FORM PTO-1595 1-31-92



03-10-2003

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

102384930

To the Honorable Commissioner of Patents and Trac-Lenou original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): 2.25.03 Kazumi SATO and Kiyoshi TOSHIMITSU Name: KABUSHIKI KAISHA TOSHIBA Address: 1-1 Shibaura 1-chome, Minato-Ku, Tokyo, Japan Additional name(s) of conveying party(ies) attached? ☐ Yes ■ No 3. Nature of Conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: February 3, 2003 Additional name(s) and address(es) attached?
Yes 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: February 3, 2003 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: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Enclosed ☐ Authorized to be charged to deposit account Tel. (703) 413-3000 8. Deposit account number: 15-0030 Fax. (703) 413-2220 (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 C. Irvin McClelland Registration Number: 24,913 Registration Number 21,124 Total number of pages including this cover sheet: 3 02/27/2003 HLE333 00000088 10372320 02 FC:8021 40.00 OP Do not detach this portion Mail documents to be recorded with required cover sheet information to:

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> **PATENT** REEL: 013815 FRAME: 0337

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:

RADIO COMMUNICATION APPARATUS AND METHOD

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. Patent and Trademark Office for recordation of this document.

Oblon, Spivak, McClelland, Maier & Neustadt, P.C., 1940 Duke Street, Alexandria, Virginia 22314

PATENT REEL: 013815 FRAME: 0338

ASSIGNMENT

Inventor: (Signature)	Date	Residence
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