite the two frames 11, the additional links being articulated and consisting of a longer member 16 and a shorter member 17, said members being

united to each other by pivots 18, and the ends of the respective members being connected with the side bars 12 by pivots 19. Spools 20 and 21 are mounted in the frames at opposite ends, so that when the device is in erect position one spool will be adjacent to the bottom of one frame and the other spool adjacent to the top of the opposite frame. In each frame, near the end opposite to the spool, a guide roller, or idler roller, 22 is provided, and a strip 23 of suitable flexible material has its ends secured to the respective spools 20 and 21 and passes from a spool around that guide roller which is on the same frame with the spool, thence to the guide roller 22 of the companion frame, and thence to the other spool. Thus, there is a stretch of the strip running along the face of each frame from one spool downward to a guide roller 22, and from the spool in the opposite frame upward to the guide roller 22 of the latter frame. Each spool 20—21 has a shaft 24, or its equivalent, on which is a crank handle 25 for turning of the spool.

The frames 11 are adapted to rock on the pivots 19 of the articulated links, said pivots being at the approximate center of the frames, and when, with the parts arranged as in Fig. 1, the strip has been wound completely on to one spool, say the spool 20, the frames may be rocked on the pivots 19 to bring the lower ends together and separate the upper ends, in which condition the device is reversed and the spread ends placed on the table or other support, whereupon the spools may be turned to cause the strip to pay out from the roller 21 on which it was previously wound and wind on to the roller 20 of the other frame. It will thus be seen that a different side of the strip is exhibited between a spool and the guide roller of the frame with the spool.

The construction and arrangement of the link connections permits of the two frames 11 being folded into close relation and into compact form, as illustrated in Fig. 3.

It will be obvious that the strip or film 23 may bear pictures, reading matter, or any other subject matter to be exhibited.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A portable picture exhibiting device adapted to stand on either end, comprising two frames, means pivotally uniting the frames at about their center to permit the

frames to rock to move either end of a frame toward or from the corresponding end of the companion frame, a spool mounted on each frame, the spool at the end of one frame
5 being at the end opposite the spool on the other frame, guides on the frames, and a strip winding on said spool and passing over the mentioned guides, the strip presenting opposite surfaces at the front of each frame
10 between the spool and the guide thereof.

2. A portable exhibiting device adapted to stand on either end, comprising two frames, link connections between the frames permitting either end of a frame to be
15 moved toward or from the adjacent end of the other frame, spools on the frames, an exhibiting strip, and guides mounted in the frames over which the strip has guided movement from either spool to the other.

20 3. An exhibiting device comprising frames pivotally united at points between their ends, a spool near one end of one of the frames, a second spool near the opposite end of the other frame, the said connected
25 frames being bodily invertible to rest on either end and having pivotal movement to move either end of one frame toward or from the adjacent end of the other frame, and a display strip having its ends on the
30 respective spools and adapted to wind alternately onto the spools and unwind there-

from, the said strip presenting opposite surfaces outermost on the respective spools.

4. A picture exhibiting device adapted to stand with either end uppermost, comprising two frames, unjointed links uniting the frames at each side and pivotally connected therewith, the said links ranging diagonally to the horizontal, center of the frames, articulated links comprising shorter and
40 longer members pivotally united with each other and pivotally united with the frames at approximately the horizontal center of the latter, a spool near one end of one frame, a spool near the opposite end of the other
45 frame, a guide roller on each frame at opposite ends, and a flexible exhibiting strip, the ends of which are secured to the spools, said strip passing from the spool of one frame over the guide on said frame diagonally to
50 the guide on the opposite frame, and thence to the spool of said opposite frame, the said spools being mounted to turn in the frame and provided with means to turn said spools.

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

ALVA S. WARREN.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."