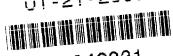
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DOCKET NO. 2336-153 PATENT		
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereta.		
 Name of conveying party(ies): Seok Taek JUN Young Keun LEE Ik Seo CHOI 	2. Name and address of receiving party(ies): Name: Samsung Electro-Mechanics Co., Ltd. Internal Address:	
Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No	Street Address: 314 Maetan-3-dong, Paldal-ku	
3. Nature of conveyance:		
⊠ Assignment □ Merger	City: Suwon State: Kyungki-do	
☐ Security Agreement ☐ Change of Name ☐ Other	Zip: Country: Republic of Korea	
Execution Date: December 30, 2002	Additional name(s) & address(es) attached? ☐ Yes ☐ No	
4. Application number(s) or patent number(s):		
If the document is being filed together with a new application, the execution date of the application is: December 30, 2002		
A. Patent Application No(s).	B. Patent No(s).	
Additional numbers attached? See No 10/340590		
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved: one 7. Total fee (37 CFR 3.41) \$40.00	
Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address:	☐ Enclosed ☐ Authorized to be charged to deposit account ☐ Credit Card payment form enclosed	
Street Address: 1700 Diagonal Road, Suite 300	8. Deposit account number: 07-1337	
City: Alexandria State: VA Zip: 22314	7//	
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9. Signature: Benjamin J. Hauptman, 29,310 Name of Person, Registration No.	January 13, 2003 Signature Date	
Total number of pages including cover sheet, attachment, and document: 3		
CMB No. 0851-0011 (exp. 4/94)		

01/14/2003 SDIRETA1 00000025 10340590 03 FC:8021 40.00 8P

> PATENT REEL: 013665 FRAME: 0043

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned, (4) _____ (1) JUN, Seok Taek (5) _____ (2) LEE, Young Keun (6) (3) CHOI, Ik Seo who have made a certain new and useful invention, hereby sell, assign and transfer unto SAMSUNG ELECTRO-MECHANICS CO., LTD. 314 Maetan-3-dong, Paldal-ku, Suwon, Kyungki-do, Republic of Korea its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled CERAMIC MULTILAYER SUBSTRATE AND METHOD FOR MANUFACTURING THE SAME (a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____; or (b) for which an application for United States Letters Patent was executed on and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-inpart thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall

hereafter act on behalf of said ASSIGNEE:

PATENT REEL: 013665 FRAME: 0044 AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

RECORDED: 01/13/2003

	INVENTOR(S)	DATE SIGNED
1) _	Name: JUN, Seok Taek	December 30, 2002
2) _	Name: LEE, Young Keun	December 30, 2002
3) _	CHOI、I、S Name: CHOI, Ik Seo	December 30, 2002

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