March 14, 1944. W. H. MAY 2,344,468

CLOCK

Filed Jan. 28, 1942

Fig. 1.

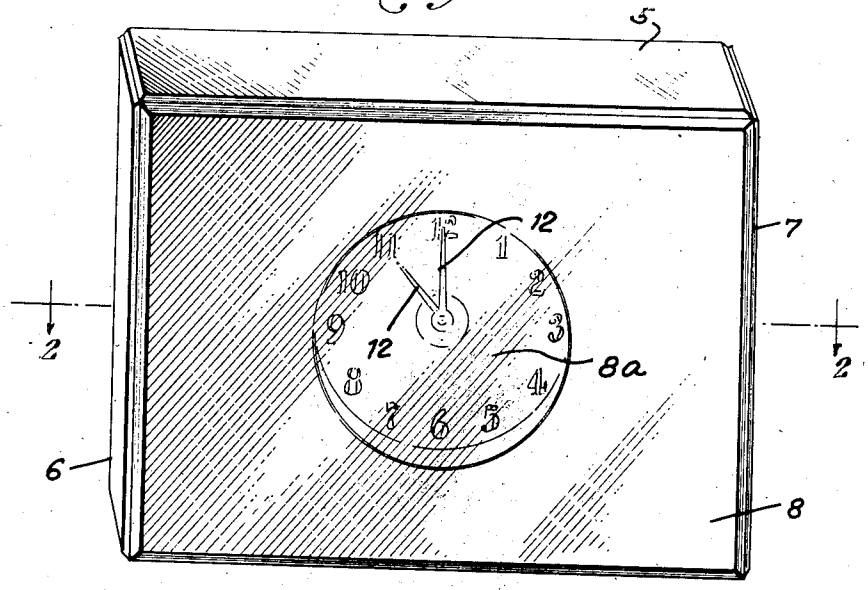
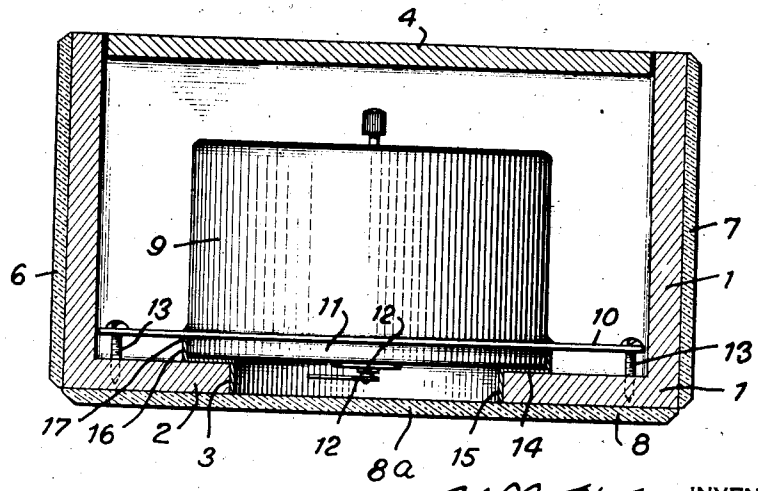


Fig. 2.



Walter H. May INVENTOR

BY

Emery, Vanney, Whittemore & Bit.

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CLOCK

Walter H. May, Pelham Manor, N. Y., assignor to Carlin Comforts, Inc., New York, N. Y., a corporation of New York

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5 Claims. (Cl. 58—53)

This invention relates to clocks.

It is an object of the invention to provide a decorative clock case, and to provide means for mounting a clock movement and dial therein in such manner as to enhance the decorative appearance of the clock, and also to protect the component parts of the assembly from damage during shipment and in use.

Other objects and advantages of the invention will appear hereinafter.

A preferred embodiment of the invention selected for purposes of illustration is shown in the accompanying drawing, in which,

Figure 1 is a perspective view of the clock case.

Figure 2 is a horizontal section on the line 2—2 of Figure 1.

Referring to the drawing, the clock illustrated comprises a case 1, preferably made of wood, plastic or any other suitable material. The front panel 2 of the case is provided with an aperture 3 through which the clock dial may be seen as hereinafter described. The rear panel 4 may be hinged to provide access to the interior of the casing. The top, side and front panels of the case are preferably covered with suitable decorative material. For example, the top panel of the case may be covered by a glass panel 5, the end panels may be covered by glass panels 6 and 7, and the front panel 2 may be covered by a glass panel 8, all of said glass panels being secured to the case in any suitable manner, as by adhesive.

