UNITED STATES PATENT OFFICE.

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PICTURE-STRIP TOY.

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To all whom it may concern:

ing is a specification.

for the direct viewing or the screen pro-

One characteristic feature of this toy dehaving three chambers, the central chamber or wheel and wound up in one of the end

This arrangement permits to obtain an apparatus of a very cheap construction which is very convenient in use and in which the picture strip is not liable to be damaged or

torn off.

forth in the following description.

In the accompanying drawing which shows by way of example an embodiment of this invention.

Fig. 2 is a cross-section, and

Fig. 4 shows one end of the picture strip.

40 herein represented, the device comprises an ture 6, that is, at the middle of the loose approximately rectangular box 1 divided by up the film or picture strip 5 which is unthrough the middle chamber 3. The latter forms a dark chamber of oblong shape having on one side thereof the aperture 6 for forations are not required for effecting the lighting the film by transparence, and on the movement of the film, but nevertheless they other the viewing lens 7.

The picture strip is made of a resilient material preferably transparent or trans-

graphic images arranged one below the other 55 Be it known that I, JACQUES MARETTE, like the images of a moving picture film. citizen of the French Republic, residing at Said images may have a correlation with Vincennes, Seine, in the Republic of France, each other or not and form for instance a 5 have invented new and useful Improvements collection of views of the monuments of a in Picture-Strip Toys, of which the follow- town, etc. Said picture strip may be ob- 60 tained from a blank cinematographic strip This invention relates to a toy device provided with the usual perforations which will permit the same to be fed through the 10 jection of photographic views carried by usual machines for printing, fixing, washing, a flexible band similar to a cinematographic drying cinematographic films and like opera- 65 tions.

The thickness of a box of this kind will vice resides in that it comprises a receptacle correspond to the width of the film which is used, or about 30 millimeters, in the example containing an actuating roller or toothed indicated in which one edge of the film is 70 wheel provided with an operating knob, a cut off by the width of a row of perforations lens and a lighting aperture which is pref- in order to reduce the size of the device erably closed by a ground glass, the picture as far as possible. The other edge is used strip being drawn along by the said roller for drawing along the film. The band 5, which is supposed to have one meter length 75 chambers while it is unwound in the other in the example herein shown, may be readily placed when formed in a roll, in one of the chambers 2 or 4.

In the middle chamber 3, is disposed a suitable actuating roller 8 whereby only a 80 slight effort is required to cause the film to be unwound from one chamber and wound Other characteristic features will be set up automatically upon itself in the other chamber, and vice versa, thus causing the successive images of the film to come before 85 the lens 7. The roller 8 may be made of rubber or provided with a rubber rim and it will Fig. 1 is an outer perspective view of the exert a slight pressure on the picture strip. It is actuated by means of an outer knob 9. Inasmuch as the film travels in either di- 90 Fig. 3 a longitudinal section of the same. rection according as the knob 9 is turned in one or the other sense, it is preferable to According to the form of construction dispose the wheel 8 in the axis of the aperportion of the film, as this will afford the 95 partitions 1a, 1b into three chambers. The most satisfactory working, and a symmetritwo end chambers 2 and 4 are used to store cal device may be thus constructed. The actuating roller is caused to bear only upon wound from one of said chambers and the perforated edge of the band, that is, wound up again in the other after passing outside the images, and in this manner no 100 scratching of the latter will ensue.

With a rubber roller such as 8, the per-

will facilitate this movement. The film may also be caused to travel, by the use of teeth engaging the said perfolucid. It is provided with a series of photo- rations, for instance by employing a toothed

disk. Should a piece of ground glass 10 be of being transparent or translucid might be provided in the aperture 6, this will have the made of an opaque material, the images betwofold advantage of preventing dust from ing then observed by reflexion. entering the box since the latter will now 5 be entirely closed, and also of constituting an excellent bearing surface for the film, inas- Patent is: much as the smooth side of the glass will facilitate the sliding of the film.

The two ends of the film 5 may be rolled 10 upon themselves or provided with a small cylinder of cardboard or like material, in such manner as to prevent the film from ture on one wall of the middle chamber

the operation.

provided at each end with a small rounded and intended for direct viewing of the strip metal clip 11 (Fig. 4) of reduced width

whereby friction will be reduced.

ent for obtaining a perfectly smooth and chamber, said end chambers having curved satisfactory winding up of the picture-strip, walls merging progressively into the straight which is essential for a good working and portions of the apertured walls for obliging durable use of the apparatus. It has been the strip to wind up over itself when entersaid end chambers a form similar to that titions leaving small gaps adjacent to said

4 should have at a a curve which will pro- upon the curved walls of the latter. gressively merge into the straight portion of the middle chamber containing the aper- two rigid cross partitions fixed on the casbe jammed or wound irregularly upon itself ing the latter between said two apertures in band. The walls of the casing of the appa- with an outer actuating knob, said end of its inner wall.

spected and the picture strip readily re-placed by another, the casing is preferably ing the strip which enters said chambers closed at one side by a lid provided with through said gaps to slide upon the curved one or more hinges 15, as shown in Fig. 1 walls of the latter. and a lug which forms a slight projection as shown at 16 and enables the lid to be two rigid cross partitions fixed on the casing

easily opened.

