

Title (en)
Lamp and heat sink thereof

Title (de)
Lampe und Wärmesenke dafür

Title (fr)
Lampe et son dissipateur de chaleur

Publication
EP 2390564 B1 20150506 (EN)

Application
EP 10010466 A 20100924

Priority
TW 99116734 A 20100525

Abstract (en)
[origin: EP2390564A2] A lamp comprises a housing (1, 1'), a heat sink (2, 7), a fan (3, 6) and a light-emitting element (42). The housing (1, 1') includes an opening end (11, 11') and a compartment (12, 12') communicating with the opening end (11, 11'). The lamp is characterized in that the heat sink (2, 7) is disposed at the opening end (11, 11') and includes a lateral wall (21, 71), a base (22, 72), a plurality of first connection members (23, 73), a plurality of first air channels (24, 74) and at least one second air channel (25, 75). The base (22, 72) is surrounded by and spaced from the lateral wall (21, 71). The base (22, 72) is connected to an inner circumferential wall of the lateral wall (21, 71) via the first connection members (23, 73), wherein each of the first air channels (24, 74) is formed between adjacent two of the first connection members (23, 73). The at least one second air channel (25, 75) is formed between an outer circumferential wall of the lateral wall (21, 71) and an inner face of the housing (1, 1'). The fan (3, 6) is disposed at one side of the heat sink (2, 7) in the compartment (12, 12'). The light-emitting element (42) is disposed at another side of the heat sink (2, 7).

IPC 8 full level
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CPC (source: EP US)
F21V 29/67 (2015.01 - EP US); **F21V 29/83** (2015.01 - EP US); **F21S 8/02** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by
CN117704339A; US9557631B2; WO2018120847A1; WO2014091369A1; US10837632B2

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