

Title (en)

Method of addressing a cholesteric liquid crystal display

Title (de)

Verfahren zur Ansteuerung einer cholesterischen Flüssigkristallanzeige

Title (fr)

Procédé d'adressage d'un affichage à cristaux liquides cholestériques

Publication

EP 2571015 A1 20130320 (EN)

Application

EP 12161891 A 20120328

Priority

- EP 11181297 A 20110914
- EP 12161891 A 20120328

Abstract (en)

Method of addressing a cholesteric liquid crystal display having a plurality of pixels arranged in rows and columns, wherein: addressing a specific one of said plurality of pixels comprises a plurality of addressing phases; during each of said plurality of addressing phases, a sequence RS, RNS of row voltage pulses and a sequence CON, COFF, CGRAY of column voltage pulses is applied; said sequence RS, RNS of row voltage pulses and sequence CON, COFF, CGRAY of column voltage pulses comprise three voltage levels of 0 volt, UL volt and UH volt; during a preparation phase as a first addressing phase of said plurality of addressing phases, a first sequence RS, RNS of row voltage pulses and a first sequence CON, COFF, CGRAY of column voltage pulses are applied; and UH is only comprised in said sequence RS, RNS of row voltage pulses and said sequence CON, COFF, CGRAY of column voltage pulses during said preparation phase, with $0 < UL = UH$.

IPC 8 full level

G09G 3/36 (2006.01)

CPC (source: EP)

G09G 3/3622 (2013.01); **G09G 3/3629** (2013.01); **G09G 3/2025** (2013.01); **G09G 2300/0486** (2013.01); **G09G 2310/0245** (2013.01); **G09G 2320/0204** (2013.01)

Citation (applicant)

- X. Y. HUANG; J. W. DOANE; D. K. YANG: "Dynamic Drive of Cholesteric Liquid Crystal Displays", J. SID, vol. 5/3, 1997, pages 129
- A. RYBALOCHKA; V. SOROKIN; S. VALYUKH: "Bistable Cholesteric Reflective Displays: Two-Level Dynamic Drive Schemes", J. SID, vol. 12/2, 2004, pages 165

Citation (search report)

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- [A] US 2003206147 A1 20031106 - MI XIANG-DONG [US], et al
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- [A] ANDRIY RYBALOCHKA AND VIKTOR SOROKIN ET AL: "P-176: New High-Performance Algorithm for 2+2 Dynamic Drive Scheme for Cholesteric LCDs", SID 2008, 2008 SID INTERNATIONAL SYMPOSIUM, SOCIETY FOR INFORMATION DISPLAY, LOS ANGELES, USA, vol. XXXIX, 18 May 2008 (2008-05-18), pages 1869 - 1872, XP007016822, ISSN: 0008-966X

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

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