

Title (en)

Chip-on-glass liquid crystal display and data transmission method for the same

Title (de)

Chip-on-Glass-Flüssigkristallanzeige und Datenübertragungsverfahren dafür

Title (fr)

Affichage à cristaux liquides avec puces sur verre et procédé de transmission de données correspondant

Publication

EP 1708166 A3 20090408 (EN)

Application

EP 06002941 A 20060214

Priority

CN 200510062825 A 20050331

Abstract (en)

[origin: EP1708166A2] A liquid crystal display (LCD) comprising a glass substrate, a plurality of serial-connected source drivers (212) and at least one gate driver (214), disposed on the glass substrate by chip-on-glass technology, a timing controller (225) for generating image data and a control signal, and at least one flexible printed circuit board (230,232). The flexible printed circuit board receives the image data and the control signal for transmitting to the corresponding source driver. Then the corresponding source driver transmits the image data and the control signal to the neighboring source drivers such that all the source drivers respectively get the image data and the control signal. The flexible printed circuit board is disposed such that delays and distortions of the image data and the control signal are acceptable to the source drivers e.g. by connecting to the centre source driver of the series-connected source drivers.

IPC 8 full level

G09G 3/36 (2006.01)

CPC (source: EP)

G09G 3/3666 (2013.01); **G09G 3/3688** (2013.01); **G09G 3/2096** (2013.01); **G09G 3/3677** (2013.01); **G09G 2300/0408** (2013.01); **G09G 2310/027** (2013.01); **G09G 2310/0281** (2013.01); **G09G 2310/04** (2013.01); **G09G 2330/021** (2013.01); **G09G 2370/045** (2013.01); **G09G 2370/08** (2013.01)

Citation (search report)

- [PX] EP 1594112 A2 20051109 - SAMSUNG ELECTRONICS CO LTD [KR]
- [X] US 6388651 B1 20020514 - KINOSHITA KOHEI [JP], et al
- [A] EP 1220018 A1 20020703 - SONY CORP [JP]
- [A] WO 03060862 A1 20030724 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 2003090614 A1 20030515 - KIM HYUNG-GUEL [KR], et al
- [A] US 5420482 A 19950530 - PHARES LOUIS A [CA]
- [A] US 5990802 A 19991123 - MASKENY DONALD DAVID [US]

Cited by

CN109215554A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1708166 A2 20061004; **EP 1708166 A3 20090408**; **EP 1708166 B1 20120620**; CN 100416349 C 20080903; CN 1841482 A 20061004

DOCDB simple family (application)

EP 06002941 A 20060214; CN 200510062825 A 20050331