

Feb. 16, 1926.

L. G. JORDAN

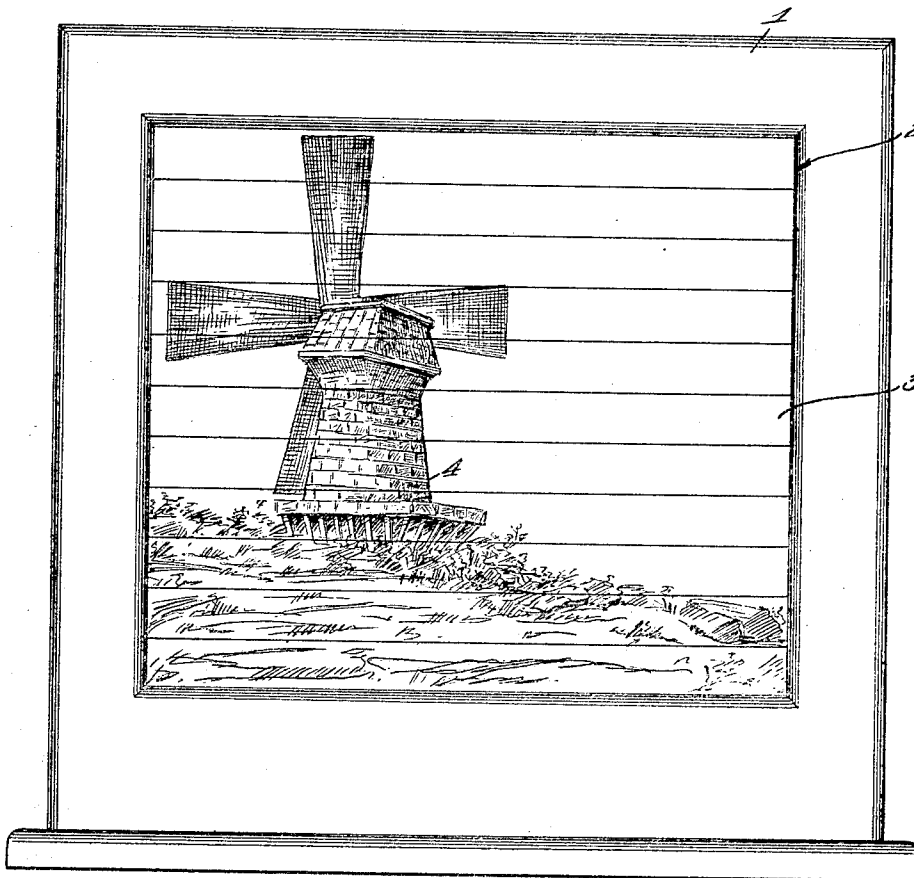
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PICTURE DEVICE

Filed March 30, 1923

4 Sheets-Sheet 1

Fig. 1.



