

Title (en)

POWER DEVICE FOR ILLUMINATED LIGHT BOX

Title (de)

SPEISESCHALTUNG EINES LEUCHTKASTENS

Title (fr)

DISPOSITIF D'ALIMENTATION POUR BOITE A LUMIERE

Publication

**EP 1040731 B1 20011017 (FR)**

Application

**EP 98959995 A 19981215**

Priority

- FR 9802739 W 19981215
- FR 9715949 A 19971216

Abstract (en)

[origin: FR2772525A1] The invention concerns powering devices for illuminated light boxes (102) for backlighting liquid crystal display screens, which consist in using a regulating boost DC/DC converter (204), directly powered by the 28 volt system for directly delivering the stabilised 50 volt direct current required for powering the illuminated light box. Said converter comprises an output diode (208) protecting the device. The power reserve is obtained by a capacitor (209) directly powered by the 50 volt current. A second converter (111) with galvanic insulation enables to obtain the power voltage allowance for powering the display screen lighted by the illuminated light box. The connection between these electronic control cards and the screen is produced by a galvanic insulation device (210). The invention enables to increase the powering device performance while reducing its weight, volume and price.

IPC 1-7

**H05B 41/295**

IPC 8 full level

**H05B 41/285** (2006.01)

CPC (source: EP US)

**H05B 41/2853** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB

DOCDB simple family (publication)

**FR 2772525 A1 19990618; FR 2772525 B1 20000317;** DE 69802114 D1 20011122; DE 69802114 T2 20020606; EP 1040731 A1 20001004; EP 1040731 B1 20011017; ES 2163305 T3 20020116; US 6288912 B1 20010911; WO 9931940 A1 19990624

DOCDB simple family (application)

**FR 9715949 A 19971216;** DE 69802114 T 19981215; EP 98959995 A 19981215; ES 98959995 T 19981215; FR 9802739 W 19981215; US 58150100 A 20000616