mRS	04-10-2000	NEC 00P012
FORM PTO-1595 1-31-92 3-30-00 RE		EET U.S. DEPARTMENT OF COMMERCE Patient and Trademark Office
Tab settings ↔ ↔ ▼ ▼	101312030	• • •
To the Honorable Commissioner of Patents	and Trademarks: Please reco	rd the attached original documents or copy thereof.
Mamoru OKAMOTO Hirofumi Shinichi NAKATA Hironori	WATANABE Name IHARA Name KIKKAWA Intern MATSUYAMA	and address of receiving party(ies):
3. Nature of conveyance:		
🖾 Assignment 🛛 🗅 Me	erger Street	Address: 7-1, Shiba 5-chome, Minato-ku
Security Agreement Ch Other Execution Date: March 27, 2000		JAPAN Tokyo State ZNPX nal name(s) & address(es) attached? 🖸 Yes 🛛 No
A. Patent Application No.(S)	new application, the execution	date of the application is: <u>March 27, 2000</u>
5. Name and address of party to whom correct concerning document should be mailed: Name:Norman P. Soloway	espondence 6. Total	number of applications and patents involved:
Internal Address:	7 Tota	fee (37 CFR 3.41): \$
	& E	nclosed
	A	uthorized to be charged to deposit account
Street Address: HAYES, SOLOWAY, HENNESSEY, GRO 175 Canal Street	SSMAN & HAGE 8. Depo	osit account number: 08-1391
City: <u>Manchester</u> State: <u>NH</u>	ZIP: <u>03101</u> (Attac	th duplicate copy of this page if paying by deposit account)
	DO NOT USE THIS SPACE	
9. Statement and signature. To the best of my knowledge and belief, th of the original document. <u>Norman P. Soloway</u> Name of Person Signing	ne foregoing information is tru Monup Signature	March 30, 2000 March 30, 2000 Date Total number of pages ECA THE DETVER sheet: 5
1		REEL: 010662 FRAME: 0858

ASSIGNMENT

FOREIGN - IN THE UNITED STATES OF AMERICA

I/we, MICHIAKI SAKAMOTO, MAMORU OKAMOTO, SHINICH	I NAKATA,
YUJI YAMAMOTO, TAKAHIKO WATANABE, HIROFUMI IHARA, HIF	RONORI KIKKAWA
and HIROAKI MATSUYAMA, all	
of Tokyo, Japan	
having invented certain inventions and improvements in	
A LIQUID-CRYSTAL DISPLAY	·
and having executed an application for Letters Patent of	the United
States of America describing the same and based thereon	on
March 27 , 2000, for good and valuable considerat	ion, the
receipt of which is hereby acknowledged, from <u>NEC Corpora</u>	ation,
a Japanese	_ corporation
having its principal place of business at	
having its principal place of business at	_ (hereinafter
having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan	_ (hereinafter r unto the
having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan called the Assignee), do hereby sell, assign and transfe	_ (hereinafter r unto the title, and
having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan called the Assignee), do hereby sell, assign and transfe Assignee, its successors, and assigns our entire rights,	_ (hereinafter r unto the title, and of America,
having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan called the Assignee), do hereby sell, assign and transfe Assignee, its successors, and assigns our entire rights, interest, in and to said invention in the United States	_ (hereinafter r unto the title, and of America, ntioned
having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan called the Assignee), do hereby sell, assign and transfe Assignee, its successors, and assigns our entire rights, interest, in and to said invention in the United States including all rights, title and interest in the above-me	_ (hereinafter r unto the title, and of America, ntioned plication or

And for the same consideration, I/we do hereby agree that I/we will upon request execute any instrument which the Assignee may desire to carry this Assignment into effect and perfect the title transferred hereby or prosecute the above-mentioned application.

And I/we do hereby authorize the Commissioner of Patents and Trademarks of the United States of America to issue Letters Patent on the said application to the Assignee.

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I

And I/we do hereby jointly and severally covenant for ourselves and for our legal representatives that I/we have granted no right or license to make, use, or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our rights, title, and interest in and to said inventions or any of them or any part thereof has not been otherwise encumbered by us, and that I/we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I/we have hereunto set our hands and seals on the day and year hereinafter noted.

Sole or First Inventor's signature Michi p Full name (typed or printed) <u>MICH</u>	
Witness: <u>Stash</u> Ukai Date: <u>March 27, 2000</u>	Witness: March 27, 2000
Second Inventor's signature <u>Mamoru</u> <u>Kamoto</u> Full name (typed or printed) <u>MAMO</u>	Date March 27, 2000 RU OKAMOTO
Witness: <u>Detashi Ukci</u> Date: <u>March 27, 2000</u>	Witness: March 27, 2000
Third Inventor's signature <u>Amichi Makata</u> Full name (typed or printed) <u>SHINI</u>	Date March 27, 2000
Witness: <u>Netoski Uka</u> Date: <u>March 27, 2000</u>	Witness: March 27, 2000

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Fourth Inventor's	35
signature yuji yam	amoto Date March 27, 2000
Full name (typed or printed) <u>YU</u>	JI YAMAMOTO
Witness: Ditashi Ukai	Witness: ALL tonut
Date:March 27, 2000	Date: March 27, 2000
Fifth Inventor's D Diportion	tanabe Date March 27, 2000
signature <u>Jahanykt</u> Wu	La Multe Date March 27, 2000
Full name (typed or printed) TA	KAHIKO WATANABE
· · · · · ·	
Witness: Stateshing Ukan	
Date: <u>March 27, 2000</u>	Date: March 27, 2000
Sixth Inventor's	(#)
signature Virofumi ilhura	Date March 27, 2000
Full name (typed or printed)HI	ROFUMI IHARA
Witness: Detoshi Ukai	Witness: Caro hurt
Date: <u>March 27, 2000</u>	Date: March 27, 2000
Seventh Inventor's	
signature <u>Aironon</u> Kikkawa	Date March 27, 2000
Full name (typed or printed) <u>HI</u>	RONORI KIKKAWA
1-4 0 1 10	
Witness: Ditachi Ukai	Witness: Mithen
Date: <u>March 27, 2000</u>	Date: <u>March 27, 2000</u>

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eighth inventor's signature <u>Hiroaki Ma</u>	Date March 27, 2000 HIROAKI MATSUYAMA
Full name (typed or printed) _	HIROAKI MATSUYAMA
Witness: <u>Sitoshi Ukai</u> Date: <u>March 27, 2000</u>	
nineth inventor's signature	Date
Witness: Date:	
tenth inventor's signature Full name (typed or printed)	Date
Witness:	Witness:
Date:	
eleventh inventor's signature Full name (typed or printed)	
Witness:	Witness-
Date:	_
·	

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RECORDED: 03/30/2000