

Title (en)

Electronic ballast

Title (de)

Elektronisches Vorschaltgerät

Title (fr)

Ballast électronique

Publication

**EP 1605734 B1 20110921 (EN)**

Application

**EP 05017725 A 20020624**

Priority

- EP 02746706 A 20020624
- US 88784801 A 20010622
- US 603601 A 20011205

Abstract (en)

[origin: WO03001855A1] 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 8 full level

**H05B 41/28** (2006.01); **H05B 41/282** (2006.01); **H02M 7/12** (2006.01)

CPC (source: EP)

**H05B 41/28** (2013.01)

Citation (examination)

- US 5517403 A 19960514 - MAEHARA MINORU [JP]
- US 5764496 A 19980609 - SATO KATSUMI [JP], et al

Cited by

NL1037553C2; NL2003677C2; NL2003011C2; WO2010143944A1

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DOCDB simple family (publication)

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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