

Title (en)
High pressure discharge lamp lighting device and image display device

Title (de)
Beleuchtungsanordnung mit Hochdruckentladungslampe und Bildanzeigevorrichtung

Title (fr)
Dispositif d'éclairage d'une lampe de décharge haute pression et dispositif d'affichage d'images

Publication
EP 2180767 A3 20141217 (EN)

Application
EP 09013249 A 20091020

Priority
JP 2008271387 A 20081021

Abstract (en)
[origin: EP2180767A2] [Object] To provide a high pressure discharge lamp lighting device which can reduce flickering of a high-pressure discharge lamp with a relatively simple control. [Means for Settlement] Upon start of lighting of a high-pressure discharge lamp, after the high-pressure discharge lamp reaches a substantially stable state or reaches a predetermined lamp voltage, the high-pressure discharge lamp is lighted in at least three lighting modes with a predetermined average power put into the high-pressure discharge lamp, and in the lighting modes, a period of a positive polarity is nearly equal to a period of a negative polarity in a first mode, a period of a positive polarity is longer than a period of a negative polarity in a second mode, and a period of a positive polarity is shorter than a period of a negative polarity in a third mode. Lighting frequencies in the second mode and the third mode are equal to or less than a lighting frequency in the first mode, each of periods t1, t2, t3 in the modes is at least one cycle, at least one first mode, and at least one second mode and at least one third mode are collectively defined as one set and the one set is repeated.

IPC 8 full level
H05B 41/285 (2006.01)

CPC (source: EP)
H05B 41/38 (2013.01)

Citation (search report)
• [I] US 2008246410 A1 20081009 - KIKUCHI SEIJI [JP]
• [A] US 2005264237 A1 20051201 - ISHIZUKA AKIO [JP]
• [A] JP 2006107890 A 20060420 - HARISON TOSHIBA LIGHTING CORP

Cited by
EP2654384A4; EP3562274A1; EP3062588A1; CN106937468A; US9602791B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2180767 A2 20100428; EP 2180767 A3 20141217; EP 2180767 B1 20170809; CN 101730354 A 20100609; CN 101730354 B 20130710;
JP 2010123567 A 20100603

DOCDB simple family (application)
EP 09013249 A 20091020; CN 200910205391 A 20091021; JP 2009185077 A 20090807