

Title (en)

LED lighting device capable of uniformly dissipating heat

Title (de)

Zur einheitlichen Wärmeableitung fähige LED-Beleuchtungsanordnung

Title (fr)

Dispositif d'éclairage à DEL capable de dissiper uniformément la chaleur

Publication

EP 2244002 B1 20130703 (EN)

Application

EP 09005729 A 20090423

Priority

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Abstract (en)

[origin: EP2244002A1] An LED lighting device (1) with a heat dissipating structure is disclosed. The LED lighting device (1) includes a lamp base (20) coupled with a top cover (10) to form an accommodating space (100) for accommodating a first heat dissipating module (30) and a second heat dissipating module (40). The first heat dissipating module (30) includes a first heat-conducting plate (31), a first heat pipe (32a) and a first heat dissipater (33a). An LED lighting module (50) is connected with the first heat-conducting plate (31), in which an evaporator section (321 a) of the first heat pipe (32a) is disposed thereon. The first heat dissipater (33a) is arranged on a condenser section (322a) of the first heat pipe (32a), and the second heat dissipating module (40) includes a second heat-conducting plate (41) and a second heat pipe (42a). The second heat-conducting plate (41) paralleling to the first heat-conducting plate (31) is connected with the LED lighting module (50). An evaporator section (421a) of the second heat pipe (42a) is disposed on the second heat-conducting plate (41), and whose condenser section (422a) is connected with an inner surface (101) of the top cover (10). Whereby, the heat generated from the LED lighting module (50) can be dissipated uniformly and rapidly.

IPC 8 full level

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CPC (source: EP US)

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Cited by

CN103827581A; CN110748865A; KR101317553B1; KR101309463B1

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