

Title (en)
DISPLAY, ACTIVE MATRIX SUBSTRATE AND DRIVING METHOD

Title (de)
ANZEIGE, AKTIVMATRIXSUBSTRAT UND ANSTEUERVERFAHREN

Title (fr)
AFFICHAGE, SUBSTRAT A MATRICE ACTIVE ET PROCEDE D'EXCITATION

Publication
EP 1580719 A1 20050928 (EN)

Application
EP 03777188 A 20031203

Priority

- JP 0315456 W 20031203
- JP 2002355338 A 20021206

Abstract (en)
[origin: WO2004053825A1] A display comprises a plurality of pixels (2) arrayed like a matrix, and each of the pixels (2) comprises a voltage signal input terminal (E) which is supplied with a voltage signal, a drive control device (Tr), a capacitor (C1), a current signal input terminal which is supplied with a current signal, a first switch (Sw5b), a second switch (Sw5a), an output control switch (Sw2), and a display device (20). The drive control device (Tr) comprises a first terminal connected to a first power terminal (11), a control terminal, and a second terminal for outputting a current corresponding to the voltage between the terminals. The capacitor (C1) is connected between the voltage signal input terminal (E) and the control terminal. The first switch (Sw5b) is connected between the current signal input terminal and the control terminal. The second switch (Sw5a) is connected between the current signal input terminal and the second terminal. The input terminal of the output control switch (Sw2) is connected to the second terminal. The display device (20) is connected between a second power terminal and the output terminal of the output control switch (Sw2).

IPC 1-7
G09G 3/30; **G09G 3/20**

IPC 8 full level
G09G 3/30 (2006.01); **H01L 51/50** (2006.01); **G09F 9/30** (2006.01); **G09G 3/20** (2006.01); **G09G 3/32** (2006.01)

CPC (source: EP KR)
G09G 3/30 (2013.01 - KR); **G09G 3/3233** (2013.01 - EP); **G09G 2300/0417** (2013.01 - EP); **G09G 2300/0819** (2013.01 - EP); **G09G 2300/0842** (2013.01 - EP); **G09G 2300/0852** (2013.01 - EP); **G09G 2300/0861** (2013.01 - EP); **G09G 2310/0251** (2013.01 - EP); **G09G 2310/0254** (2013.01 - EP); **G09G 2310/06** (2013.01 - EP); **G09G 2320/0233** (2013.01 - EP); **G09G 2320/0238** (2013.01 - EP); **G09G 2320/043** (2013.01 - EP)

Cited by
EP2133859A4; US8525763B2; WO2008123089A1; US8094145B2; US8325176B2; US8907940B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1580719 A1 20050928; **EP 1580719 A4 20090218**; CN 1720566 A 20060111; JP 2004191388 A 20040708; JP 4131659 B2 20080813; KR 100637824 B1 20061024; KR 20050087816 A 20050831; TW 200417982 A 20040916; TW I235986 B 20050711; WO 2004053825 A1 20040624

DOCDB simple family (application)
EP 03777188 A 20031203; CN 200380105077 A 20031203; JP 0315456 W 20031203; JP 2002355338 A 20021206; KR 20057009853 A 20050601; TW 92134350 A 20031205