Att / Docket No.:

237287US2X/cp



FOR: 1 PTO-1595

102445181

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Director of the United States Patent and Trademark Office. Please record the attached original documents or copy theseof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Hiroshi KOYAMA, Tetsuyuki KURATA, Tetsuya SATAKE, and 1) Advanced Display Inc. Name: Takahiro NISHIOKA 2) Mitsubishi Denki Kabushiki Kaisha Address: 1) 997, Miyoshi, Nishigoshi-machi, Kikuchi-gun, Kumamoto 861-1198 Jap 2) 2-3, Marunouchi 2-chome, Chiyoda-Ku7 Additional name(s) of conveying party(ies) attached? \(\simega\) Yes \(\simega\) No Tokyo, Japan 3. Nature of Conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: April 16, 18, 18, and 18, 2003 Additional name(s) and address(es) attached? 

Yes No 4. Application number(s) or patent number(s): April 16, 18, 18, and 18, 2003 If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? 

Yes No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 cor cerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Enclosed ☐ Authorized to be charged to deposit account 8. Deposit account number: 15-0030 Tel (703) 413-3000 (Attach duplicate copy of this page if paying by deposit account) Fax (703) 413-2220 DO NOT USE THIS SPACE 9. Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Marvin J. Spivak Signature Name of Person Signing C. Irvin McClelland Registration Number 21,124 Registration Number: 24,913 Total number of pages including this cover sheet: 3 05/1: 03-FFANAEIA-00000042-10427954-Do not detach this portion 40.00 OF FC:8:21 Mail documents to be recorded with required cover sheet information to: Director of the United States Patent and Trademark Office Mail Stop Assignment Recordation Services Alexandria, Virginia. 22313

> PATENT REEL: 014038 FRAME: 0184

INS RTNAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORS:

INS RTTITLE OF EVENTION

INS RT DATE IN-VER FORS SIGNED DES LARATION:

INS RTNAME AN: ADDRESS OF CON PANY OR CIT : ER ASSIGNEE

WHEREAS, I (WE)	Hitoshi KOYAMA		
	c/o Advanced Display Inc.		
	997, Miyoshi, Nishigoshi-machi, Kikuchi-gun, Kumamoto 861-1198 Japan,		
	Tetsuyuki KURATA		
	c/o Mitsubishi Denki Kabushiki Kaisha		
2-3, Marunouchi 2-chome, Chiyoda-Ku, Tokyo, Japan, Tetsuya SATAKE			
2-3, Marunouchi 2-chome, Chiyoda-Ku, Tokyo, Japan, and			
	Takahiro NISHIOKA		
	c/o Mitsubishi Denki Kabushiki Kaisha		
	2-3, Marunouchi 2-chome, Chiyoda-Ku, Tokyo, Japan		
		, respectively,	
have invented certain no	ew and useful improvements in:		
Liquid crystal display o	levice		
for which an application	n for Letters Patent was executed on		
(Application No.	, filed	), and	
WHEREAS, Ad	vanced Display Inc. and Mitsubishi Denki Kabushiki Kaisha		
(hereinafter referred to	as "ASSIGNEE") having a place of business at: 997, Miyoshi, Nishigoshi-ma	chi,	
Kikuchi-gun, Kumam	oto 861-1198 Japan, and 2-3, Marunouchi 2-chome, Chiyoda-Ku, Tokyo, Japa	n	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

10/01

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	april 16, 2003	(Signature of Inventor)	Iditoshi Koyama Hitoshi KOYAMA
Date:	april 18, 2003	(Signature of Inventor)	Jotenyuhi Kwata Tetsuyuki KURATA
Date:	April 18, 2003	(Signature of Inventor)	Tetsuya Satake Tetsuyd SATAKE
Date:	April 18 (200)	(Signature of Inventor)	Teleghin NISHIOKA Takahiro NISHIOKA
Date:		(Signature of Inventor)	
Date:		(Signature of Inventor)	
Date:			
Data		(Signature of Inventor)	
Date:		(Signature of Inventor)	

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

ATTORNEYS AT LAW FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VIRGINIA 22202

10/01

RECORDED: 05/02/2003

PATENT REEL: 014038 FRAME: 0186