

Title (en)

Dimming circuit for discharging lamp capable of turning off under a low power condition

Title (de)

Dimmkreislauf für Entladelampe mit Ausschaltfähigkeit bei niedriger Stromversorgung

Title (fr)

Circuit de gradation pour une lampe de décharge capable de se désactiver dans une condition de basse consommation

Publication

**EP 2175700 A1 20100414 (EN)**

Application

**EP 08017724 A 20081009**

Priority

EP 08017724 A 20081009

Abstract (en)

A dimming circuit (10) includes a resonant unit (11), a rectification unit (21), a half-bridge output unit (31), a first switch device (DD1) and a second switch device (DD2), and a selection unit (41). The rectification unit (21) is connected to the resonant unit (11). The half-bridge output unit (31) includes a first electric-controlled switch (Q1) and a second electric-controlled switch (Q2) in series. The first and second switch devices are connected to the second electric-controlled switch. The selection unit (41) may turn on the first switch device (DD1) and the second electric-controlled switch (Q2) when a potential is rising that turns on the discharging lamp (99) and turn off the second switch device (DD2) and keep turning on the second electric-controlled switch (Q2) when the discharging lamp (99) is lighting. The selection unit (41) further turns on the second switch device (DD2) to turn off the second electric-controlled switch (Q2) for turning off the discharging lamp (99) in a low power condition.

IPC 8 full level

**H05B 41/285** (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP)

**H05B 41/2853** (2013.01); **H05B 41/3924** (2013.01)

Citation (search report)

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- [A] US 6169374 B1 20010102 - CHANG CHIN [US]
- [Y] WO 2006120629 A2 20061116 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [X] WO 2004110110 A1 20041216 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
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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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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