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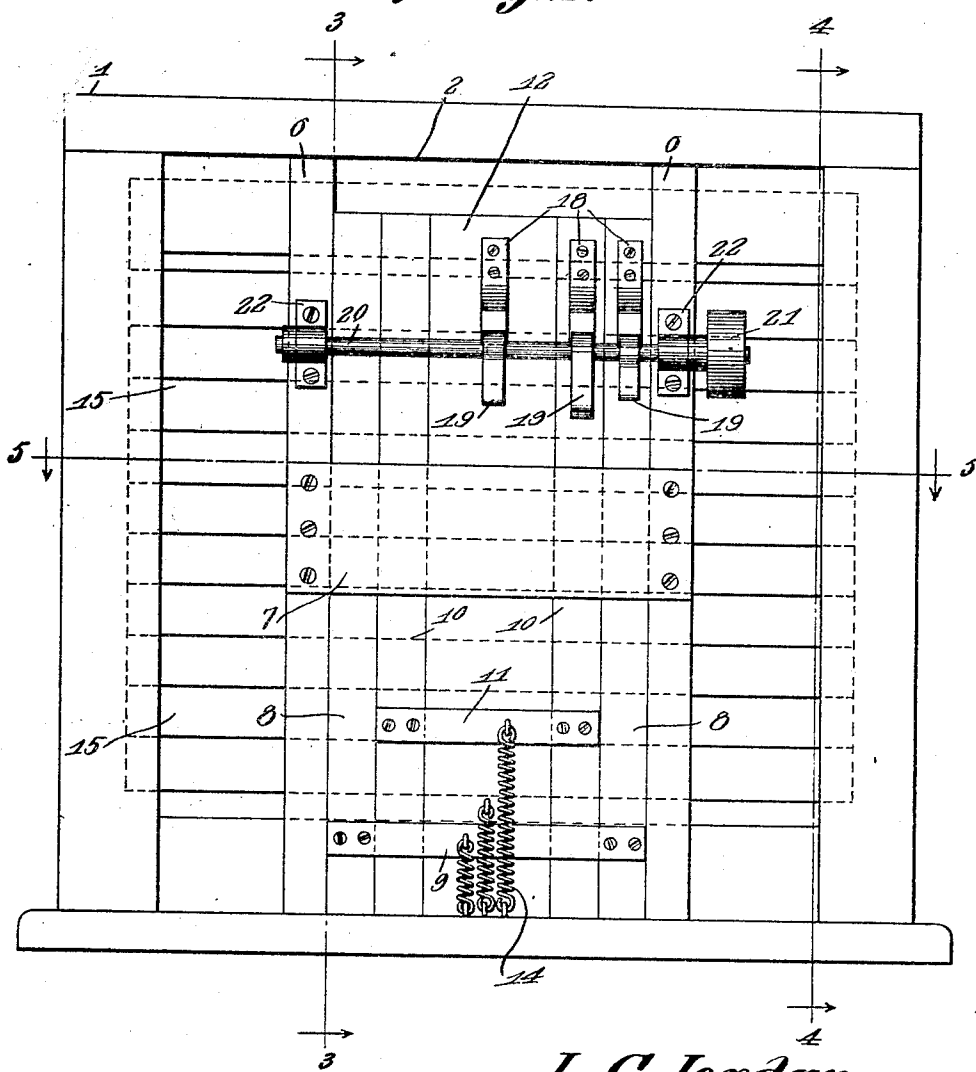
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Fig. 2.



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Fig. 3.

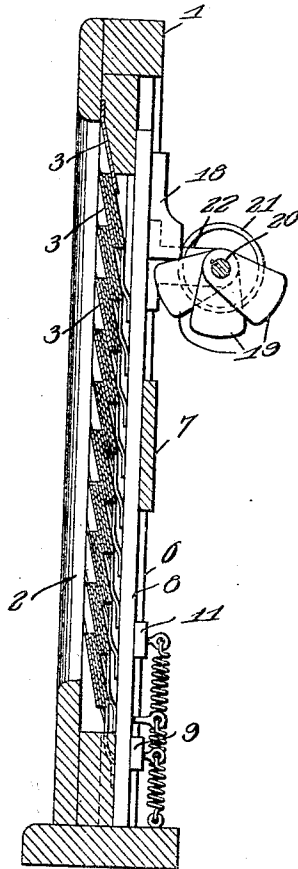


Fig. 4.

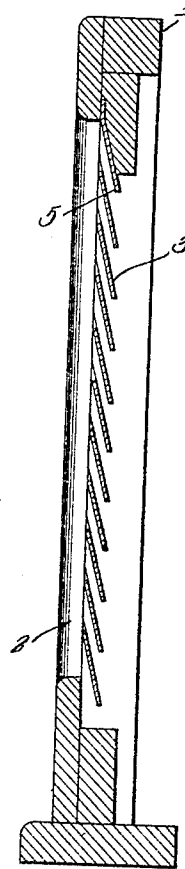
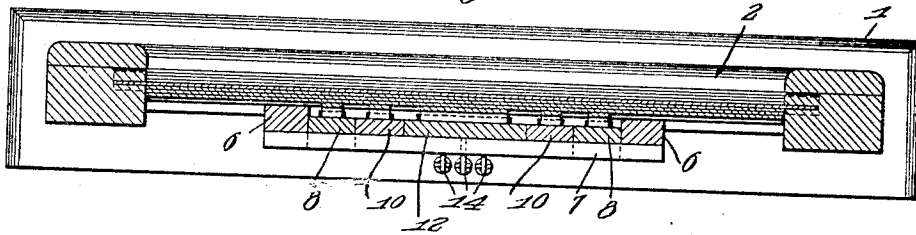


Fig. 5.



