PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| Su-yong Kim | 09/16/2011 |
| Doogon Kim | 09/16/2011 |

RECEIVING PARTY DATA

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| State/Country: | REPUBLIC OF KOREA | | |
| Postal Code: | 442-742 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13236746 |

CORRESPONDENCE DATA

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NAME OF SUBMITTER: ADAM C. VOLENTINE

Total Attachments: 2

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PATENT

REEL: 026958 FRAME: 0194

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

| Insert | | | 7 | | |
|---------------------------|--|------------------------|---|----------------|--|
| Name(s) of | 1. Su-yong | g Kim | 7. | | |
| Inventor(s) | 2. Doogon | Kim | 8. | | |
| | 3. | | _ | | |
| | 4. | | | | |
| | 5. | | 11 | | |
| | 6. | | 12 | | |
| Insert | 6 | | | | |
| Name(s) of | | | | | |
| Assignee(s) & | SAMSUNG ELECTRONICS CO., LTD. 416, Maetan-dong, Yeongtong-gu, | | | | |
| | | | | Korea | |
| Address(es) | of Suw | on-si, Gyeongg | i-do 442-742, Republic of | NOI GA | |
| | | | nee) the entire right, title and interest f the invention known as | or the United | |
| Title of | | | | 0.77 | |
| Invention | NONVOLATILE MEMORY DEVICE HAVING STACKED TRANSISTOR | | | | |
| | for which an application for patent in the United States of America has been executed by | | | | |
| Date of | for which an ap | plication for patent i | in the United States of America has be | en executed by | |
| Signing of Application | the undersigned | ion September 16 | 5, 2011 | | |
| | The undersione | d saree(s) to execute | all naners necessary in connection Wi | th this | |

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 agrec(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing. division or reissue thereof and to cooperate with the 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 necessary in connection with claims or provisions of the International Convention for Protection of Industrial 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.

Page 1 of 2

REEL: 026958 FRAME: 0195

name(s).

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned

The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

| Date | 2011/9/16 | Signature of In | ventor 5 | Sulyong Kim sulyong Kim |
|---------------|---|--|---|--|
| Date | 2011/9/16 | Signature of In | ventor | Doogs Kim |
| Date | | Signature of In | ventor | |
| Date | | Signature of In | eventor _ | |
| Date | | Signature of It | ventor _ | |
| Date | | Signature of Is | nventor _ | |
| | Patent and Trader Witness- | nark Office is to record | an Assigm | However, the current practice of the U.S. nment even it has not been witnessed.) |
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| Applicant F | Reference No. | ID-201035-US | | |
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RECORDED: 09/23/2011