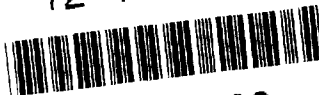



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To the Assistant Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.		
1. Name of conveying party(ies): Hideyuki HARADA Hirofumi SUNAHARA Type of Entity: Individuals Additional names(s) of conveying party(ies) attached? No	2. Name and Address of receiving party(ies): Murata Manufacturing Co., Ltd. 26-10, Tenjin 2-chome Nagaokakyo-shi, Kyoto-fu 617-8555, Japan Type of Entity: Corporation-Japan Additional name(s) & address(es) attached? No	
3. Nature of Conveyance: Assignment Execution Date: October 4, 2001	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: October 4, 2001	
A. Application No.(s)	B. Patent No.(s) <div style="text-align: center; font-size: 2em; font-family: cursive;">10/001316</div>	
Additional numbers attached? No		
5. Name and address of party to whom correspondence concerning document should be mailed: OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403	6. Total number of documents involved: 1 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed as part of Check No. 07127 In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.	
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8. 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.		
Edward A. Meilman Name of Person Signing		<div style="text-align: center;">  Signature </div> November 1, 2001 Date
Total number of pages including cover sheet, attachments, and document: 2		

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PATENT
REEL: 012352 FRAME: 0140

WHEREAS, We, Hideyuki HARADA and Hirofumi SUNAHARA, as assignors, have invented certain improvements in MULTILAYERED CERAMIC SUBSTRATE AND PRODUCTION METHOD THEREFOR 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, 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 born and paid by said assignee.

Date: October 4, 2001

Hideyuki Harada
Hideyuki HARADA

Date: October 4, 2001

Hirofumi Sunahara
Hirofumi SUNAHARA

LEGALIZATION RECOMMENDED

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