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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

Kyung Hoon Kim

12.18.03

Additional name of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

Name: Hynix Semiconductor Inc.

Internal \_\_\_\_\_

Street Address: San 136-1, Ami-ri, Bubal-eup,

Icheon-si, Gyeonggi-do 467-701, KOREA

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Dates: December 4, 2003

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

10737756

If this document is being filed together with a new application, the execution data of the application is: December 18, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Johnny A. Kumar

Internal Address: Heller Ehrman White & McAuliffe

Street Address: 1666 K Street, N.W.

Suite 300

City: Washington State: D.C. Zip: 20006

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:

08-1641

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

CUSTOMER NO. 26633

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.

Johnny A. Kumar

Name of Person Signing

Johnny A. Kumar

Signature

12/18/03

Date

Total number of pages including cover sheet, attachments, and documents: 3

12/19/2003 HTECKLUI 0000097 10737756

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PATENT REEL: 014820 FRAME: 0923

31356 U.S. PTO 10737756



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**ASSIGNMENT AND AGREEMENT**

*WHEREAS*, [Kyung Hoon KIM] (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled [DELAY LOCKED LOOP HAVING PHASE COMPARATOR] for which an application for United States Letters Patent is filed concurrently herewith;

*WHEREAS*, [Hynix Semiconductor Inc.], having its principal place of business at [San 136-1, Ami-ri, Bubal-eup, Icheon-si, Gyeonggi-do 467-701, Korea] (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

*NOW THEREFORE*, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

*ASSIGNOR HEREBY AUTHORIZES AND REQUESTS* the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

*ASSIGNOR HEREBY AGREES* (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.


Attorney Docket No.:

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

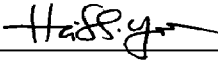
ASSIGNOR HEREBY GRANTS to the law firm of **Heller Ehrman White & McAuliffe** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Heller Ehrman White & McAuliffe** do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

**NAMES AND SIGNATURES OF INVENTORS**

Name: Kyung Hoon KIM	Signature: 	Date: Dec. 4, 2003
Name:	Signature:	Date:
Name:	Signature:	Date:

**NAMES AND SIGNATURES OF WITNESSES**

Name: Hai Shin Yoon	Signature: 	Date: Dec. 4, 2003
Name:	Signature:	Date:
Name:	Signature:	Date: