|         | 1-31-92 <b>RECORD</b> .   | 06-1999  U.S. DEPARTMENT OF COMMERCE Patent and Trademark  |  |  |  |
|---------|---|--|--|--|--|
|         |   | 081641 nal documents or copy thereof.  |  |  |  |
| 5-33-59 | Name of conveying party(ies):     Hideo SATO, Yoshihiro MIKAMI, Hiroshi KAGEYAMA,     Tatsuya OHKUBO  | 2. Name and address of receiving party(ies): Name: Hitachi, Ltd.  Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku |  |  |  |
| 200 A   | Additional name(s) of conveying party(ies) attached? Yes No  3. Nature of conveyance:  Assignment Merger  | City: Tokyo:   |  |  |  |
| ,       | Security Agreement Change of Name Other Execution Date: June 1,1999   | Country: Japan   |  |  |  |
|         |   | Additional name(s) & address(es) attached? Yes X No  |  |  |  |
|         | 4. Application number(s) or patent number(s): 09/33  If this document is being filed together with a new application, some A. Patent Application No.(s)   | the execution date of the application is: June 1, 1999  B. Patent No.(s)   |  |  |  |
|         | Additional numbers attached?  Ves  No   |  |  |  |  |
|         | 5. Name and address of party to whom correspondence concerning document should be mailed:   | 6. Total number of applications and patents involved: 1  |  |  |  |
|         | Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP  | 7. Total fee (37 CFR 3.41)\$40.00  |  |  |  |
|         | Internal Address:   | Enclosed  Any deficiencies may be charged to deposit account  Authorized to be charged to deposit account                |  |  |  |
|         | Street Address: 1300 North Seventeenth Street   | 8. Deposit account number: 01-2135   |  |  |  |
|         | Suite 1800  City: Arlington State: VA Zip: 22209  | (Attach 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, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Melvin Kraus Name of Person Signing Attorney Registration No. 22,466 Total number of pages including cover sheet, attachments, and document: 2 |  |  |  |  |
|         | OMB No. 0651-0011 (exp. 4/94)   | 00000  |  |  |  |
|         |   | 96<br>94<br>11   |  |  |  |

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## **ASSIGNMENT**

|  | ereby sell and assign t   | to Hitachi, Ltd   | 1.   |   |
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|  |   |   | ku, Tokyo 101-801  |   |
| successors and a<br>nerica, in and to  | ssigns or other legal r   | representatives all my right  | s, title and interest, in and for  | the United States of  |
|  | QUID CRYSTAL<br>ION CIRCUIT   | L DISPLAY APPARA  | TUS HAVING LEVEL   |   |
|  | -   | executed k  | tors are named below) and desc<br>by us even date he   | rewith  |
| United States Le   | tters Patent which ma   | nay be granted therefor, and  | xxxxx filed xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx   | extensions thereof,   |
| itachi, L  | d.  |   | , its successors, assignment   | gns or other legal  |
|  | he full end of term for   | for which said Letters Pater  | t may be granted, as fully and   |   |
|  |   | or us if this assignment and execute any further docume   | sale had not been made;<br>hts or instruments which may  | be necessary, lawful.   |
| l proper in the p  | rosecution of the abo   | ove-named application or in   | the preparation and prosecutio   | n of any continuing,  |
| •  | •   | al, renewal, reviewed or reis<br>to secure the title thereto in   | sue applications or in any amo   | endment, extension,   |
| interretence proc  | codings, or otherwise   | to secure the the thereto h   | i said assignee,   |   |
| And I do h   | ereby authorize and re  | request the Commissioner of   | Patents to issue said Letters Pa   | itent to said   |
| Hitachi, 1   | .td.  |   |  |   |
|  |   | (Full Name  | 1  | Signature)  |
|  |   | •   | 100-6  |   |
| Date June  | 1, 1999 Inven   | ntor <u>Hideo Sato</u>  | Lideo S  | aro   |
| Residence Sa   | ame as Post (   | Office Address  | <u>Citizenship</u> Japa<br>e, Hitachi-shi, Ib  | n 216 0   |
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**RECORDED: 06/22/1999** 

PATENT REEL: 010060 FRAME: 0361