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# TT/920886 IAP05Rec'd PCT 21 NOV 2007

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	103465346 ATENTS	SONLY
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11.21.07	To the Director of the U.S. Patent and Trademark Office: Please  1. Name of conveying party(ies):  Kiyohiro Kimura (09/28/2007), Makoto Aoki (10/03/2007), Jun Sasaki (10/01/2007), and Toru Abiko (10/02/2007)  Additional name(s) of conveying party(ies) attached?  Yes X No  3. Nature of conveyance/Execution Date(s):  Execution Date(s): in parentheses after inventor name  X Assignment Merger Change of Name  Security Agreement Joint Research Agreement  Government Interest Assignment  Executive Order 9424, Confirmatory License	2. Name and address of receiving party(ies)  Name: Sony Corporation  Internal Address:  Street Address:  1-7-1 Konan, Minato-ku Tokyo, 108-0075 JAPAN  City:  State:  Country: Zip:
	Other	Additional name(s) & address(es) Yes X No
	4. Application or patent number(s):  A. Patent Application No.(s)  This application  Additional numbers attached?	his document is being filed together with a new application.  B. Patent No.(s)  Yes X No
	Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
	Name: Randy J. Pritzker WOLF, GREENFIELD & SACKS, P.C. Internal Address: Street Address: Federal Reserve Plaza 600 Atlantic Avenue	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  Authorized to be charged by credit card  Authorized to be charged to deposit account  X Enclosed  None required (government interest not affecting title)
	City:         Boston           State:         MA         Zip:         02210-2206           Phone Number:         (617) 646-8000           Fax Number:         (617) 646-8646           Email Address:         rpritzker@wolfgreenfield.com	8. Payment Information  a. Credit Card Last 4 Numbers Expiration Date  b. Deposit Account Number Authorized User Name
	9. Signature:  Randy J. Pritzker - 35,986	Date Total number of pages including cover 3
11/26/2007 (	REY1 00000047 11920886Name of Person Signing	sheet, attachments, and documents:
04 FC:8021	40.00 DP	

. 2007 Dated: November

\$1459.70311US00 **1290017.1** 

IAP05Rec'd PCT 21 NOV 2007 \$1459.70311US0 \$20 8 86 Docket Number:

S07P0307US00 S1459.70311US00

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in LIQUID CRYSTAL DISPLAY APPARATUS

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 1-7-1 Konan, Minato-Ku, Tokyo, Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: International Application No.: PCT/JP2007/\_\_\_International Filing Date: 03/29/2007

This assignment executed on the dates indicated below.

Kiyoniro Kimura	
Name of first or sole inventor	Execution date of U.S. Patent Application
Miyagi, Japan	
Residence of first or sole inventor	
Signature of first or sole inventor	Saptenher. 28 2007 Date of this assignment
Signature of first or sole inventor	Date of this assignment

PATENT REEL: 020191 FRAME: 0446

Makoto AOKI	
Name of second inventor	Execution date of U.S. Patent Application
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Residence of second inventor	
Makoto Aoki	October. 3. 2007  Date of this assignment
Signature of second inventor	Date of this assignment
Jun SASAKI	
Name of third inventor	Execution date of U.S. Patent Application
Miyagi, Japan	
Residence of third inventor	
Jun Sasalei	October . 1. 2007
Signature of third inventor	Date of this assignment
Toru ABIKO	
Name of fourth inventor	Execution date of U.S. Patent Application
	Endeavior date of clear rate in practical
Miyagi, Japan Residence of fourth inventor	
Toru Abiko	October . Z . Z • • 7  Date of this assignment
Signature of fourth inventor	Date of this assignment
Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment

PATENT REEL: 020191 FRAME: 0447 PTO/SB/106 (5-00)

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P2006-090709	Japan	29/03/2006	
(Number)	(Country)	(Day/Month/Year Filed)	
(番号)	(四名)	(出顧日/月/年)	
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(第三以下の共同発明者についても同様に記載し、署名を

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this

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発明者の署名	日付	Inventor's signature Date
)		Kiyohipo Kimura September 29 200
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第二共同発明者がいる場合、その氏は	E	Full name of second joint inventor, if any
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		Japan
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joint Inventors.)

(Supply similar information and signature for third and subsequent

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<b>晃羽者氏名</b>		
		Inventor's signature Date
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sa en		
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		Japan
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