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Pillsbury Madison & Sutro LLP  
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USA Patent Appln.  
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For Inventions made outside USA  
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**NONPROVISIONAL**

**ASSIGNMENT  
OF NONPROVISIONAL APPLICATION**

**NONPROVISIONAL**

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) <b>KIM, JUNG-PILL</b>	(2)
	(3)	(4)
	(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

Hynix Semiconductor Inc.  
SAN 136-1, AMI-RI, BUBAL-EUB, ICHON-SHI, KYOUNGKI-DO 467-860, REPUBLIC OF KOREA

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION

Increasing a refresh period in a semiconductor memory device

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A)  even date herewith  
 (Complete (B)  on \_\_\_\_\_  
 line A, B and/or C) (C)  in U.S. Appln. No. 1 filed \_\_\_\_\_

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Madison & Sutro LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	<u>INVENTORS</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
1):	<u>KIM, JUNG-PILL</u> <i>J. P. Kim</i>	<u>04/15/03</u>	<u>LIM, HYE-YOUNG</u>
2)	_____	_____	_____
Name:	_____	_____	_____
3)	_____	_____	_____
Name:	_____	_____	_____
4) Name:	_____	_____	_____
Name:	_____	_____	_____
5) Name:	_____	_____	_____
Name:	_____	_____	_____