VOLENTINE WHITT PLLC

PLLC #6254 P.002 /004 Docket No.: SEC.2473

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	ORM COVER SHEET U.S. DEPARTMENT OF COMMERCE
ex. 03-01) r8 No. 0851-0027 (exp.5/31/2002) ex/REV03 PATEN	Patent and Trademark Office
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To the Director of the United States Patent and Trademark C	Office: Please record the attached original documents or copy thereof.
. Name of conveying party(ies): Jung-Seok HWANG Sangwon HWANG Jong-Nam BAEK	<ul> <li>2. Name and address of receiving party(ies):</li> <li>Name: <u>Samsung Electronics Co., Ltd.</u></li> <li>Address: <u>416, Maetan-dong, Yeongtong-gu</u></li> </ul>
Additional names(s) of conveying party(ies)	· · · · · · · · · · · · · · · · · · ·
3. Nature of conveyance:	
🖾 Assignment 🔲 Merger	
Security Agreement Change of Name	City: Suwon-si State/Prov.: Gyconggi-do
Other	Country: Republic of Korea ZIP: 442-742
Execution Date: July 21, 2009	Additional name(s) & address(es) Yes 🖾 No
f this document is being filed together with a new application Patent Application No. Filing date 12/558,630 September 14, 2009	B. Patent No.(s)
Additional number	ns 🔲 Yes 🖾 No
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved:
Name: STEPHEN R. WHITT	7. Total fee (37 CFR 3.41):\$ 40.00
Registration No. <u>34,753</u>	Enclosed - Any excess or insufficiency should be credited or debited to deposit account
Address:     VOLENTIAR & WHITE, The       ONE FREEDOM SQUARE	Authorized to be charged to deposit account
11951 FREEDOM DRIVE, SUITE 1260	8. Deposit account number:
· · · · · · · · · · · · · · · · · · ·	50-0238
City: <b>RESTON</b> State/Prov.:         VA           Country:         U.S.A.         ZIP:         20190	(Attach duplicate copy of this page if paying by deposit account)
9. Statement and signature. To the best of my knowledge and belief, the foregoing into of the original document. Stephen R. Whitt Name of Person Signing Total number of pages includin Heider welt in the provi	NOT USE THIS SPACE formation is true and correct and any attached copy is a true copy formation is true and correct and any attached copy is a true copy Signature
Mail Stop Assi Director of the United	aed with required down Services i States Patent and Trademark Office D, Alexandria, VA 22313-1450 PATENT

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Insert Name(s) of Name(s) of       1. Jung-Seck HVANG       7		ASSI	GNMENT
Insert Name(s) of Inventor(s)       1. Jung-Seck HWANG       7.         2. Sangwon HWANG       8.         3. Jong-Nam BAER       9.         4.       10.         5.       1.         6.       12.         Insert Name(s) of Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Assignet(s) & Address(es)       11.         6.       12.         Insert Name(s) of Assignet(s) & Assignet(s) & Address(es)       12.         Insert Name(s) of Assignet(s) & Assignet(s) & Assignet(s) & Assigne(s) & Assignet(s) & Assignet(s) & Assignet(s)			
Name(s) of Investor(s)       1. JUNG-Secok HWANG       7.         2. Sangwon HWANG       8.         3. Jong-Nam ENEK       9.         4			
Inventor(s)       2. Sangwon HWANG       8.         3. Jong-Nam BAEK       9.         4.       10.         5.       11.         6.       12.         Insert       Mante(s) of Assignet(s) of Assignet(s) of Assignet(s) of Assignet(s) of Assignet(s) of Assignet(s) of SaMSUNG ELECTRONICS CO LTD.         Address(es)       0.         0.       12.         Hourdersigned hereby sell(s) and assign(s) to         Address(es)       0.         0.       SaMSUNG ELECTRONICS CO LTD.         Address(es)       0.         9.       Samsung, Yeongtoing-gu, Address(es)         0.       Guevon-s1, Gyeonggi-do 442-742, Republic of Korea         (hereinafter designated as the Assigne) he entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as         Title of Invention       METHOD OF OPERATING NONVOLATILE MEMORY DEVICE AND MEMORY         SYSTEM       States of America has been executed by Signing of Application         The undersigned on       July 21, 2009         The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and diso to execute separate assignments in connection with sub applications at the Assignee may deem necessary or expedient.         The undersigned agree(s) to execute all papers necessary in connect		l. Jung-Seok HWANG	7
