

Title (en)
RADIATOR, AND LIGHTING DEVICE

Title (de)
STRAHLER UND BELEUCHTUNGSVORRICHTUNG

Title (fr)
RADIATEUR ET DISPOSITIF D'ÉCLAIRAGE

Publication
EP 2236917 A4 20131204 (EN)

Application
EP 08867446 A 20081205

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Abstract (en)
[origin: EP2236917A1] The present invention provides a heat dissipation device capable of improving heat dissipation performance by spreading a heat exchanging medium, such as air, without increasing its external dimensions, and provides a lighting device having the heat dissipation device. By configuring a heat dissipation device 1 with an inner tube 12 to which heat from LED modules 2, 2 ... is to be transferred, first fins 13, 13 ... protruding from an outer surface 12a of the inner tube 12 in a direction crossing the outer surface 12a, and an outer tube 14 covering the inner tube 12, the heat dissipation surface area is increased and heat dissipation performance is improved without increasing the external dimensions of the heat dissipation device 1. Moreover, heat is efficiently transferred from the surfaces of the inner tube 12, outer tube 14 and first fins 13, 13 ... which form ventilation paths (medium paths) to the air flowing at an increased flow rate by a stack effect, and the air is spread to between adjacent first fins 13, 13 ... and to the bases of the first fins 13, 13 ..., and thus heat dissipation performance is improved without increasing the external dimensions of the heat dissipation device 1.

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