

Title (en)  
Electronic ballast

Title (de)  
Elektronisches Vorschaltgerät

Title (fr)  
Ballast électronique

Publication  
**EP 1605734 A1 20051214 (EN)**

Application  
**EP 05017725 A 20020624**

Priority  
• EP 02746706 A 20020624  
• US 88784801 A 20010622  
• US 603601 A 20011205

Abstract (en)  
An electronic ballast for driving a gas discharge lamp includes a rectifier, a valley-fill circuit, an inverter having first and second series-connected controllably conductive device having complementary duty cycles, a control circuit for controlling the controllably conductive device, and an independent cat ear power supply to provide power to the ballast control circuits. The result is a ballast having substantially improved THD, and current crest factor. In a preferred embodiment, the valley-fill circuit includes an energy storage device that stores energy in response to a controllably conductive device. In an especially preferred embodiment, the controllably conductive device of the valley-fill circuit is also one of the controllably conductive devices of the inverter.

IPC 1-7  
**H05B 41/28**

IPC 8 full level  
**H05B 41/282** (2006.01); **H02M 7/12** (2006.01); **H05B 41/28** (2006.01)

CPC (source: EP)  
**H05B 41/28** (2013.01)

Citation (search report)  
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Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 03001855 A1 20030103; WO 03001855 A8 20040506**; AT E448670 T1 20091115; AT E525895 T1 20111015; AU 2002316408 B2 20070906; DE 60234339 D1 20091224; EP 1605734 A1 20051214; EP 1605734 B1 20110921; ES 2336082 T3 20100408; IL 159465 A0 20040601; JP 2004533200 A 20041028; JP 4031429 B2 20080109

DOCDB simple family (application)  
**US 0220281 W 20020624**; AT 02746706 T 20020624; AT 05017725 T 20020624; AU 2002316408 A 20020624; DE 60234339 T 20020624; EP 05017725 A 20020624; ES 02746706 T 20020624; IL 15946502 A 20020624; JP 2003508110 A 20020624