May 11, 1943. W. H. DRUCE 2,319,046

DISPLAY DEVICE

Filed July 29, 1941

FIG. 1.

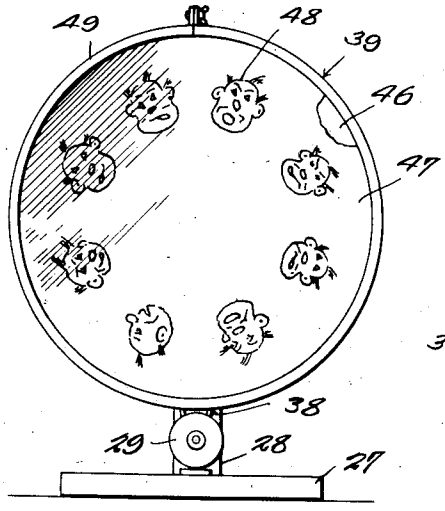
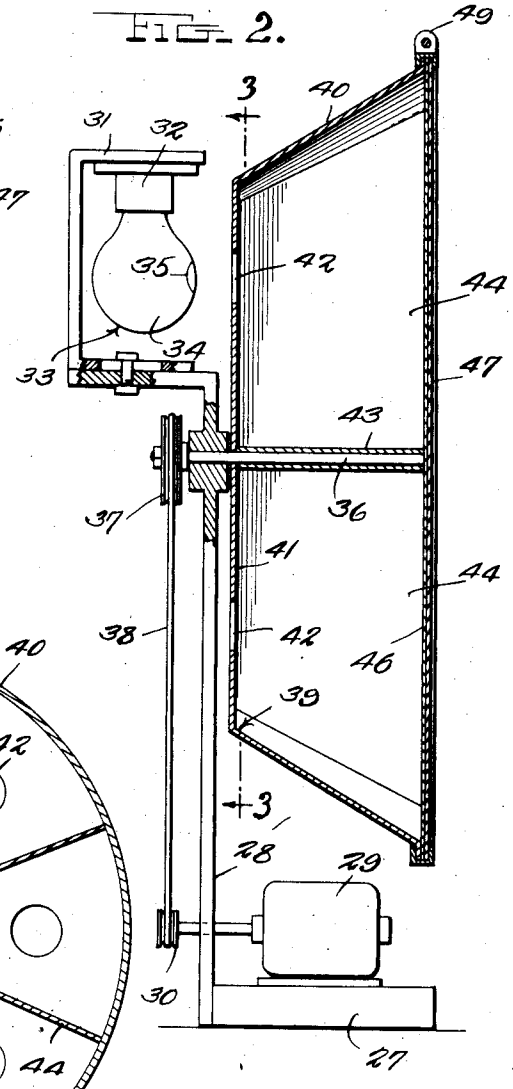


FIG. 2.



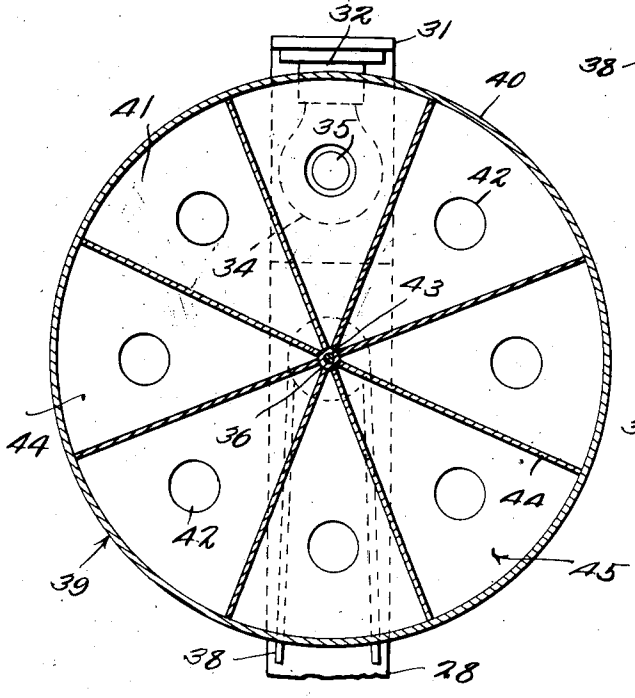


FIG. 3.

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DISPLAY DEVICE

Walter H. Druce, Pocatello, Idaho

Application July 29, 1941, Serial No. 404,552

5 Claims. (Cl. 88—18.8)

This invention aims to provide a simple machine which will create the illusion of a motion picture, without resorting to an enclosing cabinet, having a peep hole.

