ABSTRACT OF THE DISCLOSURE

BULKY LENS, LIGHT EMITTING UNIT, AND LIGHTING INSTRUMENT

The present invention provides a bullet-shaped lens and light-emitting unit for obtaining desired luminance without using many light sources such as LEDs. The light-emitting unit comprises a light source 1 and a bullet-shaped lens 20 covering the light source 1. The bullet-shaped lens 20 has a bulky body 4 and a cylindrical recess 6 formed upward from the bottom portion of the bulky body 4. The cylindrical recess 6 servers as an accommodating portion for accommodating a main luminous portion of the light source 1. The accommodating portion 6 has an incident surface (a first lens surface) 2 and a sidewall extended from the incident surface 2 to form the recess structure. The bullet-shaped lens 20 further has a transmitting surface (a second lens surface) 3 from which a light entering from the incident surface exits, and the bulky body 4 couples between the incident surface 2 and the transmitting surface 3. The light source 1 is a resin molded LED, comprising an LED chip 13 arranged on a stem connected in unity to a first pin 11, a resin 14 covering the LED chip 13, and a second pin 12 forming a pair with the first pin 11.

(Figure 1)