65 of example only. The picture-strip instead ture by transparence, a viewing lens closing

Having now described my invention, what I claim as new and desire to secure by Letters 70

I. A picture strip toy comprising a casing, two rigid cross partitions fixed on the casing and dividing said casing into a middle and two end chambers, a flexible 75 picture strip within said casing, an aperleaving the chambers 2 and 4 at the end of for lighting the picture by transparence, a viewing lens closing another aperture on For the same purpose, the strip may be the opposite wall of the middle chamber 80 pictures, feeding means for drawing the picture strip between the two apertures of Experience has shown that the shape given the middle chamber in either direction at to the end chambers 2 and 4 is not indiffer- will from one end chamber to the other end 85 ascertained that it is desirable to give to ing said end chambers and said cross par-90 shown in the drawings, especially in Fig. 3. wall having an aperture for lighting the As a matter of fact, it is necessary that picture for obliging the strip which enters As a matter of fact, it is necessary that produce the inner wall of each end chamber 2 and said chambers through said gaps to slide

2. A picture strip toy comprising a casing, ture 6, said curve being such that when the ing and dividing said casing into a middle strip begins to protrude into the end cham- and two end chambers, a flexible picture ber, the end of said strip in creeping along strip within said casing, an aperture on one 100 said wall a under the action of the roller wall of the middle chamber for lighting the 8 forms immediately a first coil. The suc- picture by transparence, a viewing lens ceeding coils will then be formed in the closing another aperture on the opposite required sense as shown in Fig. 3 and in wall of the middle chamber and intended no case in the opposite direction which for direct viewing of the strip pictures, a 105 would give rise to jars in the operation of roller located in the middle chamber and the actuating knob and cause the strip to acting upon one edge of said strip for drawwhereby risks of breakage would appear. either direction at will from one end cham-Moreover, the inner angles should be ber to the other end chamber, a shaft carry- 110 rounded as shown at b and c in order to ing said roller, said shaft being pivoted upon permit a smooth and regular guiding of the one side wall of the casing and provided ratus having a reduced thickness so as to chambers having curved walls merging pro-obtain a construction as cheap as possible, gressively into the straight portions of the the outer shape of the casing will prefer- apertured walls for obliging the strip to ably correspond approximately to the shape wind up over itself when entering said end chambers and said cross partitions leaving To enable the apparatus to be easily in- small gaps adjacent to said wall having an

3. A picture strip toy comprising a casing, and dividing said casing into a middle and The invention is not restricted to the con- two end chambers, a flexible picture strip structional features either shown or de- within said casing, an aperture on one wall scribed, which have been selected by way of the middle chamber for lighting the pic-

another aperture on the opposite wall of the ture by transparence, a viewing lens closing

within said casing, an aperture on one wall 25 of the middle chamber for lighting the pic-

middle chamber and intended for direct another aperture on the opposite wall of the viewing of the strip pictures, feeding means middle chamber and intended for direct for drawing the picture strip between the viewing of the strip pictures, feeding means 5 two apertures of the middle chamber in for drawing the picture strip between the 30 either direction at will from one end cham- two apertures of the middle chamber in ber to the other end chamber, said end cham- either direction at will from one end chambers having curved walls merging progres- ber to the other end chamber, said end chamsively into the straight portions of the aper- bers having curved walls merging progres-10 tured walls for obliging the strip to wind up sively into the straight portions of the aper- 35 over itself when entering said end chambers, tured walls for obliging the strip to wind said cross partitions leaving small gaps ad- up over itself when entering said end chamjacent to said wall having an aperture for bers, said cross partitions leaving small gaps lighting the picture for obliging the strip adjacent to said wall having an aperture for 15 which enters said chambers through said lighting the picture for obliging the strip 40 gaps to slide upon the curved walls of the which enters said chambers through said latter, and abutment means provided at the gaps to slide upon the curved walls of the ends of said picture strip and having a latter, and rounded metal clips secured rethickness greater than the width of the gaps. 4. A picture strip toy comprising a casing, said metal clips having a thickness greater 45 two rigid cross partitions fixed on the casing than the width of the gaps.

and dividing said casing into a middle and In testimony whereof I two end chambers, a flexible picture strip name to this specification. In testimony whereof I have signed my

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PICTURE STRIP, TOY

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