Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) PAIENIS	3-28-2003 ARTMENT OF COMMERCE Patent and Trademark Office	J1025 U.S. PTO 10/389564
To the Honorable Commissioner of Patents and Trademarks: Pl 1. Name of conveying party(ies): Jun Hattori and Norifumi Matsui Additional name(s) of conveying party(ies) attached? 3. Nature of Conveyance: x Assignment Decurity Agreement Other	2. Name and address of receiving party(ies) Name: Murata Manufacturing Co., Ltd. Internal Address: Street Address: Murata Manufacturing Co., Ltd. (A170) Intellectual Property Department 26-10, Tenjin 2-chome, Nagaokakyo-shi City: Kyoto-fu Country: JP Zip: 617-8555	
Execution Date: <u>March 7, 2003</u> 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the exe A. Patent Application No.(s): ////////////////////////////////////	address(es) attached:	
concerning document should be mailed: Name: Richard LaCava DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP Internal Address: Atty. Dkt.: M1071.1822/P1822 Street Address: 1177 Avenue of the Americas 41st Floor	 6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) <u>40.00</u> Enclosed Authorized to be charged to deposit account x Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: <u>50-2215</u> (Attach duplicate copy of this page if paying by deposit account) 	
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9. Statement and signature. To the best of my knowledge and belief, the foregoing infor is a true copy of the original document. Richard LaCava Name of Person Signing Total number of pages including cover sheet, attachm	Signature March 17, 2003	

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PATENT APPLICATION ASSIGNMENT SOLE OR JOINT INVENTORS EXECUTED OUTSIDE U.S.A.

FILE NO. M1071.1822

WHEREAS, We, Jun HATTORI and Norifumi MATSUI, as assignors, have invented certain improvements in LOW-TEMPERATURE HIGH-FREQUENCY AMPLIFYING APPARATUS AND WIRELESS APPARATUS for which an application for United States Letters Patent has been executed by us of even date herewith; and

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyoshi, Kyoto-fu 617-9555, Japan, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, We, as assignors, hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignce, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date: March 7, 200)

Date: March 7, 2003

Jun HATTORI Jun HATTORI Norifumi MATSUI

LEGALIZATION RECOMMENDED

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RECORDED: 03/17/2003