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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Name and address of receiving party(ies): Satoru KAWAMOTO, Yoshinori NUMANO Name: Mitsubishi Denki Kabushiki Kaisha and Ken NAKASIMA Address: 2-3 Marunouchi 2-chome, Chiyoda-ku. Additional name(s) of conveying party(ies) attached? Tokyo 100 JAPAN □ Yes ⋈ No Additional name(s) & address(es) attached? □ Yes ⊠ No 3. Nature of Conveyance: ■ Assignment □ Merger NOV 1 6 1999 □ Security Agreement □ Change of Name □ Other\_ Execution Date: June 30, 1997 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: N/A A. Patent Application No.(s) B. Patent No.(s) 08/919,319 Additional numbers attached? □ Yes ⋈ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: OBLON, SPIVAK, McCLELLAND, 7. Total fee (37 CFR 3.41):....\$ 40.00 MAIER & NEUSTADT, P.C. Attorneys at Law ⊠ Enclosed ☐ Authorized to be charged to deposit account Fourth Floor 1755 Jefferson Davis Highway 8. Deposit account number: 15-0030 Arlington, Virginia 22202 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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
Name of Person Signing
Registration No. 24,913 Registration Number 27,295 Total number of pages including cover sheet: 3 8 OMB No. 0651-0011 (exp. 4/94) Do not detach this portion Mail documents to be recorded with required cover sheet information to: 8 Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231 Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per processing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

**REEL: 010397 FRAME: 0353** 

|   | WHEREAS, I (WE) Satoru Kawamoto, Yoshinori Numano and  |
|---|--|
|   | Ken Nakasima, all residing at c/o Mitsubishi Denki Kabushiki   |
| SERT NAMES ID RESIDENCE DRESSES OF E INVENTORS:           | Kaisha, 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100 JAPAN   |
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|   | , respectively,  |
| SERT TITLE  | have invented certain new and useful improvements in: ACTIVE MATRIX LIQUID   |
|   | CRYSTAL DISPLAY DEVICE AND METHOD OF FABRICATING THE SAME  |
| SERT DATE IN-<br>INTORS SIGNED<br>ICLARATION:             | for which an application for Letters Patent was executed on June 30, 1997  |
|   | (Application No. 08/919, 319 , filed August 28, 1997 ), and  |
| SERT NAME<br>ND ADDRESS OF<br>OMPANY OR<br>THER 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 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.

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PATENT REEL: 010397 FRAME: 0354 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: June 30, 1997 | (Signature of Inventor)  |
|---------------------|--|
| Date: June 30, 1997 | (Signature of Inventor)  Joshuman Ilmnant  (Signature of Inventor) |
| Date: June 30, 1997 | (Signature of Inventor)  |
| Date:               | (Signature of Inventor)  |

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

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PATENT REEL: 010397 FRAME: 0355

**RECORDED: 11/16/1999**