Water and Dust Resistant Artificial Candle Apparatus

ABSTRACT

A water and dust resistant artificial candle apparatus comprises a core module, comprising a housing, a twisted flame member, a light source, a drive mechanism and a control circuit; wherein a top portion of the housing has a hermetically sealed blind hole and a lamp-holding hole adjacent to the blind hole; the light source is mounted in the lamp-holding hole hermetically and transmits a convergent light obliquely onto the twisted flame member; a lower portion of the twisted flame member is pivotally mounted in the blind hole; an upper portion of the twisted flame member extends out of the housing through the blind hole; the drive mechanism is positioned under the bottom wall of the blind hole; the control circuit is adapted for to send a drive signal to the drive mechanism; and the drive mechanism occasionally applies a force on the twisted flame member based on the drive signal. The battery box cover is hermetically mounted on the box body by a first seal; the top surface of the supporting member and the inner shell are also hermitically sealed. Water is directed away from the electronics. The present invention has a water and dust resistant effect and simulates a candle flame realistically.