A further object of the invention is to supply a device of the class described which, is adapted to be used in connection with a source of illumination, such as a lamp, it being unnecessary, in that form, to supply the cabinet and peep hole.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present 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 changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:

Fig. 1 is a front elevation wherein is shown a device constructed in accordance with the invention;

Fig. 2 is a vertical section;

Fig. 3 is a vertical section at right angles to the showing of Fig. 2, and taken on the line 3—3 of Fig. 2.

The drawing shows that a base 27 is provided, and it carries a standard 28. To the base 27 is secured a motor 29, the shaft of which is journaled in the standard 28, the shaft being provided with a small pulley 30. At its upper end, the standard 28 is offset to form a laterally-opening, U-shaped hanger 31, on the upper part of which is secured a socket 32, receiving an electric lamp 33. Most of the lamp globe is rendered opaque, as shown at 34, but a small, circular part 35 of the globe is transparent.

A shaft 36 is journaled in the standard 28, and carries a pulley 37, which is larger than the pulley 30. The pulleys 30 and 37 are connected by a belt 38. A record carrier 39 is mounted on the shaft 36, to rotate therewith.

The record carrier 39 is of frusto-conical form, and is open at the front, saving as hereinafter specified. The carrier 39 includes a rim 40 and a back 41, the back having circumferentially spaced openings 42, so located that they will come into registration, one at a time, with the transparent part 35 of the globe of the lamp 33.

A hub sleeve 43 is secured to the shaft 36 and is secured at its rear end to the back 41 of the record carrier 39. Opaque radial partitions 44 extend forwardly from the back 41, and from the hub sleeve 43 to the rim 40. The partitions 44 define compartments 45 in the record carrier 39, each of the openings 42 being individual to one of the compartments. The partitions 44 prevent the light proceeding from the lamp 33 from being disseminated throughout the entire record carrier at once, each compartment 45 receiving light in its turn, as the record carrier 39 is rotated.

A record 46 closes the front of the record carrier 39, and in front of the record is located a sheet of tracing paper, oiled paper, Celluloid or the like which, although not transparent in the sense that glass is transparent, nevertheless is transparent enough so that objects can be seen through it, as shown in Fig. 1. The record 46 carries a plurality of pictures 48, of the motion picture type.

The record 46 and the sheet 47 are held on the front of the record carrier 39 by means of a clamp spring 49 or another equivalent instrumentality. The pictures 48 are so located that, as the carrier 39 is rotated, the pictures will be illuminated through the respective openings 42 in the record carrier, from the part 35 of the globe of the lamp 33.

By selecting a line of sight, and maintaining it, the motion picture illusion will be afforded.

The device shown is adapted to be used after nightfall or when there is insufficient light from some other cause. It is adapted to be used for advertising, and for any sort of projection which calls for a motion picture display. The partitions 44 extend forwardly into engagement with the record 46 and constitute a sustaining backing for it. The lamp 33 is so mounted as to be adjustable forwardly or backwardly in order to obtain proper focus. Furthermore the holes 35 and 42 can be made as small as necessary in order to give correct timing. The sheet 47 is preferably of a dark shade, such as grey, in order to give the best results should there be light present where the display is being made.

What is claimed is:

1. An exhibitor of the class described, embodying a hollow record carrier comprising a rim and a back, the back being provided with circumferentially spaced openings, substantially radial partitions in the carrier and extended outwardly to the rim, the partitions defining compartments to which the openings are individual, a record mounted on the front of the carrier and having

progressively varying markings individual to the compartments and alined, respectively, with the openings, means for mounting the carrier for rotation, and a source of light external to the carrier and so located as to send its rays through the openings one at a time, when the carrier is rotated.

2. An exhibitor of the class described, constructed as set forth in claim 1, and wherein the partitions are extended forwardly into supporting relation with respect to the record.

3. An exhibitor of the class described, embodying a hollow record carrier comprising a rim and a back, the back being provided with circumferentially spaced openings, substantially radial partitions in the carrier, the partitions defining compartments to which the openings are individual, a record mounted on the front of the carrier and having progressively varying markings individual to the compartments, and alined, respectively, with the openings, the partitions being extended forwardly into supporting relation with respect to the record, and means for mounting the carrier for rotation.

4. An exhibitor of the class described, comprising a standard, a hollow record carrier including a rim and a back, the back being provided with circumferentially spaced openings, means for mounting the carrier for rotation on the standard, means for rotating the carrier, substantially radial partitions in the carrier, the partitions defining compartments to which the openings are individual, a record mounted on the front of the rim and having progressively varying markings individual to the compartments, and alined, respectively, with the openings, a source of light external to the carrier and so located as to send its rays through the openings, one at a time, when the carrier is rotated, and means for mounting the source of light on the standard, for adjustment toward and away from the back.

5. An exhibitor of the class described, constructed as set forth in claim 4, and wherein the source of light comprises a globe, for the most part opaque, but having a transparent portion so located and dimensioned as to cast light through the openings of the back, successively, as the record carrier is rotated.

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