Title (en)

Process and device for dimming a fluorescent lamp of an LCD backlight.

Title (de)

Verfahren und Vorrichtung zum Dimmen einer Leuchtstofflampe in einer LCD-Anzeigen-Rückbeleuchtung.

Title (fr)

Procédé et dispositif de gradation de lumière pour lampe fluorescente d'éclairage arrière d'écran à cristaux liquides.

Publication

EP 0406116 B1 19940126 (FR)

Application

EP 90401866 A 19900628

Priority

FR 8908807 A 19890630

Abstract (en)

[origin: EP0406116A1] Device for dimming light, in a ratio which can vary from 1 to 1000, for a fluorescent lamp (34) used in a liquid-crystal display backlighting facility. The device comprises a generator (1-13, 15-20) of square-wave signals formed of periodic pulses of adjustable width (potentiometer 1); these square waves are synchronised by the image synchronising signal (14) for the liquid crystal display. An a.c. voltage generator powers the lamp only during the pulses of the square-wave signals. The drop in output from the lamp (34) for square waves of very short duration enables the desired dimming ratio to be achieved without any image flicker effect. <IMAGE>

IPC 1-7

H05B 41/392; G02F 1/133; G09F 9/35; G09G 3/18; G09G 3/36

IPC 8 full level

G02F 1/133 (2006.01); **G09G 3/18** (2006.01); **G09G 3/34** (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP US)

G09G 3/3406 (2013.01 - EP US); **H05B 41/3927** (2013.01 - EP US); G09G 2320/0626 (2013.01 - EP US); G09G 2320/064 (2013.01 - EP US); Y10S 315/04 (2013.01 - EP US)

Cited by

DE19920917A1; DE19511810A1; EP0677201A4; EP1014332A3; EP0685831A1; US5844540A; EP0498497A3; EP0804052A3; FR2806247A1; DE4437204A1; US6278244B1; US6429839B1; WO9912401A1; WO0038481A1

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DOCDB simple family (application)

EP 90401866 A 19900628; CA 2019628 A 19900622; DE 69006272 T 19900628; FR 8908807 A 19890630; HK 83596 A 19960509; JP 17035790 A 19900629; US 54176690 A 19900621