

Title (en)

Systems for controlling brightness of displayed images

Title (de)

Systeme zur Steuerung der Helligkeit angezeigter Bilder

Title (fr)

Systèmes pour contrôler la luminosité d'images affichées

Publication

EP 1798716 A1 20070620 (EN)

Application

EP 05112302 A 20051216

Priority

EP 05112302 A 20051216

Abstract (en)

Systems for controlling brightness of displayed images of a display panel are provided. A representative system incorporates a control unit that is operative to adjust brightness of a corresponding display panel based upon at least one of: detected brightness of ambient light and brightness of light emitting elements of the display panel. The system comprises a control unit (324) for sampling a reference voltage (414) during a first period and storing it on a capacitor (362). During a second period a reference signal (Sp), e.g. a triangular waveform, is applied by the control unit to the capacitor and, after a period of time dependent on the sampled voltage, causes the output of an inverter circuit (34) to switch states (STV). The duty ratio of the signal output by the inverter is then used to control the brightness of a panel comprising LEDs as pixels or string lamps, or the backlight of a liquid crystal display.

IPC 8 full level

G09G 3/34 (2006.01); **G09G 3/32** (2006.01)

CPC (source: EP US)

G09G 3/3225 (2013.01 - EP US); **G09G 3/3406** (2013.01 - EP); **H05B 45/10** (2020.01 - EP); **H05B 45/22** (2020.01 - EP); **G09G 3/2014** (2013.01 - EP); **G09G 2300/0809** (2013.01 - EP); **G09G 2300/0866** (2013.01 - EP); **G09G 2320/043** (2013.01 - EP); **G09G 2320/0626** (2013.01 - EP); **G09G 2360/144** (2013.01 - EP); **G09G 2360/145** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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