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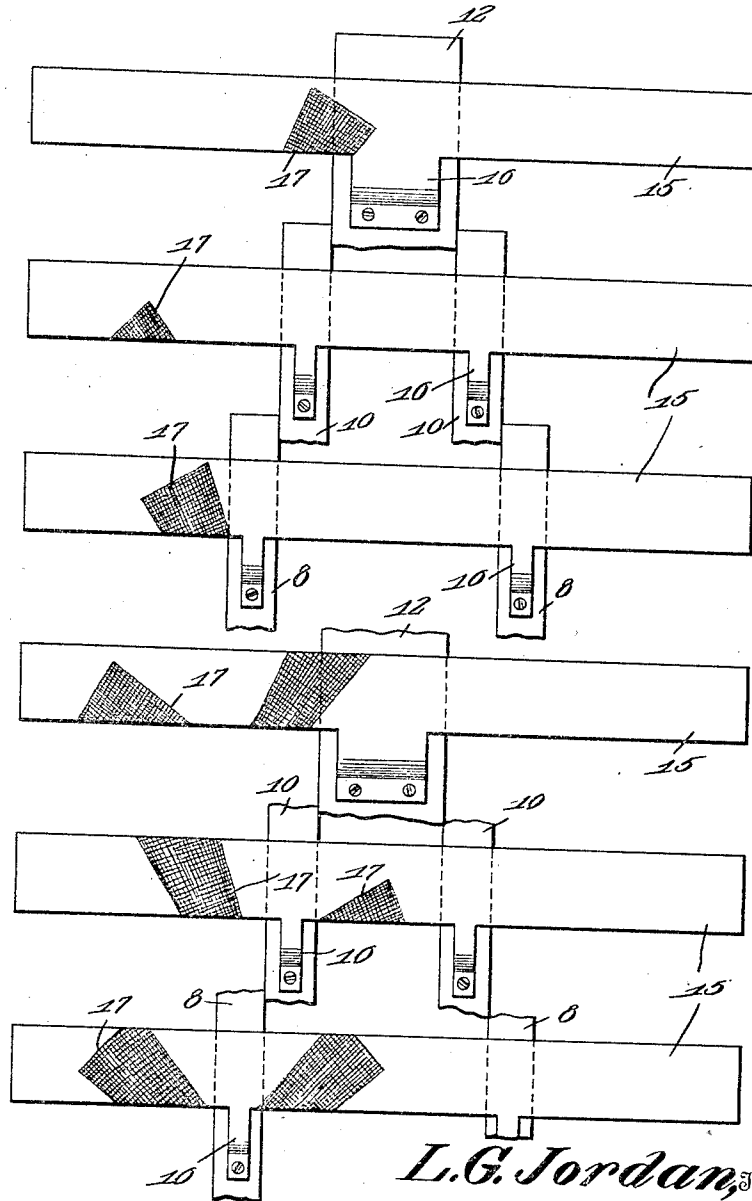
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PICTURE DEVICE

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4 Sheets-Sheet 4

Fig. 6.



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UNITED STATES PATENT OFFICE.

LOUIS G. JORDAN, OF ABERDEEN, WASHINGTON.

PICTURE DEVICE.

Application filed March 30, 1923. Serial No. 628,893.

To all whom it may concern:

Be it known that I, LOUIS G. JORDAN, a citizen of the United States, residing at Aberdeen, in the county of Grays Harbor and State of Washington, have invented a new and useful Picture Device, of which the following is a specification.

This invention aims to provide novel means whereby a motion picture effect may be obtained through the instrumentality of a simple mechanism, comprising, preferably, a plurality of slides interengaged and held in a novel way for reciprocation, novel means being provided for reciprocating the slides in properly timed relation to each other.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention depicted and described, may be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in front elevation, a device constructed in accordance with the invention; Figure 2 is a rear elevation; Figures 3, 4 and 5 are sections taken, respectively, on the lines 3—3, 4—4 and 5—5 of Figure 2; Figure 6 is a diagrammatic plan showing the slides and the display tongues carried thereby, parts being broken away.

The numeral 1 marks a frame of any desired construction, having an opening 2. Horizontally spaced downwardly and rearwardly inclined panels 3 extend across the opening 2 and are carried by the frame 1. A picture 4 appears on the panels 3. The lower edge of each panel 3 extends downwardly behind the upper edge of the panel next therebeneath, as shown most clearly at 5 in Figure 4.

