

ABSTRACT OF THE DISCLOSURE

LED FLOODLIGHT

It is an object of the invention to provide a light-weight LED floodlight that has a relatively simple structure and is easy to assembly without recourse to any complicated heat radiation structure or forced cooling means. The LED floodlight includes a main unit (1) that is longitudinally formed by extrusion molding of a metal material and has in one side an opening of a concave groove having a U-shaped lateral section, and one or more LED units (6) attached to a central portion of an inner bottom (1F) defining the concave groove in the main unit. The main unit (1) is formed on a back side of the inner bottom wall (1F) of the concave groove (1E) by the extrusion molding and has one or more ventilating ducts (2) that are parallel with the extrusion molding direction and are open at upper and lower ends. An area (1D) having a large heat capacity is provided between the inner bottom wall (1F) to which the LED unit (6) is attached and the ventilating duct (2). The main unit (1) is configured such that the LED unit (6) is turned on in a posture where the longitudinal direction of the ventilating duct (2) defines a vertical direction thereby achieving a chimney effect by which heat conducted from the LED unit (6) is transferred to an airflow going up through the ventilating duct (2).

(FIGURE 3)