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FORM PTO-1596

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DOCKET NO.: 2438-064

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1. Name of conveying party(ies) Sook Ho KIM, Sam Yong CWUNG, Song Soo HAN, Mee Seath LIM, Sang Heon LEE, Burn Jae YOU and Sang Rok OH Additional name(s) of conveying party(ies) attached? 3. Nature of conveying party(ies) attached? 3. Nature of conveying party(ies) attached? 4. Assignment	To the Fioriolable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereto:			
Mee Scub LIM, Sang Heon LEE, Burn Jae YOU and Sang Rok OH Additional name(s) of conveyance: X. Assignment	1. Name of conveying party(ies): 2	Name and address of receiving party(ies):			
Sang Rok OH Additional name(s) of conveying party(ies) attached? 3. Nature of conveyance: X. Assignment Security Agreement Other Security Agreement Other City: Seoul State or Area: Zip?Postal Code: 100-865 Cvuntry: Republic of Korea Execution Date: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). B. Patent No(s). B. Patent No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin Hauptman Reg. Nof 29,3 10 December 18, 2001 Date		Name: SAMSUNG CORPORATION			
Additional name(s) of conveying party(les) attached? 3. Nature of conveyance: X. Assignment		Internal Address:			
Street Address: 310, Tacpyeong-ro 2-ga, Jung-gu Street Address: 310, Tacpyeong-ro 2-ga, Jung-gu Street Address: 310, Tacpyeong-ro 2-ga, Jung-gu City: Scoul State or Area: Zip/Postal Code: 100-865 Country: Republic of Korea Execution Date: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin Hauptman Reg. No 29,3 30 December 18, 2001 Date	•				
Security Agreement Change of Name Other City: Secul State or Area: ZipPostal Code: 100-865 Country: Republic of Korea Execution Date: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). B. Patent No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin Hauptman Reg. No 29,3 30 December 18, 2001 Date	3. Nature of conveyance:				
Security Agreement Change of Name Other	X Assignment Merger	Street Address: 310, Taepyeong-ro 2-ga, Jung-gu			
Execution Date: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). B. Patent No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Chowe Hauptman Gilman & Berner Internal Address: Struct Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin / Hauptman Reg. No 29,330 December 18, 2001 Date	Security Agreement Change of Name				
Execution Date: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). B. Patent No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: 1. Total fee (37 CFR 3.41) 1. Suppose the concerning document form enclosed Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin L Harptman Reg. No 29.3.30 December 18, 2001 Date	Other	City: Seoul State or Area:			
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature: 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. Benjamin J. Hauptman Reg. No 229 310 December 18, 2001 Date		Zip/Postal Code: 100-865 Country: Republic of Korea			
If the document is being filed together with a new application, the execution date of the application is: December 14, 13, 13, 11, 11, 14 and 10, 2001, respectively A. Patent Application No(s). B. Patent No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin Hauptman Reg. No 229,310 December 18, 2001 Date		Additional name(s) & address(es) attached?			
A. Patent Application No(s). Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin Hauptman Reg. No 29,310 December 18, 2001 Date	4. Application number(s) or patent number(s):				
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: LOWE HAUPTMAN GILMAN & BERNER Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin J. Hauptman Reg. No 29,310 December 18, 2001 Date	A. Patent Application No(s).	B. Patent No(s).			
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Internal Address: Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin J. Hauptman Reg. No. 29,310 December 18, 2001 Date	Name:	7. Total fee (37 CFR 3.41) \$40.00			
Street Address: 1700 Diagonal Road, Suite 310 City: Alexandria State: VA ZIP: 22314 DO NOT USE THIS SPACE 9. Statement and signature. 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. Benjamin J. Hauptman Reg. No 229,310 December 18, 2001 Date	LOWE HAUPTMAN GILMAN & BERNER				
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9. Statement and signature. 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. Benjamin J. Hauptman Reg. No 29,310 December 18, 2001 Date	•	8. Deposit account number: 07-1337			
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. Benjamin V. Hauptman Reg. No. 29,310 December 18, 2001 Date	DO NOT USI	E THIS SPACE			
December 18, 2001 Date	To the best of my knowledge and belief, the foregoing information original document.	is true and correct and any attached copy is a true copy of the			
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CMB No. 0851-000 (exp. 4/94)		lotal number of pages comprising cover sheet: 1			

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PATENT REEL: 012389 FRAME: 0238

ASSIGNMENT

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,

(2) <u>CH</u>	M, Seok Ho HUNG, Sam Yong	(4) <u>LEE</u> , (5) <u>YOU</u> , (6) OH S	Bum Jae		
(7) LI	AN, Song Soo M, Mee Seub made a certain new and useful invention	(6) OH, Si	_	nto	
	MSUNG CORPORATION having		 <u> </u>		
Tae	epyeong-ro 2-ga, Jung-gu	., Seoul, 1	00-865, Repi	ublic of Kore	ea
	sors and assigns (hereinafter designated " I in 35 U.S.C. 100 in the invention entit		e entire right, title ar	nd interest for the Uni	ted States of America

MARKER USED FOR MEASURING DISPLACEMENT OF MOVING OBJECT AND METHOD THEREFOR

- (a) for which an application for United States Letters Patent was filed on, and identified by United States Serial No.; or
- (b) for which an application for United States Letters Patent was executed on,

and the undersigned hereby authorize and request 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, substitutes, renewals, 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 agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued 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 dates indicated aside our signatures:

INVENTORS	DATE SIGNED
1) Cm, Sok Ho	Dec. 14. 2001
Name: KIM, Seok Ho 2) 5. 5. CHUNG	Dec. 13,2001
Name: CHUNG, Sam Yong 3) Man, s, s	December. 13.2001
Name: HAN, Song Soo	Dec. 11. no/
Name: LEE, Sang Heon S) Mu for In	Dec. 11. 2001
Name: YOU, Bum Jae 6) Han Down Ohomysok	Dec. 14. 2001
Name: Off, Sang Role 7) den Valle Soul	Dec 10, 2001
Name: LIM, Mee Seub	

PATENT REEL: 012389 FRAME: 0239