07-10-2007

FORM PTO-1595 (Rev. 08/05)

Docket No.: 070679-0247

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Director of the U. S. Patent and Tr 103425	ocuments or the new address(es) below.
1. Name of Conveying Party(ies)	2. Name and address of receiving party(ies)
Chun-Seok JEONG, Jae-Jin LEE, Chang-Sik YOO, Jung-	Name: HYNIX SEMICONDUCTOR INC.
June PARK, Young-Suk SEO	
•	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No	
3. Nature of Conveyance/Execution Date(s)	Address: San 136-1, Ami-ri, Bubal-cub, Ichon-shi,
	Kyoungki-do, 467-860, Republic of KOREA
Execution Date(s): June 28, 2007, June 28, 2007, June 27,	
2007, June 28, 2007, June 27, 2007	
(respectively)	
Security Agreement Change of Name	
Joint Research Agreement	
Government Interest Assignment	
Executive Order 9424, Confrmatory License	
Other	Additional 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 attac	hed? Yes No
5. Name and address to whom correspondence concerning	6. Total number of applications and patents
document should be mailed:	involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
Name: MCDERMOTT WILL & EMERY LLP	Authorized to be charged by credit card
Internal Address:	Authorized to be charged to deposit account
Control N.W.	Enclosed
Street Address: 600 13th Street, N.W.	None required (government interest not affecting title)nt
Ciry: Washington State: D. C. Zip: 20005-3096	Trono rodanos (goronos
On). William Comment of the comment	8. Payment Information:
Phone Number: 202.756.8000	B. Laymens and manager
Fax Number: 202.756.8087	a. Credit Card Last 4 Numbers
Email Address:	Expiration Date
	b. Deposit Account Number 500417
	Authorized User Name
	(11/Reg. No. 46, 429)
9. Signature. Stephen A. Becker, 26, 527 Stephen A. Becker, 26, 527	(del (Reg. No. 46, 429) June 29, 2007
	Signature Date
Name and Registration No. of Person Signing Total number of pages includi	ng cover sheet, attachments and documents:
CMB No. 0651-0027 (exp. 6/30/2008)	. 83

PATENT REEL: 019547 FRAME: 0096

(SAB)	
Docket No.:	
	SSICINMENT
ipt and sufficiency of which is hereby acknow	other good and valuable consideration in hand paid, the rece redged, the undersigned, DO, Chang-Sik ; and PARK, Jung-June and SEO, Young-Suk
who has made a certain new and useful inventional Semiconductor Inc.	tion, hereby sells, assigns and transfers unto
its successors and assigns (hereinafter designs United States of America as defined in 35 U.S. CLOCK DATA RECOVERY APPARA	
(a) for which an application for	r United States Letters Patent was filed on and identified by United States Serial No.
(b) for which an application for	United States Letters Patent was executed on
Trademarks to issue any and all United States all extensions, divisions, reissues, continuat benefits under the International Convention ASSIGNER, for its interest as ASSIGNER	requests the United States Commissioner of Patents and a Letters Patent which may be granted therefor and any and ions, or continuations-in-part thereof, and the right to all n for the Protection of Industrial Property to the said R, its successors, assigns and legal representatives; the ord in said application shall hereafter act on behalf of said
essistance in making application for and of Patunt of the United States, upon request representatives, and without fluther remine action based thereon growing out of or relative	transfer a like interest, and to render all necessary braining original, divisional, reissued or extended Letters of the said ASSIGNEE, its successors, assigns and legal realist. In each to any improvements, and applications for ted to the said invention; and to execute any papers by the legal representatives, deemed essential to ASSIGNEE's full reby transferred.
SIGNED on the date indicated aside my signs	nturo:
INVENTOR	DATE SIGNED
Name: JEONG, Chun-Scok	

수신시각 6월28일 11:53AM

INVENTOR	DATE SIGN!!D
Namo: LER, Jue-Jin	
INVENTOR	DATE SIGNED
Name: YOO, Chang-Sik	
INVENTIOR MA.	DATE SIGNED
Namo: PARK, Jung-June	June 28 , 2007
INVENTOR	DATH SIGNHD

