

Title (en)

HIGH-PRESSURE DISCHARGE LAMP OPERATING DEVICE

Title (de)

EINRICHTUNG ZUM BETRIEB EINER HOCHDRUCK-ENTLADUNGSLAMPE

Title (fr)

DISPOSITIF DE FONCTIONNEMENT DE LAMPE À DÉCHARGE À HAUTE PRESSION

Publication

**EP 1916882 B1 20150429 (EN)**

Application

**EP 06781598 A 20060725**

Priority

- JP 2006314686 W 20060725
- JP 2005236379 A 20050817

Abstract (en)

[origin: EP1916882A1] It is the object of the present invention to provide a high-voltage discharge lamp lighting system constituted in such a manner that a starting pulse voltage is fed back to make it invariable, whereby, even if the output wiring length is increased to increase the output capacity, the starting pulse voltage can be maintained within a prescribed value range. A high-voltage discharge lamp lighting system comprising a high-voltage discharge lamp 8, a starting pulse generation circuit 7 which feeds a starting high-voltage to said high-voltage discharge lamp 8, and a control circuit 9 for controlling said starting pulse generation circuit 7, characterized in that said starting pulse generation circuit 7 comprises a transformer T1 for boosting the pulse voltage generated by the ON/OFF operation of a FET, a feedback voltage detection winding N3 provided to said transformer T1, a voltage division circuit 11 for dividing the voltage produced across a feedback voltage detection winding N3, and a pulse detection circuit 12 for detecting the starting pulse voltage component from the output delivered from said voltage division circuit 11 and feeding back the thus detected starting pulse voltage component to said control circuit 9, and said control circuit 9 keeps at a predetermined value the voltage which has been boosted by said transformer T1.

IPC 8 full level

**H05B 41/18** (2006.01); **H05B 41/04** (2006.01); **H05B 41/24** (2006.01); **H05B 41/282** (2006.01)

CPC (source: EP KR)

**H05B 41/042** (2013.01 - EP); **H05B 41/18** (2013.01 - KR); **H05B 41/24** (2013.01 - KR); **H05B 41/2821** (2013.01 - EP); **H05B 41/30** (2013.01 - KR)

Cited by

EP2247168A4; US2011037406A1; US8228006B2; US8232746B2

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1916882 A1 20080430**; **EP 1916882 A4 20140507**; **EP 1916882 B1 20150429**; AU 2006280899 A1 20070222; AU 2006280899 B2 20110407; CN 101243729 A 20080813; CN 101243729 B 20110810; JP 2007052977 A 20070301; JP 4759105 B2 20110831; KR 101226179 B1 20130124; KR 20080036150 A 20080424; WO 2007020776 A1 20070222; WO 2007020776 A9 20070510

DOCDB simple family (application)

**EP 06781598 A 20060725**; AU 2006280899 A 20060725; CN 200680029942 A 20060725; JP 2005236379 A 20050817; JP 2006314686 W 20060725; KR 20087006305 A 20060725