

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 March 2003 (06.03.2003)

PCT

(10) International Publication Number
WO 03/019510 A3

(51) International Patent Classification⁷: G09G 3/32, 5/06

(21) International Application Number: PCT/IB02/03377

(22) International Filing Date: 22 August 2002 (22.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
01203178.7 23 August 2001 (23.08.2001) EP

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

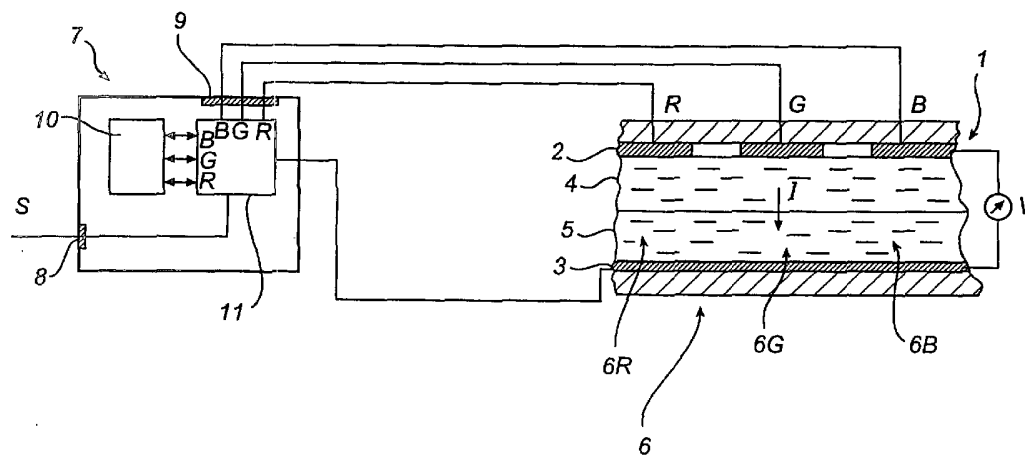
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(88) Date of publication of the international search report:
20 November 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DRIVE MEANS FOR COLOR CORRECTION IN AN ORGANIC ELECTROLUMINESCENT DEVICE



(57) Abstract: This invention relates to a method for color correction in an organic electroluminescent device (1), having at least one pixel (6), comprising an electroluminescent material layer (5), which is sandwiched between a first and a second electrode (2, 3), and constituting at least a first and a second light-emitting element (6R, 6G), wherein said method comprises the steps of: inputting a data signal (S) comprising information to be displayed by said light-emitting elements (6R, 6G), generating, in a correction means (10), a correction factor for each light-emitting element (6R, 6G), said correction factor being based on a relationship between a color point wavelength shift ($\Delta\lambda$) and a measured shift in one of a voltage across at least one of said light-emitting elements (6R, 6G) at a predetermined current (I_s) and a current through at least one of said light-emitting elements (6R, 6G), at a predetermined voltage (V_s), applying said correction factor on said data signal (S), and supplying the corrected data signal (S) to the light-emitting elements (6R, 6G). The invention also relates to a drive means implementing the above-described method.



WO 03/019510 A3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 02/03377A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G09G3/32 G09G5/06

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)
IPC 7 G09G

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, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 45525 A (LE GARS JACQUES ;DECAUX JEAN CLAUDE (FR)) 10 September 1999 (1999-09-10) cited in the application page 3, line 4 - line 8 page 6, line 1 - line 9; figure 3 ---	1,11
P,A	WO 02 15166 A (INTEL CORP ;SMITH RONALD (US)) 21 February 2002 (2002-02-21) page 8, line 20 -page 11, line 4 ---	1,11
E	EP 1 271 465 A (EASTMAN KODAK CO) 2 January 2003 (2003-01-02) page 3, line 45; figure 1 -----	1,11

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Date of the actual completion of the international search

25 August 2003

Date of mailing of the international search report

02/09/2003

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Information on patent family members

International Application No

PCT/IB 02/03377

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9945525	A	10-09-1999	FR	2775821 A1	10-09-1999
			AT	241844 T	15-06-2003
			AU	3257499 A	20-09-1999
			DE	69908309 D1	03-07-2003
			EP	1058923 A1	13-12-2000
			WO	9945525 A1	10-09-1999

WO 0215166	A	21-02-2002	US	6417863 B1	09-07-2002
			AU	8338201 A	25-02-2002
			EP	1312069 A1	21-05-2003
			WO	0215166 A1	21-02-2002

EP 1271465	A	02-01-2003	US	2003025688 A1	06-02-2003
			US	2003048264 A1	13-03-2003
			EP	1271465 A2	02-01-2003
			JP	2003150099 A	21-05-2003
