

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 March 2008 (06.03.2008)

PCT

(10) International Publication Number
WO 2008/026179 A3

(51) International Patent Classification:
G02B 26/02 (2006.01)

(21) International Application Number:
PCT/IB2007/053482

(22) International Filing Date: 29 August 2007 (29.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06119905.5 31 August 2006 (31.08.2006) EP

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FAIRLEY, Peter, D.**, [GB/GB]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL). **DEANE, Steve, C.** [GB/GB]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL). **GLASSE, Carl** [GB/GB]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL).

(74) Agents: **SCHOUTEN, Marcus, M.** et al.; High Tech Campus Building 44, NL-5656 AE Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

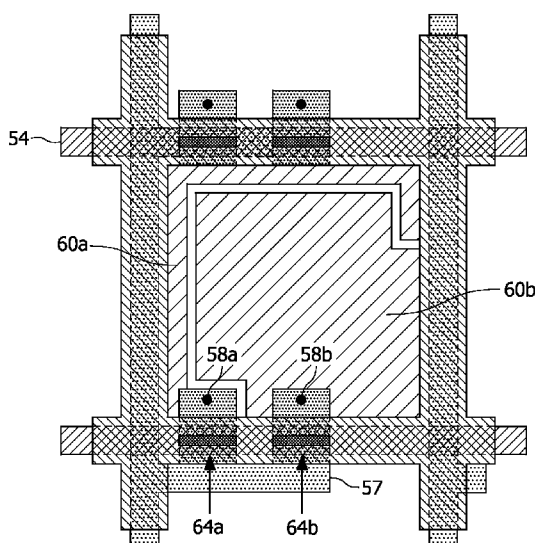
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

— with international search report

(88) Date of publication of the international search report:
8 May 2008

(54) Title: ELECTRONIC DEVICE BASED ON ELECTROWETTING EFFECT



(57) **Abstract:** An electronic device comprises an array of electro wetting cells, each cell comprising first and second liquids (14,18) which are immiscible in each other. An electrode arrangement (60a,60b) is used to control the position of the interface between the first and second liquids, and comprises a first electrode and a second electrode. Each cell comprises a first switching device (64a) for applying a cell drive voltage to the first electrode (60a), and a second switching device (64b) for simultaneously applying the same cell drive voltage to the second electrode (60b). The cell circuit can be produced without requiring any additional control lines to those required for a single electrode and associated switching device, but the use of two switching devices enables the ultimate signal applied to each electrode to be different as a result of different capacitive effects. This then enables control over the way the liquid interface moves in response to control voltages.



WO 2008/026179 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/053482

A. CLASSIFICATION OF SUBJECT MATTER
INV. G02B26/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/077124 A (KONINKL PHILIPS ELECTRONICS NV [NL]; IJZERMAN WILLEM L [NL]; VISSENBER) 10 September 2004 (2004-09-10) figures 3,4 page 8, line 24 - page 9, line 30 ----- -/--	1,2,6,8, 10, 14-17,19

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

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Date of the actual completion of the international search

12 February 2008

Date of mailing of the international search report

20/02/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Windecker, Robert

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2007/053482

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>FEENSTRA B J ET AL: "Electrowetting-Based Displays: Bringing Microfluidics Alive On-Screen" MICRO ELECTRO MECHANICAL SYSTEMS, 2006. MEMS 2006 ISTANBUL. 19TH IEEE INTERNATIONAL CONFERENCE ON ISTANBUL, TURKEY 22-26 JAN. 2006, PISCATAWAY, NJ, USA, IEEE, 22 January 2006 (2006-01-22), pages 48-53, XP010914522 ISBN: 0-7803-9475-5 page 49, right-hand column - page 50, right-hand column figures 2a-d, 3a-d</p>	1-19
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A	<p>----- EP 1 400 834 A (HEWLETT PACKARD DEVELOPMENT CO [US]) 24 March 2004 (2004-03-24) abstract figures</p> <p>-----</p>	

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Information on patent family members

International application No

PCT/IB2007/053482

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