FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03

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Execution Date: October 20, 2006	Additional name(s) & address(es) ☐ Yes ☒ No
Patent Application No. Filing date  NEW OCTOBER 26, 2006	B. Patent No.(s)
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**PATENT REEL: 018472 FRAME: 0139**  VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

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## ASSIGNMENT

	AUSIGNIENI
	In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned
Insert Name(s) of Inventor(s)	1. Dong-Han KIM 7.
inventor(s)	2 8
	3 9
	4 10
	511
Insert	6. 12. the undersigned hereby sell(s) and assign(s) to
Name(s) of Assignee(s) &	SAMSUNG ELECTRONICS CO. LTD.
4 / () 11	416, Maetan-dong, Yeongtong-gu,
Address(es)	of Suwon-si, Gyeonggi-do, Republic of Koroa
Invention  Date of	for which an application for patent in the United States of America has been executed by
Signing of Application	the undersigned on October 20, 2006
	The 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 as the Assignee may deem necessary or expedient.  The undersigned agree(s) to execute all papers necessary in connection with any 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.

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VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

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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 Assignce, as Assignce 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 20-6, 10	Signature of Inventor	Dong-han Kim
Date	Signature of Inventor	
witnessed t Patent and	by at least two witnesses who sign here Trademark Office is to record an Assi	d that the execution by the Inventor(s) be e. However, the current practice of the U.S. garnent even it has not been witnessed.)
Wi	itness	
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plicant Reference No.	S06US009	

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**RECORDED: 10/26/2006**