

ABSTRACT

[77] The present invention relates to a lighting apparatus using light-emitting diodes, in which the lighting apparatus can be designed to have various light distribution characteristics, and overall performance of the lighting apparatus can be improved.

[78] The lighting apparatus of the present invention comprises: a housing having an open bottom and provided with a receiving concave whose diameter increases toward the lower portion, in which the inner side surface of the receiving concave is partitioned into a plurality of mounting surfaces, and a plurality of cooling fins is predominantly formed on the outer side surface in a radial shape to be spaced at regular intervals; a plurality of light source blocks mounted along the mounting surface on the inner side of the housing, provided with a plurality of LED modules installed on the outer surface of a plurality of angle adjusting blocks having multi-step inclined surfaces, set to different radiation angles and brightness, and mounted at positions selectively determined on the plurality of mounting surfaces so that light emitted from the LED modules can implement a predetermined light distribution type; and a protection cover for covering a lower portion of the housing.