

ORIGINAL

ABSTRACT
WATCH DIAL PLATE STRUCTURE

A three-dimensional watch dial plate structure abundant in ornamental effect is provided fully utilizing the characteristics of an electro-optical display device such as a liquid crystal device or an electrochromic device. A color coat such as a white color and clear lacquer layer is laminated on a metal dial plate base. Successively laminated on the surface of a lower glass substrate are a lower transparent electrode layer, a lower electrochromic layer, a solid electrolyte layer, an upper electrochromic layer and an upper transparent electrode layer. The upper transparent electrode layer is formed on the back face of an upper glass substrate, and a transparent glass plate is bonded to the upper glass substrate. A metal hour scale and a metal minute scale each are formed on the surface of the transparent glass plate. The time scales are observed as suspended over the background of the color coat layer when the electrochromic device is uncolored, while they are observed on the background of the colored device when the device is colored.

Fig. 1.

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