3. JONG-NAM EAEK       9.         4.       10.         5.       11.         6.       12.         Marriely of       Assignee(s) of         Assignee(s) of       SUMSUNG ELECTRONICS CO LTD         Address(cs)       0.       12.         Marriely of       SUMSUNG ELECTRONICS CO LTD         Address(cs)       0.       14.6, Mextan-clong, Yeongtong-gu, Reportsong-gu, Sumon-si, Gyeonggi-do 442-742, Republic of Korea         Mitted of       Sumon-si, Gyeonggi-do 442-742, Republic of Korea         Title of       METHOD OF OPERATING NONVOLATILE MEMORY DEVICE AND MEMORY         SYSTEM       SYSTEM         Date of       for which an application for patent in the United States of America has been executed by         Signing of Application       fue undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in very way possible in obtaining evidence and going forward with such interference.         The undersigned agree(s) to execute all papers necessary in connection with any interference.         The undersigned agree(s) to perform all affirmative acts which may be necessary to obtai a grant of a valid United States patent to the Assignee.			
4.       10.         5.       11.         6.       12.         Twante(s) of       12.         Assignet(s) of       SAMSUNG ELECTRONICS CO LTD         Address(ss)       6.         Survent-sil, Gyeongg1-do 442-742, Republic of Korea         Intervision       Alfo, Mactan-dong, Yeongg1-do 442-742, Republic of Korea         Intervision       METHOD OF OPERATING NONVOLATILE MEMORY DEVICE AND MEMORY         System       System         System       for which an application for patent in the United States of America has been executed by         Signing of Application       for which an application for patent in the United States of America has been executed by         Signing of Application       for which an application for patent in the United States of America has been executed by         The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications as the Assignee may are executed agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thercof and to cooperate with the Assignee in every way possible in obtaining interference which may be declared concerning this application or continuing, division or contensing division or contensing division or contensing division or contensing to reissue thercof and to cooperate with the Assignee in every way possible in obtaining interference.         The undersigned agree(s) to perform all			
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Address(es)       of	Name(s) of		
Address(es)       of	Assignee(s) &	416, Maetan-dong,	, Yeongtong-gu,
States as defined in 35 USC 100, in the invention known as         Title of Invention       METHOD OF OPERATING NONVOLATILE MEMORY DEVICE AND MEMORY         SYSTEM         Date of Signing of Application       for which an application for patent in the United States of America has been executed by the undersigned on	Address(es)		
interference which may be declared concerning this application or continuing. division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee. <i>Page 1 of 2</i>			
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<form>         The undersigned hereby grant(i) the practitioners associated with the <u>CUSTOMER NUMBER 2095</u> rule is not or incomply with the rules of the United States Patent Office for recordation of this document.         The undersigned hereby sufficiency of a request(s) the Commissioner of Patents to issue any and all Letters for the states treating from said application or any division of divisions or continuing or insue of the United States recently and application or associated with the customer and thereby covenants the interest, or document in condition therewith on the states (they have) full right to convey the entire interest herein assigned, and that hereby covenants the interest, and that hereby covenants the interest of the united States (the United States recently and granters of the United States (the United States recently and granters).         Date (b)       Date (b)       Signature of Inventor       Jung Freeker Manne         Date (b)       Date (b)       Signature of Inventor       Jung Freeker Manne         Date (b)       Date (b)       Signature of Inventor       Jung Freeker Manne         Date (b)       Date (b)       Signature of Inventor       Jung Freeker Manne         Date (b)       Signature of Inventor       Jung Freeker Manne       Jung Freeker Manne         Date (b)       Signature of Inventor       Jung Freeker Manne       Jung Freeker Manne         Date (b)       Signature of Inventor       Jung Freeker Manne       Jung Freeker Manne         Date (b)       Signature of Inventor       Jung Freeker Manne       Jung Freek</form>			Page 2 of 2	1532281246083386
