(11) **EP 1 193 538 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 02.07.2003 Bulletin 2003/27

(51) Int CI.7: **G02F 1/1333**, G02F 1/1347

- (43) Date of publication A2: 03.04.2002 Bulletin 2002/14
- (21) Application number: 01122624.8
- (22) Date of filing: 27.09.2001
- (84) Designated Contracting States:

 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

 MC NL PT SE TR

 Designated Extension States:

 AL LT LV MK RO SI
- (30) Priority: 27.09.2000 JP 2000293622
- (71) Applicant: Kabushiki Kaisha Toshiba Tokyo 105-8001 (JP)
- (72) Inventors:
 - Nakai, Yutaka Minato-ku, Tokyo (JP)

- Kizaki, Yukio Minato-ku, Tokyo (JP)
- Enomoto, Shintaro Minato-ku, Tokyo (JP)
- Tanaka, Masao Minato-ku, Tokyo (JP)
- (74) Representative: HOFFMANN EITLE Patent- und Rechtsanwälte Arabellastrasse 4 81925 München (DE)
- (54) Liquid crystal display and method of manufacturing the same
- (57) There are provided a liquid crystal display having high light utilizing efficiency, simple structure and high aperture ratio and its manufacturing method. A pixel isolator surrounding respective pixel is formed on a substrate to thereby isolate the respective pixel. A liquid

crystal layer is formed by dripping liquid crystal microcapsule. Thereby, byisolating respective pixel, the pixel can be driven without being influenced by voltage applied to contiguous pixels. Further, since the respective pixel is partitioned, the liquid crystal layer and electrodes can be coated accurately.

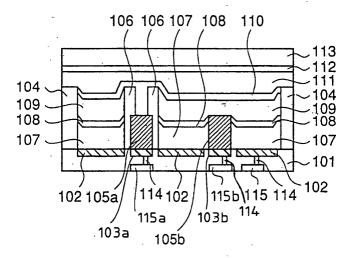


Fig. 1



EUROPEAN SEARCH REPORT

Application Number EP 01 12 2624

	DOCUMENTS CONSIDE Citation of document with ind			Relevant	CLASSIFICATION OF THE
Category	of relevant passage			to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X	US 6 067 134 A (NAKA 23 May 2000 (2000-05 * column 3, line 37 5,6,18 *	-23)	-	1-18	G02F1/1333 G02F1/1347
A	PATENT ABSTRACTS OF vol. 1997, no. 03, 31 March 1997 (1997- & JP 08 313939 A (TO 29 November 1996 (19 * abstract *	03-31) SHIBA CORP)	,	1,2,11, 15,17	
					TECHNICAL FIELDS SEARCHED (Int.CI.7) G02 F
	The present search report has be	·			
	Place of search		oletion of the search		Examiner
	THE HAGUE	7 May	2003	Gil	1, R
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document			T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filling date D: document cited in the application L: document oited for other reasons &: member of the same patent family, corresponding document		

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 12 2624

07-05-2003

	Patent documer cited in search rep		Publication date	Patent family member(s)		Publication date
US	6067134	Α	23-05-2000	JP JP	3361029 B2 10260427 A	07-01-200 29-09-199
JР	08313939		29-11-1996	KR US	200258 B1 5790215 A	15-06-199 04-08-199
			·			
					atent Office, No. 12/82	