Title (en)

LUMINANCE SMOOTHENING SYSTEM AND LUMINANCE CONTROLLER THEREOF

Title (de)

LUMINANZAUSGLEICHSSYSTEM UND LUMINANZSTEUERGERÄT DAFÜR

Title (fr)

SYSTÈME DE LISSAGE DE LUMINANCE ET ORGANE DE COMMANDE DE LUMINANCE CORRESPONDANT

Publication

EP 3772872 A1 20210210 (EN)

Application

EP 20189838 A 20200806

Priority

CN 201910735924 A 20190809

Abstract (en)

A luminance smoothening system includes an illuminating unit, an ambient luminance sensor and a luminance controller. The ambient luminance sensor detects an analog ambient luminance. The luminance controller includes an A/D converter and an adaptive luminance adjusting module. The A/D converter is electrically coupled to the ambient luminance sensor. The A/D converter receives the analog ambient luminance signal. The A/D converter transforms the analog ambient luminance signal to a digital ambient luminance signal. The adaptive luminance adjusting module is electrically coupled to the illuminating unit. The adaptive luminance adjusting module generates an output luminance control signal at a current stage based on a first adjusted ratio of the digital ambient luminance signal at the current stage and a second adjusted ratio of the output luminance control signal at a previous stage. The adaptive luminance adjusting module controls the illuminating unit using the output luminance control signal at the current stage.

IPC 8 full level

H05B 44/00 (2022.01); **H05B 45/12** (2020.01); **H05B 47/11** (2020.01)

CPC (source: EP)

H05B 45/12 (2020.01); **H05B 47/11** (2020.01)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3772872 A1 20210210; **EP 3772872 B1 20220629**; CN 110602818 A 20191220; CN 110602818 B 20220107

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