Vertical bars 6 are connected at their upper and lower ends to the upper and lower portions of the frame 1 and extend across the opening 2, behind the panels 3. Intermediate their ends, the bars 6 are connected by a transverse retainer 7. Strips 8 slide in contact with the inner edges of the bars 6,

beneath the retainer 7, and are united by a transverse connection 9. The parts 9 and 8 may be denominated a first slide. Strips 10 reciprocate in contact with the inner edges of the strips 8 and beneath the connection 9 and the retainer 7. The strips 10 are united by a transverse connection 11. The parts 10 and 11 may be called a second slide. A third slide 12 is provided, the same being in the form of a plate mounted to reciprocate between the parts 10 of the second slide, and beneath the retainer 7, the connection 11 of the second slide and the connection 9 of the first slide. The lower ends of retractile springs 14 are connected to the lower portion of the frame 1, one spring being connected at its upper end to the member 11 of the second slide, another spring being connected at its upper end to the member 9 of the first slide, and the third spring being connected at its upper end to the third slide 12. The springs tend to draw the slides downwardly until their lower ends abut against the lower portion of the frame 1. Display tongues 15, preferably in the form of plates are provided, the tongues having one or more reduced depending portions or extensions 16 which are flexible and connected to the third slide 12, to the parts 10 of the second slide, and to the parts 8 of the first slide, all as shown in Figure 6. Each slide has a tongue 16 which operates between two adjacent panels 3 of the frame 1, as indicated in Figure 3. The display tongues 15 carry pictorial elements 17 duplicating those portions of the picture 4 which are supposed to have movement, and the relation between the pictorial elements 17 of the tongues on the slides, and the corresponding parts in the picture 4, is such that when the slides are reciprocated, as and by the mechanism hereinafter described, parts of the picture 4 will appear to move. The slides may be operated in any desired way. If considered expedient, they may be supplied with shoulders or abutments 18 adapted to cooperate with cams 19 on a shaft 20, the cams being set with respect to each other so as to produce the necessary relative differential movement between the slides in timed relation. The shaft 20 may be driven by a pulley 21, or in any other desired way, and is journaled in bearings 22 on the guide bars 6.

In view of the foregoing description, the operation of the device may be dealt with briefly, it being understood that when the

shaft 20 is rotated, the slides are reciprocated by the action of the cams 19 on the shoulders 18, the tongues 15 being shifted between and with respect to the frame panels 3 so as to cause any desired part of the picture 4 to appear in motion.

I claim:—

1. In a device of the class described, a frame, panels on the frame, slides mounted to reciprocate on the frame, one slide comprising spaced parts and a connection therebetween, the connection retaining the other slide for reciprocation, tongues carried by the slides, and operating between the panels, the panels and the tongues being provided with cooperating display matter, and means for reciprocating the slides.

2. In a device of the class described, a frame, panels on the frame, slides mounted to reciprocate on the frame, one slide comprising spaced parts and a connection therebetween, the connection retaining the other slide for reciprocation, tongues carried by the slides, and operating between the panels, the panels and the tongues being provided with cooperating display matter, a shaft supported for rotation, cams carried by the shafts, and shoulders on the slides, where-with the cams coact.

3. In a device of the class described, a frame, panels on the frame, guides on the frame, a retainer connecting the guides, a first slide comprising spaced parts and a connection therebetween, said parts of the slide cooperating with the guides and operating beneath the retainer, a second slide comprising spaced parts and a connection therebetween, said parts of the second slide coacting with the corresponding parts of the

first slide and being mounted to reciprocate beneath the connection of the first slide and the retainer, a third slide mounted to reciprocate between said parts of the second slide and beneath the retainer and the connections of the first and second slides, tongues carried by the slides and operating between the panels, the panels and the tongues being provided with cooperating display matter and means for reciprocating the slides.

4. A device of the class described, constructed as set forth in claim 3, and further characterized by the fact that means for reciprocating the slides embodies mechanical means under the control of an operator for moving the slides in one direction, and spring means for moving the slides in an opposite direction.

5. In a device of the class described, a frame, panels carried by the frame, pictorial elements on the panels, sets of tongues slidably supported on the frame and cooperating with the panels, the tongues being provided with pictorial elements duplicating some of the pictorial elements of the panels and so located relatively to the pictorial elements of the panels as to produce the effect of motion when the sets of tongues are reciprocated, all of the sets of tongues being so located with respect to each other that all of the tongues of each set overlap the tongues of all of the other sets, and means for imparting differential reciprocation to the sets of tongues in timed relation.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

LOUIS G. JORDAN,