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To the Director of the U.S. Patent and Trademark Office

documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Kyoung-Bong ROUH

Execution Date(s) December 17, 2004Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Hynix Semiconductor Inc.

Internal Address: _____

Street Address: San 136-1, Ami-ri, Bubal-eubCity: Ichon-shiState: Kyoungki-doCountry: Republic of Korea Zip: 467-860Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Name: Babak S. Sani

Internal Address: _____

TOWNSEND AND TOWNSEND AND CREW LLPStreet Address: Two Embarcadero Center,
Eighth FloorCity: San FranciscoState: California Zip: 94111-3834Phone Number: (415) 576-0200Fax Number: (415) 576-0300Email Address: @townsend.com

6. Total number of applications and patents involved:

17. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 numbers _____
Expiration Date _____b. Deposit Account Number 20-1430Authorized User Name Townsend andTownsend and Crew LLP

9. Signature: _____

Signature

12/30/04

Date

Babak S. Sani

Name of Person Signing Atty. Reg. No. 37,495

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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PATENT
 REEL: 016151 FRAME: 0627

1. Additional name(s) of conveying party(ies):
(Continued from Page 1)

Seung-Woo JIN
Min-Yong LEE

2. Additional name(s) and address(es) of receiving party(ies):
(Continued from Page 1)

3. Additional application number(s) or patent number(s):
(Continued from Page 1)

A. Patent Application No.(s)

B. Patent No.(s)

60388939 v1

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, ROUH, Kyoung-bong / JIN Seung-Woo / LEE Min-Yong
of San 136-1, Ami-ri, Bubal-eub, Ichon-shi, Kyoungki-do 467-860, Republic of Korea,
hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application
for United States Letters Patent:

ION IMPLANATION APPARATUS AND METHOD FOR
Title of Invention: IMPLANTING IONS BY USING THE SAME

Date(s) of execution of Declaration: _____

Filing Date: _____

Application No.: _____; and

WHEREAS, Hynix Semiconductor Inc. of San 136-1, Ami-ri, Bubal-eub, Ichon-shi, Kyoungki-do 467-860, Republic of Korea
hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in
any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by
these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign
counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may
hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the
application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and
Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this
Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any
division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the
prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify,
acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such
other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and
improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San
Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: December 17, 2004

Rouh, Kyoung Bong

ROUH, Kyoung-Bong

Dated: December 17, 2004

Jin Seung Woo

JIN, Seung-Woo

Dated: December 17, 2004

Lee Min Yong

LEE, Min-Yong

WITNESSED BY:

Name: _____

Address: 2-3F., Line Bldg., 823-30 Yeoksam-dong, Kangnam-ku,

- Seoul 135-860, Republic of Korea

Date: 2004.12.24

60051565 v1