

Title (en)
Light source

Title (de)
Lichtquelle

Title (fr)
Source lumineuse

Publication
EP 1156272 B1 20071219 (DE)

Application
EP 01104018 A 20010220

Priority
DE 10024427 A 20000519

Abstract (en)
[origin: EP1156272A2] The light source for a lamp (2) is formed by a number of LEDs (32) mounted on a printed circuit board (28). Control gear (31) for the LED voltage can be located in the lamp envelope. The LED's can be varied in color. Empty space in the envelope can be filled with various materials e.g. glass balls (38) to protect the LEDs from vibration.

IPC 8 full level
F21S 4/20 (2016.01); **F21V 9/10** (2006.01); **F21V 9/40** (2018.01); **F21V 15/01** (2006.01); **F21V 23/02** (2006.01); **F21V 25/12** (2006.01); **F21V 27/02** (2006.01); **F21V 31/04** (2006.01); **F21S 4/00** (2006.01); **F21V 5/00** (2015.01); **F21Y 101/02** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)
F21S 4/20 (2016.01 - EP); **F21V 5/00** (2013.01 - EP US); **F21V 15/013** (2013.01 - EP); **F21V 23/02** (2013.01 - EP); **F21V 25/12** (2013.01 - EP); **F21V 27/02** (2013.01 - EP US); **F21V 31/04** (2013.01 - EP); **F21V 17/101** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by
EP2112432A1; NL1037176C2; EP1736703A3; DE102008020998A1; CN102762911A; KR20200014826A; US11371689B2; DE102007040272A1; EP1308670A1; SG115524A1; CN104100867A; NL1035324C2; EP1630475A1; EP1394465A3; EP1808878A1; DE102014214603A1; CN105299485A; US8944630B2; US7659675B2; US7679881B2; WO2010057766A1; WO2004097177A1; WO2018219695A1; WO2006021620A1; DE102010017460A1; WO2011157635A1

Designated contracting state (EPC)
DE FR GB IT

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