R. J. O'TOOLE.

TOY PICTURE EXHIBITOR.

APPLICATION FILED FEB. 16, 1921.

1,433,564. Patented Oct. 31, 1922.

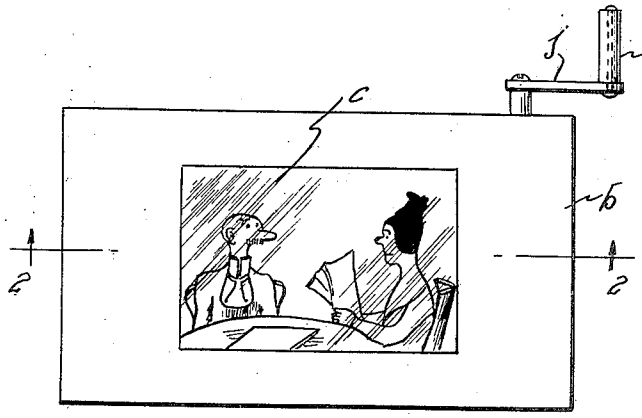


Fig. 1

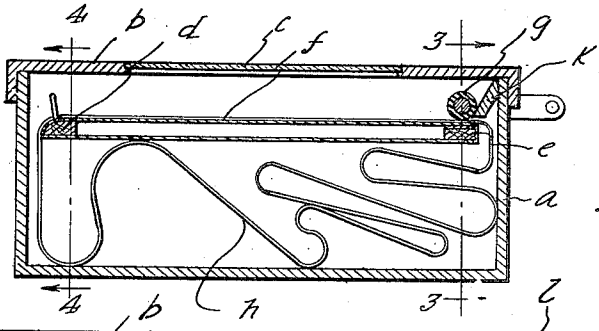


Fig. 2

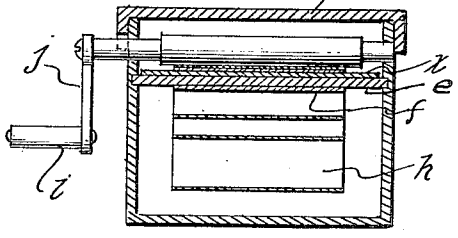


Fig. 3

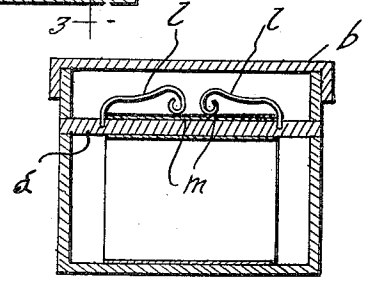


Fig. 4

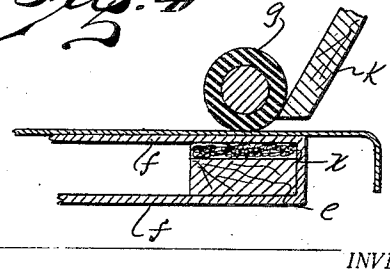


Fig. 5

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UNITED STATES PATENT OFFICE.

RAYMOND J. O'TOOLE, OF DETROIT, MICHIGAN.

TOY PICTURE EXHIBITOR.

Application filed February 16, 1921. Serial No. 445,463.

To all whom it may concern:

Be it known that I, RAYMOND J. O'TOOLE, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Toy Picture Exhibitors, of which the following is a specification.

This invention relates to toys, and has for its object a toy moving picture apparatus which can be operated by a child with the aid of a crank. The idea is to provide a paper propelling and storing device which may be provided with a removable endless band on which a series of pictures may be impressed. For instance, a series of comical pictures may be cut out of a newspaper and the end of the strip pasted together after the strip has been mounted on the propelling device. These features will be better understood when the detailed description has been given.

In the drawings,—

Fig. 1 is a plan view of the box in which the apparatus is contained.

Fig. 2 is a section on the line 2—2 of Fig. 1.

Fig. 3 is a cross section on the line 3—3.

Fig. 4 is a cross section on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged section of the propelling roll.

The box is designated *a* and is provided with a cover or lid *b*. The box may be made out of wood, pasteboard or any other suitable material. In the middle of the cover is provided a pane of transparent material *c*. A pair of bars *d* and *e* is secured in the side walls of the box at opposite ends to support the band or strip of linen or other fabric *f*. This is preferably a smooth glazed-surface fabric which permits the moving picture strip to glide over the same freely and without friction. The upper run of this band *f* serves as a support for the picture strip while the lower run of the band *f* serves to hold the folds *h* of the picture strip from coming up any higher and getting into the way of the part of the strip that is being propelled under the window *c* for exhibition. Above the pad *x* of the bar *e* is located a rubber-covered roll *g*. On the end of the roll shaft is a crank *j* provided with a handle *i*. *k* is a bar running across the box behind the roll *g* to prevent the paper strip from rising up behind the roll.

The bar *d* at the opposite end of the box is provided with a pair of spring arms *l* which perform two useful functions. They are set in the bar with a proper spacing to act as a guide for the paper strip against lateral displacement. They are also provided with turned-over ends *m*, *m* which bear down against the paper strip yieldingly to provide a suitable tension to keep the top run of the paper strip taut for exhibition purposes. Hence the spring arms *l* perform the double function of a tension and guiding device.

The child may cut out a roll of pictures from a newspaper, for instance, take the strip and run it through between the roller *g* and the bar *e* and under the abutment *k*, the end of the strip may then be brought down under the band *f* and up between the spring arms *l* and the bar *d*, and the two ends of the strip pasted together to form an endless band. Thereupon the crank *g* may be rotated to take up the slack and draw the upper part of the paper picture strip taut between the roller *g* and the spring arms *l*. Obviously by rapidly turning the crank the pictures are caused to succeed each other in rapid order under the exhibiting window *c* to the amusement and interest of the child. Obviously the paper strip may be taken out at any time and replaced by a new one, which will occupy the child after he tires of playing with the old strip.

What I claim is:

1. In a toy picture exhibitor, the combination of a box, a lid therefor provided with an exhibition opening, a propelling roll located at one end of the opening, and a tension device located at the other end of the opening, said propelling roll and tension device being arranged to cause an endless band of pictures or other exhibition matter to be propelled under the exhibition opening in taut relation and stored in folds in the bottom of the box.

2. In a toy picture exhibitor, the combination of a box provided with an exhibition opening, a pair of bars, one located at each end of the opening, a propelling roll adjacent one bar, and a tension device adjacent

the other bar, said members being arranged to propel an endless strip of pictures or other exhibition matter in taut relation under the exhibition opening and store part of the same in folds at the bottom of the box.

3. In a toy picture exhibitor, the combination of a box provided with an exhibition opening, a pair of bars at the opposite ends of the box, a propelling roll adjacent one bar, and a tension device in the form of spring arms for guiding and providing tension for an endless strip, said arms being attached to the said bar and the said members arranged to propel and guide a strip of pictures or other exhibition matter under the exhibition opening in taut relation and store a part of the same in folds at the bottom of the box.

4. In a toy picture exhibitor, the combination of a box provided with an exhibition opening, a pair of bars supported at opposite ends of the box, a fabric band stretched over said bars, and a frictional propelling roll above one of the bars, the said parts arranged so that a strip of pictures or other exhibition matter may be passed between the propellor roll and the band over the bars and caused to fold at the bottom of the box and run taut over the top run of the fabric band that runs over the bar.

In testimony whereof I affix my signature.

RAYMOND J. O'TOOLE.