|  | 12-14                         | -1999 <sup>Dock</sup>   | et No.: SEC.660  |
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| FORM PTO-1595 (Modified)<br>(Rev. 6-93)<br>OMB No. 0651-0011 (exp. 4/94)<br>Copyright 1996-97 LegalStar<br>P08A/REV02                                | F 10122                       |   | U.S. DEPARTMENT OF COMMERCE<br>Patent and Trademark Office |
| Tab settings   |                               |   |  |
| 1. Name of conveying party(ies):         Kiw-sang KIM         Young-min MIN         In-sung PARK         Additional names(s) of conveying party(ies) | NOV 3 0 1999                  | 2. Name and address of Name: Samsung Elect  | receiving party(ies):                                      |
| 3. Nature of conveyance:   |                               |   |  |
| 🛛 Assignment   | Merger                        |   |  |
| Security Agreement   | Change of Name                | City: Kyungki-do  | State/Prov.:   |
| Other  |                               | Country: Republic of I  | Korea ZIP:   |
| Execution Date: November 22, 1999  |                               | Additional name(s) & address  | (es) 🗆 Yes 🖾 No  |
| 09/404,805 Septen  | ıber 24, 1999                 |   |  |
|  | Additional numbers            | 🗋 Yes 🗶 No  | AL   |
| 5. Name and address of party to whom o<br>concerning document should be maile  | -                             | 6. Total number of applic   | ations and patents involved: 1                             |
| Name: BRIAN C. ALTMILLER   |                               | 7. Total fee (37 CFR 3.4  | l):\$ 40.00  |
| Registration No. 37,271  |                               | <ul> <li>Enclosed - Any excess or insufficiency should be credited or debited to deposit account</li> </ul> |  |
| Address: JONES VOLENTINE, L.L.P.   |                               |   |  |
| 12200 SUNRISE VALLEY DRIVE   |                               | Authorized to be c  | harged to deposit account                                  |
| SUITE 150  |                               |   |  |
| •  | ate/Prov.: <u>VA</u>          | 8. Deposit account numb   | er: 8  |
|  | DO NOT U                      | SE THIS SPACE   | <u> </u>   |
| 9. Statement and signature.<br>To the best of my knowledge and belie<br>of the original document.<br>BRIAN C. ALTMILLER                              | ef, the foregoing informa     | " Calt  | NOVEMBER 50, 1999  |
| Name of Person Signing<br>Tota   | I number of pages including c | Signature<br>over sheet, attachments, and   | 3 Date 5   |
|  | the pages more and any o      | e.e. eneet, automnenta, and   | PATENT   |
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| JÓNE<br>VOLENTIN<br>L.L.P. (4799)           |  |
|---|--|
| Insert Name(s)<br>of Inventor(s)            | In consideration of the sum of One Dollat (\$1,00) and other good and valuable consideration paid to each of the undersigned<br>Kiw-sang KIM   |
|   | Young-min MIN In-sung PARK and   |
| Insert Name(s)<br>of Assignee(s)<br>Address | the undersigned hereby sell(s) and assign(s) to<br>Samsung Electronics Co., Ltd.   |
| AUU 68                                      | of <u>416. Maetan-dong</u> , Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea<br>(hereinafter designated as the Assignce) the entire right, title and interest for the United States as defined in 35<br>USC 100, in the invention known as  |
| Title of<br>Invention                       | PLASMA APPARATUS FOR FABRICATING SEMICONDUCTOR DEVICES<br>for which an application for patent in the United States of America has been executed by the undersigned   |
| Date of Signing<br>of Application           | on <u>November</u> 22, 1999<br>The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.  |
|   | The undersigned agree(s) to execute all papers necessary in connection with any interference which may<br>be declared concerning this application or continuation, division or reissue thereof and to cooperate with the<br>Assignee in every way possible in obtaining evidence and going forward with such interference.   |
|   | The undersigned agree(s) to execute all papers and documents and perform any act which may be<br>necessary in connection with claims or provisions of the International Convention for Protection of Industrial<br>Property or similar agreements.   |
|   | The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.   |
|   | The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all<br>Letters Patents of the United States resulting from said application or any division or divisions or continuing or<br>reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that<br>he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not<br>executed, and will not execute, any agreement in conflict herewith. |
|   | Page I of 2  |

PATENT REEL: 010429 FRAME: 0380 By: IONES VOLENTINE LLP;

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| members of the firm of JONES VOLENTINE, L.L.P. t   | C. Jones, Reg. No. 34,631 and Adam C. Volentine, Reg. No. 33,289, he power to insert on this assignment any further identification which may |  |  |
|--|--|--|--|
| be necessary or desirable in order to comply with the r  | ules of the United States Patent Office for recordation of this document.  |  |  |
| In witness whereof, executed by the undersi  | gned on the date(s) opposite the undersigned name(s).  |  |  |
| Date // / Name of Inventor   | KIM KIWSANG  |  |  |
| Date $1/22$ , 99 Name of Inventor  | iw-sang KIM uppend min Min   |  |  |
|  | oung-min MIN To-Sund Pack  |  |  |
| Date, Name of Inventor<br>Date, Name of Inventor   | -sung PARK   |  |  |
|  |  |  |  |
| Date, Name of Inventor   |  |  |  |
| but not required. If not acknowledged, then is<br>at least two witnesses who sign here. Howev<br>record an Assignment even if it has not been a<br>Witness   |  |  |  |
| Witness  |  |  |  |
| ACKNOWLEDGMENT   |  |  |  |
|  |  |  |  |
| } \$5  |  |  |  |
| This day of  | , 19, before me personally came the above-   |  |  |
| named  |  |  |  |
|  |  |  |  |
| to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth. |  |  |  |
| SEAL   | Official Signature   |  |  |
|  | Official Title   |  |  |
|  | * ** * * * * * * * * * * * * * * * * * *   |  |  |
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|  | Docket No.:SEC.660   |  |  |
| Serial No.:  | Filing Date:   |  |  |
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| Page 2 of 2  |  |  |  |
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## PATENT REEL: 010429 FRAME: 0381

RECORDED: 11/30/1999