

Title (en)

CHANNEL LETTER LIGHTING SYSTEM USING HIGH OUTPUT WHITE LIGHT EMITTING DIODES

Title (de)

KANAL-BUCHSTABEN-BELEUCHTUNGSSYSTEM MIT WEISSES LICHT EMITTIERENDEN HOCHLEISTUNGSDIODEN

Title (fr)

SYSTEME D'ECLAIRAGE DE LETTRES A CANAL UTILISANT DES DIODES LUMINEUSES A LUMIERE BLANCHE HAUTE INTENSITE

Publication

EP 1751732 B1 20141119 (EN)

Application

EP 05735893 A 20050414

Priority

- US 2005012822 W 20050414
- US 56248304 P 20040414

Abstract (en)

[origin: WO2005104068A2] A channel letter lighting system according to the present invention comprising a channel letter housing with a translucent channel letter cover. A plurality of electrically connected lighting units are mounted to the channel letter housing and conductors provide an electrical signal to each of the units. Each of the units comprises a lighting unit housing and a printed circuit board (PCB) mounted within said housing. The PCB has a plurality of light emitting elements, such as light emitting diodes, with the electrical signal applied to the light emitting elements causing them to generate light substantially away from the housing. The PCB conducts and dissipates heat from the light emitting elements, the unit further comprises a space between most of the PCB and the lighting unit housing to allow heat from the PCB to dissipate into the surrounding ambient. A mounting mechanism is included for each unit to the channel letter housing.

IPC 8 full level

G09F 13/04 (2006.01); **F21V 29/00** (2006.01); **G09F 13/00** (2006.01); **G09F 13/22** (2006.01)

CPC (source: EP US)

G09F 13/0404 (2013.01 - EP US); **G09F 13/22** (2013.01 - EP); **F21V 29/507** (2015.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005104068 A2 20051103; **WO 2005104068 A3 20060420**; EP 1751732 A2 20070214; EP 1751732 B1 20141119

DOCDB simple family (application)

US 2005012822 W 20050414; EP 05735893 A 20050414