

May 3, 1932.

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1,856,719

TOY MOVING PICTURE MACHINE

Filed June 13, 1931

2 Sheets-Sheet 1

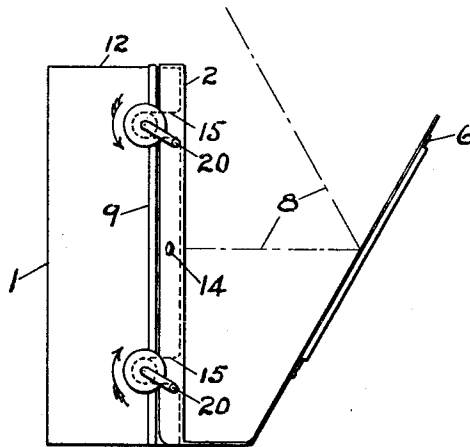


FIG. 1.

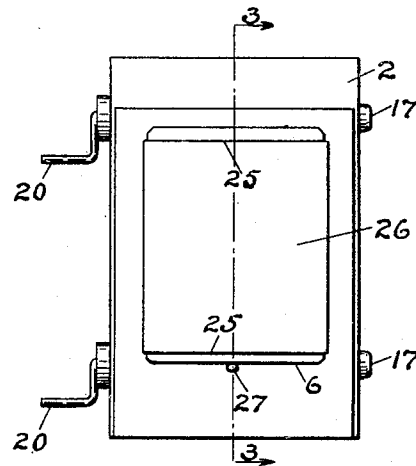


FIG. 2.

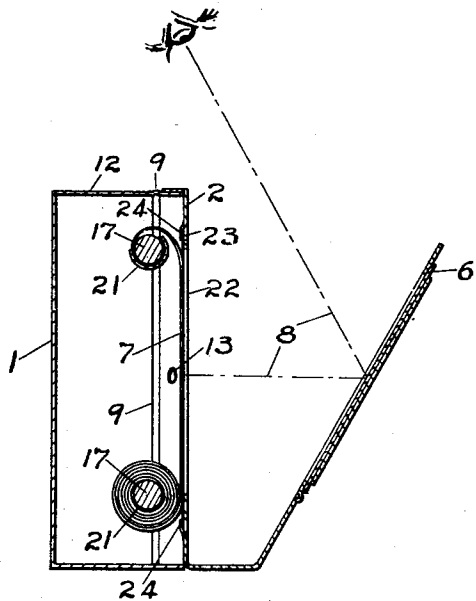


FIG. 3.

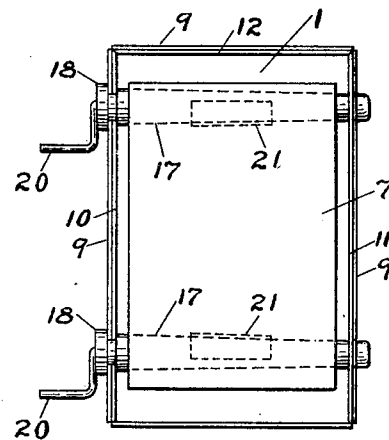


FIG. 4.

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FIG. 5.

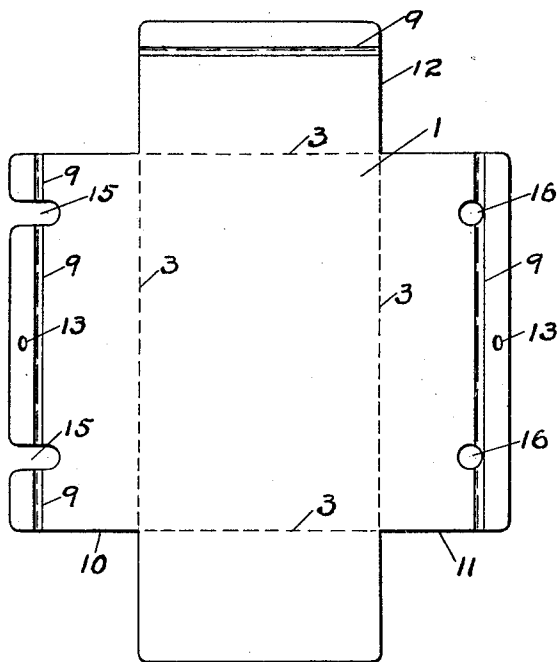


FIG. 6.

