Atty Docket No.:

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FORM PTO-1595

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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): 2. Name and address of receiving party(ies): Yujiro HARA, Masakiko AKIYAMA, Yutaka ONOZUKA, KABUSHIKI KAISHA TOSHIBA Name: Tsuyoshi HIOKI, and Mitsuo NAKAJIMA Address: 1-1 Shibaura 1-chome, Minato-Ku, -9-02 Tokyo, Japan Additional name(s) of conveying party(ies) attached?

☐Yes ☒No 3. Nature of Conveyance: ☐ Security Agreement ☐ Change of Name ☐ Other Additional name(s) and address(es) attached?

☐Yes ☒No Execution Date: July 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: July 1, 2002 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐Yes ⋈No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 ☐ Authorized to be charged to deposit account 8. Deposit account number: 15-0030 (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. Marvin J. Spivak Name of Person Signing Registration Number: 24,913 Total number of pages including this cover sheet: Do not detach this portion Mail documents to be recorded with required cover sheet information to: **Commissioner of Patents and Trademarks Box Assignments** 00000064 10190663 Washington, D.C. 20231 07/12/2002 MABDI1 03 FG:581 40.00

> PATENT REEL: 013088 FRAME: 0988

ASSIGNMENT

In consideration of value received, I, having a mailing address at c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

ACTIVE MATRIX SUBSTRATE AND METHOD OF MANUFACTURING THE SAME

said application having been filed on and assigned Application No. ; sell and assign to KABUSHIKI KAISHA TOSHIBA a corporation of Japan, having a business address at 1-1 Shibaura 1-chome, Minato-Ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

 \times executed concurrently herewith;

executed separately herefrom;

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invension in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Palent and Trademark Office for recordation of this document.

Oblon, Spivak, McClelland, Maier & Neustadt. P.C., Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202

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ASSIGNMENT

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