The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Pratent Office for recordation of this document. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or resourced, and will not execute, any agreement in conflict herewith. In the source pplications thereof to the said Assignce, as Assignce of the entire interest, and hereby covenants the has (they have) full right to convey the entire interest herein assigned, and that he has (they have) full right to convey the entire interest herein assigned. The safet of the undersigned name(s). Date <u>2009, 7, 21</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>2009, 7, 21</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>2009, 7, 21</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>2009, 7, 21</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>509, 1, -1</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>509, 1, -1</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>509, 1, -1</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>500, 1, -1</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>500, 1, -1</u> Signature of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>Signature</u> of Inventor <u>Jury 504</u> <u>Harry</u> Date <u>Signature</u> of Inventor <u>Jury 504</u> <u>Harry</u> <u>Mitness</u> <u>Harry</u> <u>His is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the our pratice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)</u>	Applicant R	eference No	ID18440-US	
The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division of divisions or continuing or reissue applications thereof to the said Assignee, as Assignee, of the entire interest, and hereby covenants the he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) but executed, and will not executed, any agreement in conflict herewith. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned mane(s). Date $2009.7.2.1$ Signature of Inventor $\frac{M_{WW} + M_{W}^{W} + M_{W}^{W}}{M_{WW}^{W} + M_{W}^{W} + M_{W}^{W$	Applicant R	eference No	ID18440-US	
The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20997</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division of divisions or continuing or reissue applications thereof to the said Assignee, as Assignee, of the entitie interest, and hereby covenants the he kets (they have) full right to convey the entire interest herein assigned, and that he has (they have) or executed, and will not execute, any agreement in conflict herewith. In writness whereof, executed by the undersigned on the date(s) opposite the undersigned mame(s). Date <u>2009, 7, 21</u> Signature of Inventor <u>Jung 564 Huang</u> Date <u>2009, 7, 21</u> Signature of Inventor <u>Jung 564 KBARE</u> Date <u>5009, 7, 21</u> Signature of Inventor <u>Jung 460 KBARE</u> Date <u>Signature of Inventor</u> <u>Jung 460 KBARE</u> Date <u>Signature of Inventor</u> Date <u>Signature of Inventor</u> Witnesse	Applicant R	eference No	ID18440-US	
The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States Patent Office for recordation of this document. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any divisions or continuing or resisue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants the he as (they have) full right to convey the entire interest therin assigned, and that he has (they have) not execute, any agreement in conflict herewith. In writness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s). Date $2009.7.2.4$ Signature of Inventor $\frac{J_{WW} - W_{W} + \frac{W_{W}}{M_{W}} + \frac{W_{W}}{M_{W$				
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The undersigned hereby grant(s) the practitioners associated with the CUSTOMER NUMBER 20987 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.         The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants the he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.         In writness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).         Date $2009.7.2$ Signature of Inventor $Jong-Aon_{anne} BAFK_{anne}$ Date $2009.7.2$ Signature of Inventor $Jong-Aon_{anne} BAFK_{anne}$ Date $2009.7.2$ Signature of Inventor $Jong-Aon_{anne} BAFK_{anne}$ Date       Signature of Inventor         Date       Signature of Inventor         Date       Signature of Inventor         Date       Signature of Inventor		witnessed by at lea Patent and Tradem	ist two witnesses who sign here ark Office is to record an Assig	. However, the current practice of the U.S. gument even it has not been witnessed.)
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The undersigned hereby grant(s) the practitioners associated with the CUSTOMER NUMBER 20987 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.         The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.         In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).         Date $2009.7.2.1$ Signature of Inventor $May = 5006$ $Max = 2009.7.2.1$ Signature of Inventor $May = 5006.7.2.1$ Signature of Inventor $May = 2009.7.2.1$ Signature of Inventor $May = 2009.7.2.1$ Signature of Inventor $May = 5006.7.2.1$ Signature of Inventor $May = 2009.7.2.1$ Signature of Inventor				
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