



FORM PTO-1595 (Substitute)

RECORDATION

PAT

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Patent and Trademark Office

(Rev. 8-96)

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

6-5-08

1. Name of conveying party(ies):

Sun Mo An and Youk Hee Kim

Additional name(s) of conveying party(ies) attached?

Yes No

2. Name and address of receiving party(ies):

Name: Hynix Semiconductor Inc.

Internal Address:

Street Address: San 136-1

Ami-ri, Bubal-eup

City/State/Zip:

Icheon-shi, Gyeonggi-do
Republic of Korea

3. Nature of Conveyance:

- Assignment
- Security Assignment
- Other
- Merger
- Change of Name

Execution Date(s): May 26, 2008 and May 26, 2008

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is (are): May 26, 2008 and May 26, 2008

A. Patent Application No.(s) Not Yet Known

B. Patent No.(s)

Filed: Herewith

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John P. White, Esq.

Internal Address: Cooper & Dunham LLP

Street Address: 1185 Avenue of the Americas

City/State/Zip: New York, New York 10036

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR §3.41): \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

03-3125

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John P. White

Name of Person Signing
Reg. No. 28, 678

Signature

June 5, 2008

Date

Total Number of pages including cover sheet, attachments and document: 4 06/13/2008 DBYRNE 00000052 033125 12156836

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Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
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PATENT

REEL: 021114 FRAME: 0130

Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned, Sun Mo An, residing at #101-503, Godam dormitory, 72-1 Godam-dong, Icheon-si, Gyeonggi-do, Republic of Korea; and Youk Hee Kim, residing at #2-406, Sindong-a Apt., Dacrim-dong, Yeongdeungpo-gu, Seoul, Republic of Korea

Hereby sell, assign and transfer to Hynix Semiconductor Inc., a corporation of the State of Republic of Korea, having a place of business at San 136-1, Ami-ri, Bubal-eup, Icheon-si, Gyeonggi-do, Republic of Korea and its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on

May 26, 2008 and May 26, 2008

and is entitled

THERMAL CODE TRANSMISSION CIRCUIT AND SEMICONDUCTOR MEMORY DEVICE USING THE SAME

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner for Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

JPW Rev. April 10, 2007

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: May 26, 2007
 Witness: [Signature] [signature]
Youn Joo LEE [printed name]
6th FL, Hubbahubba Bldg., 64B [address]
Yeoksam-dong, Gangnam-gu
Seoul, Republic of Korea

[Signature] [LS]
 Sun Mo An

JPW Rev. April 19, 2007

Date: May 26, 2008

Witness: [Signature] [signature]

Youn Joo LEE [printed name]

6th FL. Hubbahubba Bldg, 648 [address]

Yeoksam-dong, Gangnam-gu

Seoul, Republic of Korea

[Signature] [LS]
Youn Hye Kim

Date: _____

Witness: _____ [signature]

_____ [printed name]

_____ [address]

_____ [LS]

Date: _____

Witness: _____ [signature]

_____ [printed name]

_____ [address]

_____ [LS]

Date: _____

Witness: _____ [signature]

_____ [printed name]

_____ [address]

_____ [LS]

Date: _____

Witness: _____ [signature]

_____ [printed name]

_____ [address]

_____ [LS]