

Title (en)

ELECTRONIC DEVICE COMPRISING DISPLAY, AND OPERATION METHOD THEREFOR

Title (de)

ELEKTRONISCHE VORRICHTUNG MIT ANZEIGE UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

DISPOSITIF ÉLECTRONIQUE COMPRENANT UN ÉCRAN ET PROCÉDÉ DE FONCTIONNEMENT ASSOCIÉ

Publication

**EP 4310824 A1 20240124 (EN)**

Application

**EP 22791953 A 20220413**

Priority

- KR 20210053216 A 20210423
- KR 2022005366 W 20220413

Abstract (en)

An electronic device comprises: a sub-pixel including a first circuit block, a second circuit block, and a light-emitting element; a display panel; a display driving circuit; and a processor, wherein the display driving circuit can store gradation data in a first gate terminal of a first output transistor in the first circuit block, input, into the first gate terminal, a control signal of which the potential varies with time, allow the voltage of a second gate terminal of a second output transistor in the second circuit block to vary in response to the input of the control signal, control a light-emitting time by adjusting an on-state time of the second output transistor, and use a second initialization transistor connected to the second gate terminal to apply an initialization voltage to the second gate terminal two or more times for one frame, and thus perform initialization two or more times.

IPC 8 full level

**G09G 3/32** (2016.01)

CPC (source: EP KR)

**G09G 3/2014** (2013.01 - EP); **G09G 3/2081** (2013.01 - EP); **G09G 3/32** (2013.01 - EP KR); **G09G 3/3233** (2013.01 - EP); **G09G 2300/0819** (2013.01 - EP); **G09G 2300/0852** (2013.01 - EP); **G09G 2300/0861** (2013.01 - EP); **G09G 2310/0237** (2013.01 - KR); **G09G 2310/0251** (2013.01 - EP); **G09G 2310/0259** (2013.01 - EP); **G09G 2310/066** (2013.01 - EP); **G09G 2320/0233** (2013.01 - EP); **G09G 2320/0242** (2013.01 - EP KR); **G09G 2320/0257** (2013.01 - EP); **G09G 2320/0295** (2013.01 - EP); **G09G 2320/0633** (2013.01 - KR); **G09G 2340/0435** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4310824 A1 20240124**; **EP 4310824 A4 20240626**; KR 20220146220 A 20221101; WO 2022225253 A1 20221027

DOCDB simple family (application)

**EP 22791953 A 20220413**; KR 20210053216 A 20210423; KR 2022005366 W 20220413