502046073 08/31/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| Kyoung Rok HAN | 08/20/2012 |

RECEIVING PARTY DATA

| Name: | SK hynix Inc. |
|-----------------|------------------------------------|
| Street Address: | 2091, Gyeongchung-daero, Bubal-eub |
| City: | Icheon-si Gyeonggi-do |
| State/Country: | KOREA, REPUBLIC OF |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13602064 |

CORRESPONDENCE DATA

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 $\neg \Gamma$

via US Mail.

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| ATTORNEY DOCKET NUMBER: | PA0398-0 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | Woochoon W. Park |

Total Attachments: 2

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PATENT REEL: 028889 FRAME: 0359 OF \$40.00 13602064

ASSIGNMENT OF APPLICATION

Now, therefore, in consideration of the sum of one dollar (\$1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the assignor(s)

ASSIGNOR(S)

Kyoung Rok HAN

501-1503, Gangnam Maeul Kolon HaneulChae Apt., Gugal-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

by these presents do sell, assign and transfer unto said assignee

ASSINGEE

SK HYNIX INC.

2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Republic of Korea

and the heirs, successors, assigns and legal representatives of the assignee the full and exclusive right to the said invention in the United States which are disclosed in the U.S. patent application titled

SEMICONDUCTOR DEVICE AND CAPACITOR

| Lifer which an application for a United States Patent was filed on | pplication |
|---|---------------|
| for which an application for a United States Patent was executed by the undersign | ned on |
| and any and all improvements thereof, the entire rights, title and interest in and | |
| Patents which may be granted therefore in the United States. I/We hereby authorize the Director of the U.S. Patent and Trademark Office to issue said United States assignee, of the entire right, title, and interest in and to the same, for his sole use a | e and request |

fully and entirely as the same would have been held by me had this assignment and sale not been made. The assignor(s) agree promptly upon request of the Assignee, its heirs, successors, assigns and legal representatives of the assignee to communicate any facts known to it respecting the patent and the invention set forth therein, and to execute and deliver without further compensation any power of attorney, Assignment, application, whether original, continuation, divisional or reissue, or

of his legal representatives, to the full end of the term for which said Patent may be granted, as

Assignor(s) hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

Assignor(s) further covenants that assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to Assignor(s) and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain,

Page 1 of 2

other papers that may be necessary or fully-

DOCKET:

PATENT

maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNOR SIGNATURE(S)

[Inventor #1] Kyoung Rok HAN

August 20, 2012

Date

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