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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof		
Name of conveying party(ies):		Name and address of receiving party(ies)
Sadaaki Sakamoto		Name: Murata Manufacturing Co., Ltd.
		Internal Address:
Additional name(s) of conveying part attached?	y(ies) Yes X No	Street Address: Murata Manufacturing Co., Ltd. (A170) Intellectual Property Department
3. Nature of Conveyance:	□	26-10, Tenjin 2-chome, Nagaokakyo-shi
X Assignment	Merger	
Security Agreement	Change of Name	City: Kyoto-fu
Other		Country: <u>JP</u> Zip: <u>617-8555</u>
Execution Date:	May 14, 2003	Additional name(s) & Yes X No address(es) attached:
Application number(s) or patent number(s):		
A. Patent Application No.(s):		B. Patent No.(s):
	Additional numbers attach	ed? Yes x No
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved:11
Name: Edward A. Meilman DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP		7. Total fee (37 CFR 3.41) \$
Internal Address: Atty. Dkt.: M1071.1835/P1835		Enclosed
Street Address: 1177 Avenue of the Americas		Authorized to be charged to deposit account
41st Floor		X Authorized to be charged to credit card (Form 2038 enclosed)
O'th	Otata	8. Deposit account number:
City: New York	State: Zip: NY 10036-2714	50-2215 (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 information is true and correct and any attached copy is a true copy of the original document.		
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Edward A. Meilr Name of Person S		Signature May 21, 2003 Date
Total number of pages including cover sheet, attachments, and documents:		
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PATENT REEL: 014103 FRAME: 0298 PATENT APPLICATION ASSIGNMENT SOLE OR JOINT INVENTORS EXECUTED OUTSIDE U.S.A.

FILE NO. M1071.1835

WHEREAS, I, Sadaaki SAKAMOTO as assignor, have invented certain improvements in GLASS CERAMIC COMPOSITION, GLASS CERAMIC SINTERED MATERIAL AND CERAMIC MULTILAYER SUBSTRATE or 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, Nagaokakyo-shi, Kyoto-fu 617-8555, 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 assignee, 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: May 14, 2003

<u>Sadgaki Sakamoto</u> Sadaaki SAKAMOTO

LEGALIZATION RECOMMENDED

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PATENT REEL: 014103 FRAME: 0299