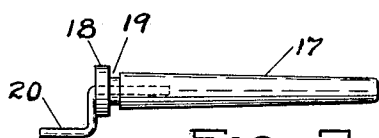
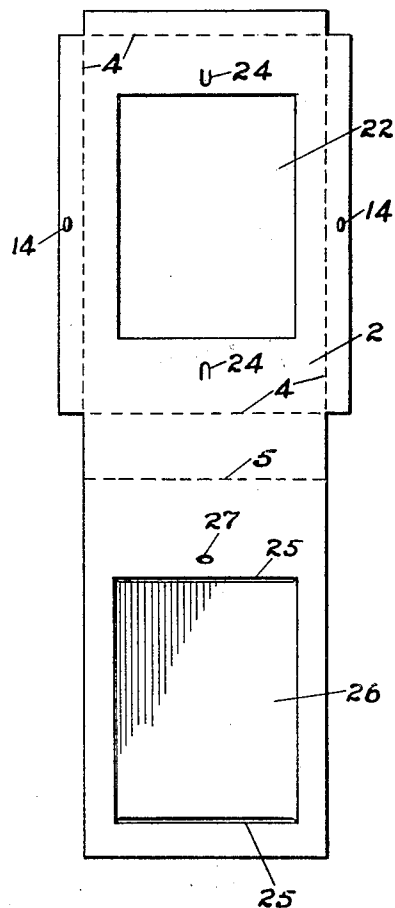


FIG. 7.

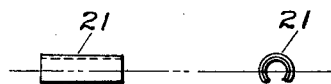


FIG. 8. FIG. 9.

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## TOY MOVING PICTURE MACHINE

Application filed June 13, 1931. Serial No. 544,153.

My invention relates to a class of toy picture machines which provides for the indirect viewing of the pictures carried by a film or strip.

5 The object of this invention is to provide a moving picture toy which will be efficient and practical by showing pictures clearly and of such size as to be satisfactory to view while so simple and inexpensive in construction as to be marketable in five and ten cent sizes for children and with extra strips of pictures for one cent each.

10 With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain features of novelty in the construction, combination and arrangement of parts by which the said objects are attained, the invention being more particularly pointed out in the claims.

15 It is understood that various changes may be made in the construction and arrangement of parts without departing from the spirit or sacrificing any of the advantages of the invention as set forth in the appended claims.

20 Referring to the drawings accompanying and forming a part of this specification, wherein like symbols refer to like or corresponding parts throughout the several views:

Figure 1 is a side elevation of my moving picture machine showing the handles for operating same.

25 Fig. 2 shows a front elevation of the machine.

30 Fig. 3 is a sectional elevation of the machine shown in Fig. 1 and on a line 3—3 of Fig. 2, and showing a dot and dash line of sight from the center of the picture on the film strip to the mirror toward the eye of the observer which would be above the machine.

35 Fig. 4 is a front elevation of the machine with the cover and mirror removed to show the film strip and rollers.

Fig. 5 is the casing of the machine which is in one piece and shown developed as cut out and stamped from a sheet of metal.

40 Fig. 6 is the cover of the machine which is

in one piece and shown developed as cut out and stamped from a sheet of metal.

Fig. 7 is one of the two rollers, (which are duplicates) and its handle for operating same.

45 Figs. 8 and 9 are side and end views of the metal clip for attaching the film strip to a roller.

50 In the figures, 1 is the rectangular casing open on the front, said opening closed by the cover 2. The casing 1 is stamped out of single piece of material as shown in Fig. 5 for bending at right angles along the dotted lines 3 to form the rectangular shape as shown in Figs. 1, 3 and 4. The cover 2 is stamped out of a single piece of material as shown in Fig. 6 for bending at right angles along the dotted lines 4 to form a cover for casing 1, and for bending at an obtuse angle on dotted line 5 to take the shape shown in Figs. 1 and 3 for holding a mirror at the proper angle and away from said casing 1 so the observer can see the picture reflected from the film strip 7 as indicated by the dot and dash line 8. On casing 1 a bead 9 is formed (Fig. 5) on the sides 10 and 11 and the top 12 to stiffen them and as a stop for the cover 2 when acting in conjunction with the detents or pressed out portions 13 of said casing 1 and the corresponding detents or pressed out portions 14 of said cover 2.

55 The sides 10 and 11, the top 12 and the bottom of casing 1 can be fastened at the corners, but are preferably left free, as the overlapping cover 2 holds the sides and top and the bottom rests on a table in line with the extended horizontal portion of the cover 2 when in use.

