

Title (en)  
Ballast with dimming device

Title (de)  
Vorschaltgerät mit einer Dimmvorrichtung

Title (fr)  
Ballast avec dispositif de gradation

Publication  
**EP 1708549 B1 20080507 (DE)**

Application  
**EP 06004877 A 20060309**

Priority  
DE 102005013308 A 20050322

Abstract (en)  
[origin: EP1708549A2] The ballast has a dimming device to operate a low pressure discharge lamp by lamp current pulses spaced apart from one another. The device controls the brightness of the lamp in a higher brightness range by adjusting the amplitude of the lamp current generated by an inverter. The device controls brightness in a lower brightness range by adjusting pulse-duty factors between pulse duration and interpulse intervals of the current. Independent claims are also included for the following: (1) a low pressure discharge lamp comprising an electronic ballast (2) a method for controlling brightness of a low pressure discharge lamp.

IPC 8 full level  
**H05B 41/392** (2006.01)

CPC (source: EP US)  
**H05B 41/3921** (2013.01 - EP US); **Y10S 315/04** (2013.01 - EP US)

Cited by  
RU2482639C2; US8487540B2; WO2009077951A1

Designated contracting state (EPC)  
DE FR GB HU IT

DOCDB simple family (publication)  
**EP 1708549 A2 20061004; EP 1708549 A3 20070425; EP 1708549 B1 20080507**; CN 1849031 A 20061018; CN 1849031 B 20101208; DE 102005013308 A1 20060928; DE 502006000720 D1 20080619; US 2006214601 A1 20060928; US 7330001 B2 20080212

DOCDB simple family (application)  
**EP 06004877 A 20060309**; CN 200610082055 A 20060322; DE 102005013308 A 20050322; DE 502006000720 T 20060309; US 37641306 A 20060315