For decorative purposes, the inside faces of said glass panels may be provided with suitable ornamentation as by etching, painting, or otherwise, or the inside face may be silvered to provide a mirror surface. Such ornamentation is preferably applied to all of the inside surfaces of such glass panels so as to cover them entirely, except at that portion of the front panel which covers the aperture 3, this portion 8a being left transparent in order that the dial may be visible through the glass.

The clock movement, which may be of any suitable type, either mechanical or electric, is contained within a casing 9 which is secured to one face of a metal plate 10. A dial plate 11 is secured to the other face of the metal plate 10, and the shafts carrying the hands 12 project through both the metal plate 10 and the dial plate 11 to operate in front of the dial plate within the space formed by the aperture 3 as shown in Figure 2. The dial plate is preferably made of glass and is ornamented in a manner similar to or harmonious with the ornamentation of the glass panels.

The clock movement casing 9 and the metal plate 10 and the dial plate 11 constitute a removable unit, and means are provided for mounting this unit in the case. Such means include screws 13 passing through the edges of the metal plate 10 and threaded into the front panel of the casing. As the screws are set up, the unit is pulled toward the front panel and is held against the front panel behind the aperture 3. Since the metal plate is capable of bending and yielding as the screws are set up, the unit is in effect yieldingly mounted, and the dial plate is protected from breakage from excessive stresses. In order to provide further protection, an annular disk 14 may be provided surrounding the aperture 3 and interposed between the front panel and the dial plate. Said disk has a flanged portion 15 extending into and seating in the aperture 3, and another flanged portion 16 surrounding the dial plate and centering the unit behind the aperture. The flanged portion 16 is of a height slightly exceeding the thickness of the dial plate and terminates in an edge 17 which engages the metal plate 10. Thus as the screws 13 are set up, the strain is taken by the flange which further protects the dial plate against excessive stresses.

It will be understood that the invention may be variously modified and embodied within the scope of the subjoined claims.

I claim as my invention:

1. A clock comprising a case having a front panel having an aperture therein, a transparent panel mounted on the outside face of said front panel and covering said aperture, a casing containing a clock movement, a clock dial, a plate interposed between said casing and said dial, said casing, plate and dial being secured together as a unit, and means for securing said plate to said case with said dial held against the inside face of said front panel behind said aperture, so that said dial may be visible through said aperture and through said transparent panel, said plate being spaced from the front panel of said case by said dial.

2. A clock comprising a case having a front panel having an aperture therein, a transparent panel mounted on the outside face of said front panel and covering said aperture, a casing containing a clock movement, a clock dial, a plate interposed between said casing and said dial, said casing, plate and dial being secured together as a unit, means for securing said plate to said case

with said dial held against the inside face of said front panel behind said aperture, so that said dial may be visible through said aperture and through said transparent panel, said plate being spaced from the front panel of said case by said dial, and a flanged disk surrounding said aperture and interposed between said front panel and said dial, the flanged portion of said disk extending into and engaging said aperture.

3. A clock comprising a case having a front panel having an aperture therein, a transparent panel mounted on the outside face of said front panel and covering said aperture, a casing containing a clock movement, a clock dial, a plate interposed between said casing and said dial, said casing, plate and dial being secured together as a unit, means for mounting said unit within said case against the inside face of said front panel behind said aperture, so that said dial may be visible through said aperture and through said transparent panel, said plate being spaced from the front panel of said case by the thickness of said dial, and a flanged disk surrounding said aperture and interposed between said front panel and said dial, the flanged portion of said disk surrounding said dial, the height of said flanged portion being slightly greater than the thickness of said dial and having an edge which engages said plate.

4. A clock comprising a case having a front panel having an aperture therein, a transparent panel mounted on the outside face of said front panel and covering said aperture, a casing containing a clock movement, a clock dial, a plate interposed between said casing and said dial, said casing, plate and dial being secured together as a unit, means for mounting said unit within said case against the inside face of said front panel behind said aperture, so that said dial may be visible through said aperture and through said transparent panel, said plate being spaced from the front panel of said case by the thickness of said dial, and a double flanged disk surrounding said aperture and interposed between said front panel and said dial, one flanged portion of said disk extending into and engaging said aperture, and the other flanged portion of said disk surrounding said dial, the height of the latter flanged portion being slightly greater than the thickness of said dial and having an edge which engages said plate.

5. A clock comprising a case having a front panel having an aperture therein, a transparent panel covering the outside face of said front panel and covering said aperture, a casing containing a clock movement, a clock dial secured thereto, and a double flanged disk surrounding said aperture and interposed between said front panel and said dial, one flanged portion of said disk extending into and engaging said aperture, and the other flanged portion of said disk surrounding and engaging said dial.

WALTER H. MAY.