Title (en)

Light source with an indirectly heated filament

Title (de)

Lichtquelle mit indirekt beheiztem Filament

Title (fr)

Source lumineuse avec filament chauffé indirectement

Publication

EP 1206793 B1 20061025 (DE)

Application

EP 00929240 A 20000324

Priority

- DE 0000911 W 20000324
- DE 19939903 A 19990822
- DE 19948420 A 19991008

Abstract (en)

[origin: WO0115207A1] Light source, in particular a light bulb, comprising a bulb (1), a filament (2) located in the bulb (1) and a heating device (3) for the filament, whereby said filament emits both visible light and thermal radiation. In view of the high conversion efficiency between the supplied electrical power and the emitted light output, the light source is configured in such a way that the filament (2) has a flat section (4). A light source of this type can be produced by a method, in which a filament (2) is first manufactured from sintered powdered metal. Then the filament (2) is exposed to a carbon-dioxide or a carbon-dioxide and noble gas atmosphere, to form a metal-carbide. Finally, the filament (2) is sealed into the bulb (1).

IPC 8 full level

H01K 1/02 (2006.01); **H01K 1/04** (2006.01); **H01K 1/08** (2006.01); **H01K 1/10** (2006.01); **H01K 1/14** (2006.01); **H01K 1/32** (2006.01); **H01K 3/02** (2006.01); **H01K 11/00** (2006.01); **H01K 13/02** (2006.01)

CPC (source: EP KR US)

H01K 1/02 (2013.01 - EP US); **H01K 1/14** (2013.01 - EP US); **H01K 3/02** (2013.01 - EP KR US)

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WO 0115207 A1 20010301; AT E343850 T1 20061115; AU 4742200 A 20010319; AU 4742300 A 20010319; BR 0013480 A 20020430; BR 0013489 A 20020514; CN 1211829 C 20050720; CN 1215527 C 20050817; CN 1370327 A 20020918; CN 1370328 A 20020918; DE 50013668 D1 20061207; EP 1206793 A1 20020522; EP 1206793 B1 20061025; EP 1206794 A1 20020522; HK 1048704 A1 20030411; JP 2003507878 A 20030225; JP 2003508875 A 20030304; KR 100664601 B1 20070104; KR 20020038736 A 20020523; KR 20020038737 A 20020523; MX PA02001856 A 20040310; MX PA02001858 A 20040310; RU 2260226 C2 20050910; US 6777859 B1 20040817; US 6903508 B1 20050607; WO 0115206 A1 20010301

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