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Form PTO-1595 U.S. DEPARTMENT OF COMMERCE 1,02079002 (Rev. 03/01) U.S. Patent and Trademark Office OMB No. 0651-0027 (exp. 5/31/2002) To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. ዋ. Name of conveying party(ies): 2 Name and address of receiving party(ies) diDA, Haruhisa TAKEMOTO, Iwao Name: (1) Hitachi, Ltd. MATSUMOTO, Katsumi Name: (2) Hitachi Device Engineering Co., Ltd ADACHI, Shigeo Street Address: (1) 6, Kanda Surugadai, 4-chome, Chiyoda- ku, Tokyo, Japan Additional name(s) of conveying party(ies) attached? \square Yes \boxtimes No (2) 3681, Hayano, Mobara-shi, 3. Nature of conveyance: Chiba-ken, Japan ☐ Merger Assignment Assignment Security Agreement ☐ Change of Name Other ___ Additional name(s) & address(es) attached?

✓ Yes

No Execution Date: March 29, & April 1, 2002. 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: _ A. Patent Application No.(s) B. Patent Registration No.(s) 10/097,574 Filed March 15, 2002 Additional number(s) attached Tyes No Name and address of party to whom correspondence 6. Total number of applications and patents involved concerning document should be mailed: 7. Total fee (37 CFR 3.41)......\$40.00 Name: Antonelli, Terry, Stout & Kraus, LLP Internal Address: Authorized to be charged to deposit account 1300 North Seventeenth Street **Suite 1800** 8. Deposit account number: Arlington, VA 22209 USA 01-2135 City: State: Zip: (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. 04/29/2002 Melvin Kraus Reg. No. # 22,466 Date Name of Person Signing

> Total number of pages including cover sheet, attachments, and document: 2 Mail documents to be recorded with required cover sheet information to: Commissioner of Patent & Trademarks, Box Assignments

Washington, D.C. 20231

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PATENT REEL: 12849 FRAME: 0837

ASSIGNMENT

(譲渡証)

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to the below named inventor(s), citizens of Japan by HITACHI, LTD., and HITACHI DEVICE ENGINEERING CO., LTD., corporations organized under the laws of Japan,

located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 3681, Hayano, Mobara-shi, Chiba-ken, Japan, respectively,

receipt of which is hereby acknowledged, we, the below named inventor(s), do hereby sell and assign to said HITACHI, LTD., and HITACHI DEVICE ENGINEERING CO., LTD.,

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to LIQUID CRYSTAL DISPLAY DEVICE HAVING A LOW-VOLTAGE DRIVING CIRCUIT

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and HITACHI DEVICE ENGINEERING CO., LTD.,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made:

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and HITACHI DEVICE ENGINEERING CO., LTD.

Signed on the date(s) indicated aside signatures:

RECORDED: 04/29/2002

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
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PATENT REEL: 12849 FRAME: 0838