수신시각 6월28일 11:53AM

Name: SEO, Young-Suk

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(SAB)													
Docket	No.:				-								
					AS	SIGNM	ENT						
In consideration of the premises and other good and valuable consideration in hand paid, the rece ipt and sufficiency of which is hereby acknowledged, the undersigned, JEONG, Chun-Seuk tand LEE, Jue-Jin tand YOO, Chang-Sik tand PARK, Jung-June and SEO, Young-Suk													
who has made a certain new and useful invention, hereby sells, assigns and transfers unto Hynix Semiconductor Inc.						· · · · · · · · · · · · · · · · · · ·							
Its successors and assigns (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 entitled CLOCK DATA RECOVERY APPARATUS													
(a)	for	which	an	application	for	United and			etters by		ent wa States		on No.
(b)	for	which	an	application	for	United	States	Lett	ers	Patent	was	executed	l on
and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to Issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;													
AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, relaxued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.													
SIGNED on the date indicated aside my signature:													
INVEN	TOR			•			DATE S	IONE	BD				
		10.0	62						 				

PATENT REEL: 019547 FRAME: 0099

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INVENTOR	DATE SIGNED	
Name: LEE, Jue-Jin		
Changelogn	June. 27.2007	
Name: YOO, Chang-Sik		
INVENTOR	DATE SIGNED	
Name: PARK, Jung-June		
INVENTOR Youngsuk Isla	DATE SIGNED June, 29. 2007	
Name: SEO, Young-Suk		

REEL: 019547 FRAME: 0100

(SAB	3)			
Dock	cet No.:			
		<u>ASSIGNMENT</u>		
In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned, JEONG, Chun-Seok; and LEE, Jae-Jin; and YOO, Chang-Sik; and PARK, Jung-June and SEO, Young-Suk				
	has made a certain new and useful a x Semiconductor Inc.	invention, hereby sells, assigns and transfers unto		
Unite		designated "ASSIGNEE") the entire right, title and interest for the 35 U.S.C. 100 in the invention entitled PARATUS		
(a)	for which an application	on for United States Letters Patent was filed or , and identified by United States Serial No		
•.		; or		
(b)	for which an application	for United States Letters Patent was executed or		
Trade all ex benef ASSI under	emarks to issue any and all United xtensions, divisions, reissues, con fits under the International Conv IGNEE, for its interest as ASSI	es and requests the United States Commissioner of Patents and States Letters Patent which may be granted therefor and any antinuations, or continuations-in-part thereof, and the right to all avention for the Protection of Industrial Property to the said SIGNEE, its successors, assigns and legal representatives; the of record in said application shall hereafter act on behalf of said		
Pater repre pater	tance in making application for a nt of the United States, upon requestratives, and without further re-	y agrees to transfer a like interest, and to render all necessary and obtaining original, divisional, reissued or extended Letter equest of the said ASSIGNEE, its successors, assigns and legal remuneration, in and to any improvements, and applications for related to the said invention; and to execute any papers by the said legal representatives, deemed essential to ASSIGNEE's full		
prote	ASSIGNEE, its successors, assigns ection and title in and to the invention	tion hereby transferred.		
prote	ASSIGNEE, its successors, assigns ection and title in and to the invention on the date indicated aside my	tion hereby transferred.		
prote SIGN	ection and title in and to the invention NED on the date indicated aside my	tion hereby transferred.		
prote SIGN	ection and title in and to the inventi	ny signature:		

PATENT REEL: 019547 FRAME: 0101

INVENTOR	DATE SIGNED
LEE TAE JIN	June 28 , 2007
Name: LEE, Jae-Jin	
INVENTOR	DATE SIGNED
Name: YOO, Chang-Sik	
INVENTOR	DATE SIGNED
Name: PARK, Jung-June	
INVENTOR	DATE SIGNED
Name: SEO, Young-Suk	

RECORDED: 06/29/2007

PATENT REEL: 019547 FRAME: 0102

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