

Title (en)
LIGHT EMITTING DIODE DISPLAY PIXEL

Title (de)
PIXEL EINER LICHEMITTIERENDEN DIODENANZEIGE

Title (fr)
PIXEL D'AFFICHAGE A DIODE ELECTROLUMINESCENTE

Publication
EP 4315308 A1 20240207 (FR)

Application
EP 22719573 A 20220330

Priority
• FR 2103309 A 20210331
• EP 2022058460 W 20220330

Abstract (en)
[origin: WO2022207730A1] The present disclosure relates to a display pixel (12i,j) comprising at least one light-emitting diode (LED), a driver (40) for driving the LED and first, second, third, and fourth conductive pads (36). The driver is powered by a first supply voltage (Vdd) received between the first and second pads. The LED is powered by a first binary signal (Vcci, Veei), received between the third and second pads, and alternating between a second supply voltage (Vcc), strictly higher than the first voltage, and a third voltage, strictly lower than the first voltage. The driver (40) is configured to determine a digital signal (R, G, B) from the values of a second binary signal (Dataj) on the fourth pad, received during each of first pulses of the first binary signal at the third voltage, and to control the LED on the basis of the digital signal.

IPC 8 full level
G09G 3/32 (2016.01); **H05B 45/325** (2020.01)

CPC (source: EP KR US)
G09G 3/32 (2013.01 - EP KR US); **H05B 45/325** (2020.01 - EP KR); **G09G 2230/00** (2013.01 - KR); **G09G 2310/027** (2013.01 - US); **G09G 2310/065** (2013.01 - US); **G09G 2310/08** (2013.01 - US); **G09G 2330/021** (2013.01 - KR US); **G09G 2330/028** (2013.01 - US)

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)
WO 2022207730 A1 20221006; CN 117136400 A 20231128; EP 4315308 A1 20240207; FR 3121569 A1 20221007; FR 3121569 B1 20230317; JP 2024513859 A 20240327; KR 20230151112 A 20231031; TW 202244886 A 20221116; US 12039922 B2 20240716; US 2024087505 A1 20240314

DOCDB simple family (application)
EP 2022058460 W 20220330; CN 202280025625 A 20220330; EP 22719573 A 20220330; FR 2103309 A 20210331; JP 2023560744 A 20220330; KR 20237035580 A 20220330; TW 111112125 A 20220330; US 202218283785 A 20220330