|--|--|--|

Form PTO-1595	U.S. DEPARTMENT OF COMMERCE		
1-31-92	Potent and Trademorts Office		
101486203 Falent and Trademark Office			
PATENTS ONLY To the Assistant Commissions of Patents Plants and the standard size of the Commission of Patents Plants and the standard size of the Commission of Patents Plants and the standard size of the Commission of Patents Plants and the standard size of the Commission of Patents Plants and the standard size of the Commission of Patents Plants and the standard size of the Commission of Patents Plants and the standard size of the Commission of Patents Plants and the Standard Stand			
To the Assistant Commissioner of Patents. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies)?			
Shin-woong KAY	SAMSUNG ELECTRONICS CO., LTD.		
James Wooding Land	416 Maetan-don, Paldal-gu, Suwon-city, Kyungki-do, Republic of		
	Korea		
Additional name(s) of conveying party(ies) attached?	OIPE		
□ yes ☑ no			
a yes a no			
2. Network Community	D OCT 0 6 2000 L		
3. Nature of Conveyance:			
☑ Assignment ☐ Merger	RADEMARKO		
☐ Security Agreement ☐ Change of Names	OUE ME		
□ Other	Additional name(s) & address(es) attached?		
Execution Date: July 18, 2000	□ yes ☑ no		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, the execution date of the application is:			
A. Patent Application No.(s)	B. Patent No.(s)		
09/577,362			
Additional numbers attached? ☐ Yes ☑ No			
5. Name and address of party to whom correspondence	6. Total number of applications and registration involved:		
concerning document should be mailed:	1		
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC	7. Total Fee (37 CFR 3.41): \$40.00		
2100 Pennsylvania Avenue, N.W.	☑ Enclosed. Please charge any underpayment in		
Suite 800 Washington, D.C. 20037-3213	connection with this Assignment to Deposit Account No. 19-4880.		
Washington, D.C. 20037-3213	☐ Authorized to be charged to Deposit Account		
	8. Deposit Account No.		
L			
DO NOT WRITE IN 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.			
Mara IMIL			
Darryl Mexic Reg. No.	October 6, 2000		
Darryl Mckic Reg. No.	23,063 Date		
TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2			
OMB No. 0651-0011 (exp. 4/94)			
Do not detach this portion			
Mail documents to be recorded with required cover sheet information to:			
Assistant Co	ommissioner of Patents		
Box Assignments Washington, D.C. 20231			
Washington, D.C. 20231			

0.1972000 MINAKMOT 00000014 194680 - 158 i

Assignment

Whereas, I/We, Shin-woong KAY of 205-302 Grand Villa, 111 Gumi-dong, Pundan-gu, Seongnam-city, Kyungki-do, Rep. of Korea, hereinafter called assignor(s), have invented certain improvements in NOISE REDUCING APPARATUS FOR MINIMIZING NOISE IN MODEMS and executed an application for Letters Patent of the United States of America therefor on July 18, 2000, and

Whereas, SAMSUNG ELECTRONICS CO., LTD., 416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3212 to insert here in parentheses (Application number 09/577, 362, filed May 23, 2000) the filing date and application number of said application when known.

Date:	X Jul 18 2000 Shine	Locay Kay
	s/Shin-woong KAY	• 0
Date:		
	s/	
Date:		
	s/	
Date:		
	s/	
Date:		
	s/	
Date:		
	s/	

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261) 8/92

PATENT RECORDED: 10/06/2000 REEL: 11144 FRAME: 0706