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Soong-Yong JOO, Myung-Koo KANG

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: February 6, 2006

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, Maetan-dong, Yeongtong-gu

City: Suwon-si

State/Prov.: Gyeonggi-do

Country: Korea

ZIP:

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

February 6, 2006

Patent Application No.

Filing date

B. Patent No.(s)

03/30/2006 DEYRNE 00000039 051130 11386630
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Additional numbers

☐ Yes ☒ No

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

Name: Amy Bizon-Copp

Registration No. 53,993

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55 Griffin Road South

City: Bloomfield

State/Prov.: CT

Country: USA

ZIP: 06002

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

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Amy Bizon-Copp

Name of Person Signing

Amy Bizon-Copp
Signature

March 22, 2006

Date

3

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PATENT

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ASSIGNMENT

WHEREAS We, **Soong-Yong JOO** of 404-1303 Jugong 4danji Apt., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea and **Myung-Koo KANG** of 2-522 Mi-Seong Apt, Sincheon-dong, Songpa-gu, Seoul, Korea _____ (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

ARRAY SUBSTRATE, METHOD OF MANUFACTURING THE SAME AND METHOD OF CRYSTALLIZING SILICON

which claims priority to Korean Application No. 2005-69237, filed on July 29, 2005 and for which We are about to file an application for Letters Patent of the United States;

AND WHEREAS, **SAMSUNG ELECTRONICS CO., LTD.** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of Korea, having a place of business at **416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea**, is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, a portion of the right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will,

at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 2.6. 2006

Soong Yong Joo L.S.
Soong-Yong JOO

Date: 2-6. 2006

Myung Koo Kang L.S.
Myung-Koo KANG