

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



G00002



(43) International Publication Date
18 July 2002 (18.07.2002)

PCT

(10) International Publication Number
WO 02/056097 A3

(51) International Patent Classification⁷: **G02F 1/1333**,
1/1347

(21) International Application Number: PCT/US02/00602

(22) International Filing Date: 9 January 2002 (09.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/759,212 11 January 2001 (11.01.2001) US

(71) Applicant (for all designated States except US): **SIPIX IMAGING, INC.** [US/US]; 1075 Montague Expressway, Milpitas, CA 95035 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIANG, Rong-Chang** [US/US]; 20142 Pacifica Drive, Cupertino, CA 95014 (US). **TSENG, Scott, C., J.** [—/US]; 1042 Reed Terrace #4, Sunnyvale, CA 94086 (US). **PHAN,**

Xuan [US/US]; 2509 Sunnystone Way, Raleigh, NC 27613 (US). **LI, Ying-Syi** [—/US]; 1489 Shaffer Drive, San Jose, CA 95132 (US). **LI, Weijin** [CN/US]; 2390 Lucretia Avenue #807, San Jose, CA 95122 (US).

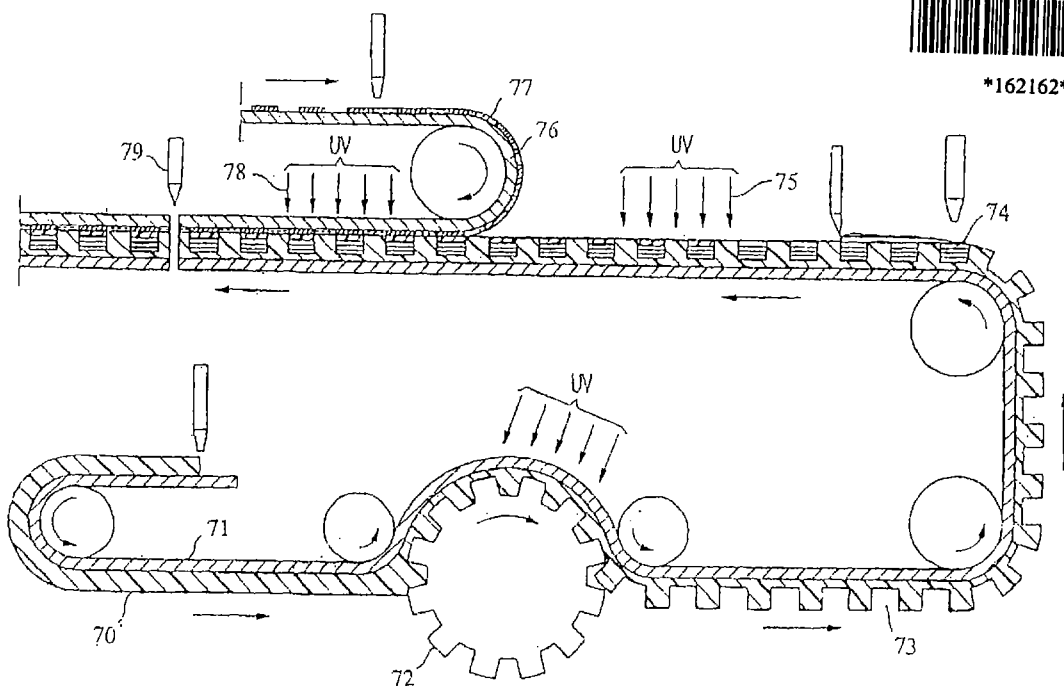
(74) Agents: **CHOW, Y., Ping** et al.; Heller Ehrman White & McAuliffe LLP, 275 Middlefield Road, Menlo Park, CA 94025-3506 (US).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), 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 (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, 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),

[Continued on next page]

(54) Title: AN IMPROVED TRANSMISSIVE OR REFLECTIVE LIQUID CRYSTAL DISPLAY AND NOVEL PROCESS FOR ITS MANUFACTURE



162162

WO 02/056097 A3

(57) Abstract: This invention relates to liquid crystal (LC) displays comprising cells of well-defined shape, size and aspect ratio which cells are filled with a liquid crystal composition preferably containing dichroic dye(s), and novel processes for their manufacture.



European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:

9 January 2003

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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.