

Title (en)  
ELECTRONIC DEVICE CAPABLE OF REDUCING COLOR SHIFT OR INCREASING LUMINOUS EFFICACY

Title (de)  
ELEKTRONISCHE VORRICHTUNG ZUR REDUZIERUNG DER FARBVERSCHIEBUNG ODER ZUR ERHÖHUNG DER LICHTAUSBEUTE

Title (fr)  
DISPOSITIF ÉLECTRONIQUE CAPABLE DE RÉDUIRE LE DÉCALAGE DE COULEUR OU D'AUGMENTER L'EFFICACITÉ LUMINEUSE

Publication  
**EP 4210039 A1 20230712 (EN)**

Application  
**EP 23158115 A 20190328**

Priority

- US 201862660206 P 20180419
- CN 201811126487 A 20180926
- EP 19165839 A 20190328

Abstract (en)  
An electronic device (20) includes a first electronic unit (200(1,1)) and a second electronic unit (200(2,1)). The first electronic unit (200(1,1)) includes a first light emitting diode (LED) (210) and a first driving unit (220). The second electronic unit (200(2,1)) includes a second LED (210) and a second driving unit (220). The first driving unit (220) receives a first data voltage to drive the first LED (210) accordingly in a driving period (TSA) in a first frame period (TF1). The second driving unit (220) receives a second data voltage to drive the second LED accordingly in a driving period (TSB) in a second frame period (TF2). A starting time of the first driving unit (220) receiving the first data voltage is different from a starting time of the second driving unit (220) receiving the second data voltage. The driving period (TSA) and the driving period (TSB) starts simultaneously.

IPC 8 full level  
**G09G 3/3233** (2016.01)

CPC (source: CN EP KR)  
**G09G 3/2003** (2013.01 - KR); **G09G 3/32** (2013.01 - CN KR); **G09G 3/3225** (2013.01 - CN); **G09G 3/3233** (2013.01 - EP); **G09G 3/3266** (2013.01 - EP); **G09G 3/3674** (2013.01 - EP); **G09G 3/2014** (2013.01 - EP); **G09G 3/2022** (2013.01 - EP); **G09G 2300/0842** (2013.01 - EP); **G09G 2300/0861** (2013.01 - EP); **G09G 2310/0286** (2013.01 - EP); **G09G 2320/0242** (2013.01 - CN EP); **G09G 2320/04** (2013.01 - KR); **G09G 2320/0666** (2013.01 - KR); **G09G 2330/02** (2013.01 - KR)

Citation (search report)

- [X] US 2014333680 A1 20141113 - CHOI YANG-HWA [KR]
- [A] US 2008018632 A1 20080124 - CORDES CLAUS N [NL], et al

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

DOCDB simple family (publication)  
**EP 4210039 A1 20230712**; CN 110400538 A 20191101; CN 110400538 B 20210209; KR 102664522 B1 20240510; KR 20190122154 A 20191029

DOCDB simple family (application)  
**EP 23158115 A 20190328**; CN 201811126487 A 20180926; KR 20190042912 A 20190412