

Title (en)

Organic light-emitting diode (Oled) pre-charge circuit for use in a large-screen display

Title (de)

Vorladeschaltkreis für organische Leuchtdioden zur Verwendung in einem Grossbildschirm

Title (fr)

Circuit de précharge de diodes organique luminescentes pour utilisation en tant que grand écran

Publication

EP 1471493 A1 20041027 (EN)

Application

EP 03076206 A 20030425

Priority

EP 03076206 A 20030425

Abstract (en)

A precharge-circuit (300) charges the organic light emitting diode (OLED) (112) strictly to a positive voltage level, before closing the active switch (118) comprising the metal oxide semiconductor field effect transistor (MOSFET). Independent claims are also included for the following: (1) an arrangement of an OLED array; (2) a common anode, passive matrix organic light emitting diode display; and (3) method for pre-charging an OLED.

IPC 1-7

G09G 3/32

IPC 8 full level

G09G 3/32 (2006.01); **G09G 3/20** (2006.01)

CPC (source: EP)

G09G 3/3216 (2013.01); **G09G 3/3283** (2013.01); **G09G 3/2014** (2013.01); **G09G 2300/026** (2013.01); **G09G 2310/0251** (2013.01); **G09G 2310/066** (2013.01)

Citation (search report)

- [XY] US 6486607 B1 20021126 - YEUAN JIAN-JONG [TW]
- [Y] US 6310589 B1 20011030 - NISHIGAKI EITARO [JP], et al
- [Y] US 6366116 B1 20020402 - JUANG DAR-CHANG [TW]
- [Y] EP 1274065 A2 20030108 - LG ELECTRONICS INC [KR]
- [Y] US 6473064 B1 20021029 - TSUCHIDA MASAMI [JP], et al

Citation (examination)

- US 6369786 B1 20020409 - SUZUKI YOSHIO [JP]
- WO 0154107 A1 20010726 - EMAGIN CORP [US]
- US 6177767 B1 20010123 - ASAI NOBUTOSHI [JP], et al

Cited by

DE102010018865A1; DE102010018865B4; DE102006032071A1; DE102006032071B4; EP3029661A1; US8779672B2; WO2021063884A1; TWI567952B; US8098028B2; US9524666B2; US9530347B2; US9703519B2

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