Title (en)

SLIP RING LASER ILLUMINATOR FOR SPEED DOMES

Title (de)

GLEITRINGLASERBELEUCHTUNGSVORRICHTUNG FÜR SPEED-DOMES

Title (fr)

ILLUMINATEUR LASER A BAGUE COULISSANTE POUR DOMES RAPIDES

Publication

EP 1649211 A4 20080604 (EN)

Application

EP 04761585 A 20040729

Priority

- CA 2004001415 W 20040729
- CA 2435431 A 20030729

Abstract (en)

[origin: CA2435431A1] An illumination system is provided to enable speed dome camera systems with a minimum of weight increase and existing motor designs to be used in conditions where th e ambient illumination is insufficient for surveillance needs. A laser illumination system is divided and dispersed in the system, with its heavy components, namely the power supply, heat sinks, and laser beam generator mounted outside the speed dome and only a lightweight fibre optic cable output mounted adjacent to the speed dome camera. The key innovation in the present invention is having only a laser beam delivered over an optical slip joint rather than power for a laser, allowing for a higher speed of orientation of the camera. A pulsing system i s used to avoid flashback within the speed dome.

IPC 8 full level

F21V 8/00 (2006.01); **G02B 6/00** (2006.01); **H04N 7/18** (2006.01); **H04N 23/75** (2023.01); **H04N 23/90** (2023.01)

CPC (source: EP KR)

G02B 6/0008 (2013.01 - EP); **H04N 7/18** (2013.01 - KR); **H04N 23/56** (2023.01 - EP)

Citation (search report)

- [X] WO 9708489 A1 19970306 - SCIENCE & ENGINEERING ASSOCIAT [US]
- [A] US 4492427 A 19850108 - LEWIS NORRIS E [US], et al
- [A] US 4398791 A 19830816 - DORSEY GLENN F [US]
- See also references of WO 2005012786A2

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

CA 2435431 A1 20050129; **CA 2435431 C 20090224**; CN 1833137 A 20060913; CN 1833137 B 20120104; EP 1649211 A2 20060426; EP 1649211 A4 20080604; JP 2007501541 A 20070125; KR 101071486 B1 20111010; KR 20060083408 A 20060720; WO 2005012786 A2 20050210; WO 2005012786 A3 20050818

DOCDB simple family (application)

CA 2435431 A 20030729; CA 2004001415 W 20040729; CN 200480022362 A 20040729; EP 04761585 A 20040729; JP 2006521359 A 20040729; KR 20067002090 A 20040729