60 15 are slots in side 10, and 16 corresponding holes in side 11 to support and form journals or bearings for the rollers 17. The rollers 17 have a large portion on one end forming a boss 18 to overlap the edge of cover 2 when in place and a reduced portion or groove 19 next to said boss 18 to form a bearing and hold said roller 17 in place and prevent end motion. From the groove 19 the roller tapers to the opposite end. A handle 20 is inserted and fastened into the boss end of roller 17 to turn it. Each end of film strip 7 is fas-

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tened on to a roller 17 by means of a clip 21. Clip 21 is cut out on one side and has the same taper from end to end as roller 17, over which it is slipped endwise to bind the film strip 7 to said roller 17 as shown.

Cover 2 is cut out to leave a sight opening 22 which is covered by a transparent piece of material 23, as celluloid, to expose the pictures on the film strip 7. The sight opening 22 being large and nearly as wide as the strip 7, the transparency 23 keeps the strip 7 smooth and prevents it from slipping into and binding in said opening 22. The celluloid 23 is fastened in the cover 2 by means of fingers 24 cut and bent from said cover 2.

The mirror holding portion of cover 2 is slotted in two places as 25 and pressed out at 26. Reflecting material, as a bright piece of tin, is inserted in slots 25 to a pressed out stop 27 and forms a mirror 6. One edge of cover 2 forms a cap to hold the rollers 17 in the slots 15 when said cover 2 is on casing 1.

The cover 2 is easily removed by springing in side 11 of casing 1 with the fingers away from cover 2. A new film strip is then substituted for the old by lifting the handle end of rollers 17 and withdrawing said rollers 17 from the holes 16 and clipping on a new film with clips 21.

In the operation of the machine, the film strip 7 is first in position wound on the lower roller as shown in Fig. 3 and rolled on to the upper roller by turning said upper roller in the direction of the arrow shown in Fig. 1. To return the strip 7 on to the lower roller, the lower handle is turned in the direction of the arrow for said lower roller in Fig. 1.

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

1. A toy picture machine including a rectangular casing open on the front, an upper and a lower tapered roller journaled in said casing by means of holes in one side of said casing and slots in the opposite side of said casing, a film strip fastened at its ends to said tapered rollers, tapered clips to fasten said strip to said tapered rollers, a cover for the front opening of said casing to hold said rollers in said slots and having a sight opening for said film strip, a transparency for covering said sight opening and a mirror external to and in front of said casing, said mirror mounted in a portion of said cover extending away from the bottom of said cover.

2. As a product of manufacture, a toy picture machine including a rectangular casing having a back, two sides, top and bottom formed of a single piece of material, beading on the sides and top as stops for a cover, a cover formed of a single piece of material for the open front of said casing and having a sight opening therethrough, a film strip in said casing, two rollers in said casing, one above and one below said sight opening for

holding and exposing said film strip through said sight opening, said rollers journaled in the sides of said casing by means of holes in one side and slots in the opposite side, a mirror and a support for said mirror formed from said cover and extending away from and in front of said cover.

3. As a product of manufacture, a toy picture machine including a rectangular casing formed of a single piece of material, the sides, top and bottom attached to and bent at right angles thereto, a cover formed of a single piece of material for the front of said casing and having a sight opening therethrough, a film strip in said casing to be exposed through said cover sight opening, an upper and a lower roller with handles for holding and moving said film across said sight opening, each of said rollers journaled in said casing on one side by means of slots, said cover having sides to overlap said casing, attach thereto and hold said rollers in said slots, and a bottom portion extending horizontally away from said casing and terminating in an upwardly extending portion in front of said sight opening and a mirror attached to said upwardly extending portion and opposite said sight opening.

4. A toy picture machine including a rectangular casing open on the front, an upper and a lower roller opposite the sight opening, said rollers grooved on one end for bearing in slots in one side of said casing and tapering to the opposite end for bearing in holes in the opposite side of said casing, a film strip in said casing, tapered clips to fasten said film strip to said rollers, a cover for the front of said casing and having a top and sides overlapping said casing, detents on the sides of said cover and corresponding detents on the sides of said casing, a sight opening through said cover to expose said film strip, a transparency covering said sight opening, said cover extending from the bottom thereof away from said casing and in an upward direction at an angle and a mirror mounted in said upward cover extension and opposite the center of said sight opening.

In testimony whereof, I affix my signature.

MICHAEL J. McINTYRE.