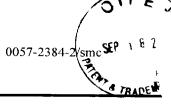
Atty Docket No.:

FORM PTO-1595 1-31-92



09-24-2001

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1. Name of conveying party(ies):			2. Name and address of receiving party(ies):								
Yoshinori NUMANO, Akira TSUMURA, Toshinori IWASA and Masaya MIZUNUMA			Name: MITSUBISHI DENKI KABUSHIKI KAISHA								
			2-3, Marunouchi 2-chome, Chiyoda-k Tokyo 100-8310, JAPAN								
Additional name(s) of conveying party(	ies) attached? □Yes ■I	No	100,570,571,711								
3. Nature of Conveyance:											
■ Assignment □ Merg □ Security Agreement □ Chan □ Other	ger ge of Name										
Execution Date: Novem	ber 20, 1998	Additional	Additional name(s) and address(es) attached? □Yes								
4. Application number(s) or patent number	ber(s):										
If this document is being filed together w	with a new application,	the execution da	ate of the application is:								
A. Patent Application No.(s)			B. Patent No.(s)								
09/210,884											
	Additional numbers	attached? □Yes	No								
5. Name and address of party to whom correspondence			6. Total applications and patents involved: 1								
concerning document should be mailed:			•								
22850			7. Total fee (37 CFR 3.41): \$40.00  ■ Enclosed  □ Authorized to be charged to deposit accounts.								
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Marvin I Spiyak		1. mage	Je. 18, 2001								
Marvin J. Spivak Name of Person Signing	- Duggi	Signature	Data								
Name of Person Signing	losenh										
Name of Person Signing Registration Number: 24,913	Jo <b>seph</b>	A. Scafetta,	Jr.								
Name of Person Signing Registration Number: 24,913		A. Scafetta,	Jr.								
Name of Person Signing Registration Number: 24,913	Joseph Pegistra er of pages inclining fr	A. Scafetta, tion No. 26,8 lls cover sheet.	Jr.								
Name of Person Signing Registration Number: 24,913 Total number	Joseph Registra er of pages including fr	A. Scafetta, tion No. 26,8 lls cover sheet.	Jr.								
Name of Person Signing Registration Number: 24,913  Total number  Mail documents to be recorded with requ	Joseph Registra er of pages including fr	A. Scafetta, tion No. 26,8 lls cover sheet.  h this portion mation to:	Jr. 1033								

PATENT REEL: 012178 FRAME: 0127

	WHEREAS, I (WE) Yoshinori Numano, Akira Tsumura, Toshinori Iwasa							
SERT NAMES	and Masaya Mizunuma all residing at c/o MITSUBISHI DENKI KABUSHIKI KAISHA							
D RESIDENCE DRESSES OF E INVENTORS:	2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN							
	, respectively,							
SERT TITLE	have invented certain new and useful improvements in: LIQUID CRYSTAL DISPLAYING							
	APPARATUS AND METHOD FOR MANUFACTURING ARRAY SUBSTRATE USED THEREFOR							
SERT DATE IN- INTORS SIGNED ECLARATION:	for which an application for Letters Patent was executed on November 20, 1998							
	09/210,884 December 15, 1998), and							
SERT NAME HD ADDRESS OF HMPANY OR "HER ASSIGNEE:	WHEREAS, MITSUBISHI DENKI KABUSHIKI KAISHA							
	(hereinafter referred to as "ASSIGNEE") having a place of business at:							
	2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN							
	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.

1/95

PATENT REEL: 012178 FRAME: 0128

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.

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:_	November 20, 1998	(Signature of Inventor)	Yoshuwu	Numario
Date:_	November 20, 1998	(Signature of Inventor)	akira	Zumura
Date:_	November 20, 1998	(Signature of Inventor)	Joshinori	Lwasa
Date:_	November 20, 1998	(Signature of Inventor)		1 Gamme
Date:_		(Signature of Inventor)		
Date:_		(Signature of Inventor)		
Date:_		(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

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