Aug. 16, 1927. 1,639,526

G. MAYER

ELECTRICAL ILLUMINATED TOY TOP

Filed Feb. 12, 1925

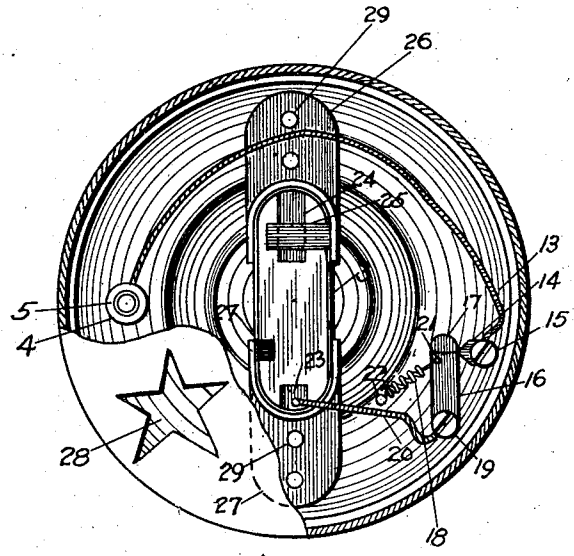


Fig. 1

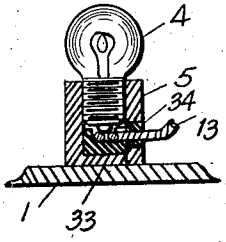


Fig. 4

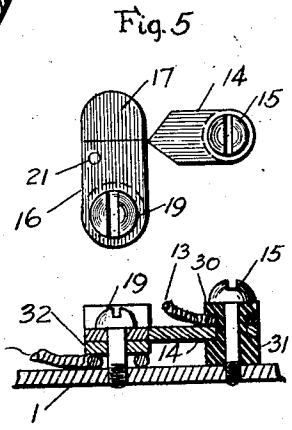


Fig. 3

Fig. 5

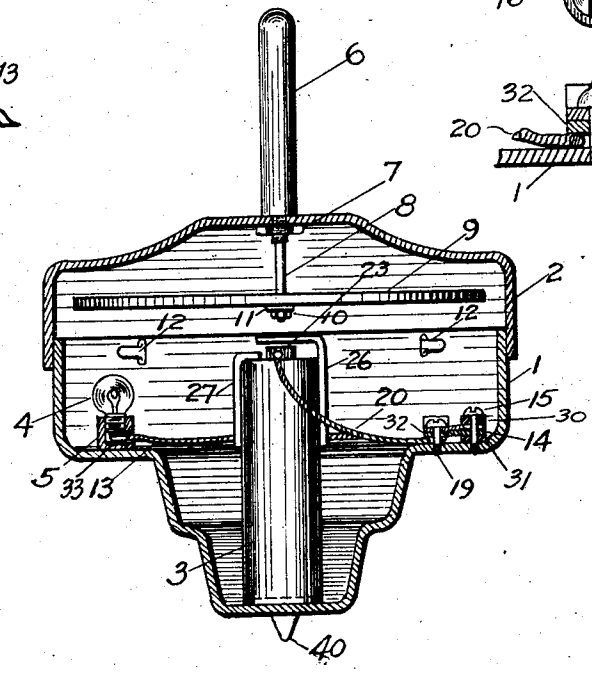


Fig. 2

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Patented Aug. 16, 1927. 1,639,526

UNITED STATES PATENT OFFICE.

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ELECTRICAL ILLUMINATED TOY TOP.

Application filed February 12, 1925. Serial No. 8,820.

My invention specifically provides for a means of retaining an ordinary dry cell battery which may be replaced when power is discharged and a method whereby my top may be taken apart without much effort, so that its contents may be removed and at same time be simple in construction.

Referring to the drawing which illustrates my invention,

Figure 1, is a top plan view;

Figure 2, is a cross-section view;

Figure 3, shows a cross-section view of contact wiring;

Figure 4, shows cross-section of lighting bulb in position in socket;

Figure 5, shows cross-section of contact arm.

Referring more specifically to the drawing, my top is constructed of any suitable sheet metal, consisting of a lower casing 1, and an upper casing 2, which are joined and held together by means of bayonet slots 12, so that same may be taken apart readily, and thus make the interior accessible for removing any part of the top.

The rotation of my top is caused by winding a cord or ordinary winding spool (not shown) around the winding stem 6, which stays in rigid position fixed to the upper part of casing 2 by means of a nut 7, to which the post 8 which is threaded at the lower part, is attached. A colored transparent disc 9 made generally of celluloid is held in position by the post 8, which passes through disc and held by a small plate 11, which is locked by means of nut 10 to the threaded portion of post 8.

The casing retains the battery 3 of the usual dry cell type for flashlight lighting, which is held in position by strips 26 and 27; by means of screws or rivets at 29.

The rotation of the top by centrifugal force throws the arm 16 (held at 19) outwardly by spring 18 weighted by 17, which is held at 21 and attached at 22, said action causing contact with point 14, which is held in position by screw 15, and thus cause the bulb 4 to light and show through the transparent disc 9 and the opening in star-shape form 28, and while such opening 28 may be of any other desired form than the one shown, in any event same is formed in and through the outer top-piece or cap 2, of the top-casing; and it is always located preferably close to or immediately above the lamp 4, located in the contact socket 5.

Entertainment or interest in my top is caused by the light showing through the colored transparent disc as it rotates on peg 40 which is fixed to the lower casing 1.

The bulb 4 is held in socket 5. The socket is insulated by the bushing 34 and the insulation disc 33. The arm 16 is held by the screw 19 which passes through washer 32 in contact with wire 20. The screw is tapped into the casing 1. The wire 13 is connected from bulb 4 to contact point 14 which is prevented from grounding by insulation washers 30 and 31. Wire 20 is connected to battery 3 at pole 23 and to contact arm 16 at the screw 19 which is grounded to casing 1, thus completing the circuit.

I claim:

1. A top having an illuminating means therein, said means comprising a lamp, a battery and a circuit, and a movable make and break device in the circuit and disposed so as to normally have the circuit open but to complete the circuit by the centrifugal force created by the top when spinning, a transparent multi-colored disc loosely mounted within the top above the lamp and adapted to be rotated within the top by centrifugal force produced in the spinning of the top.

2. A top comprising a body having an illuminating means therein, said means comprising a lamp, a battery and a circuit and a movable make and break device in the circuit disposed so as to normally have the circuit open but to complete the circuit by the centrifugal force created by the top when spinning, a post connected to and located within the body of the top, and a transparent multi-colored disc rotatably mounted on the post above the lamp and adapted to be illuminated upon the completion of the lamp circuit.

GUSTAVE MAYER.