To the Honorable Commissi	Date: October 24, 2003
Please record the attached original documents or copy uncon-	Attorney Docket No. 5649-1194
1. Name of conveying party(ies): Additional name(s) of conveying party(ies) attached? Yes X No Nature of conveyance: X	2. Name and address of receiving party(ies): Samsung Electronics Co., Ltd. 416 Maetan-dong, Paldal-gu Suwon-City, Kyungki-do REPUBLIC OF KOREA ORDER 1867 1867 1867 1867 1867 1867 1867 186
4. Application Serial NoPatent No If this document is being filed together with a new application.	Additional name(s) & address(es) attached? Yes X No 10692578 the execution date of the application
is: October 23, 2003 Additional numbers attached? Yes X No	
	6. Total number of applications and patents involved:1 7. Total fee (37 CFR 3.41) \$ 40.00X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 50-0220

10/30/2003 LMUELLER 00000226 10692578

Robert N. Crouse, #44,635 Name of Person Signing

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Total number of pages including cover sheet, attachments and document: 3

Signature

PATENT REEL: 014637 FRAME: 0633

Attorney Docket 5649-1194

ASSIGNMENT

THIS ASSIGNMENT, made by me, Se-Ho Lee; citizen of the Republic of Korea, residing at 201-1804 Samsung APT, Yuljeon-dong, Jangan-gu, Suwon-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, I am the sole inventor of certain new and useful improvements in PHASE CHANGEABLE LAYERS INCLUDING PROTRUDING PORTIONS IN ELECTRODES THEREOF AND METHODS OF FORMING SAME, for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. I hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No._______, filed _______) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, hereinafter referred to as assignce, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged. I have sold and by these presents do hereby sell, assign, transfer and convey unto the said assigned its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

I hereby request that said Letters Patent be issued in accordance with this assignment.

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I further covenant and agree that, at the time of the execution and delivery of these presents. I possess full title to the invention and application above-mentioned, and that I have the unencumbered right and authority to make this assignment.

I further covenant and agree to bind my heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this _38 th day

WZ___(SEAL)

DC 1810

Witnessed by:

Date:

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