#### 501855946 03/16/2012

#### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
Moon Kee KIM	03/12/2012
Cheol Ho YIM	03/12/2012
Kyung Sik HAN	03/12/2012
Keun Hwan CHOI	03/12/2012
Jae Yeon NOH	03/12/2012
Jae Hwang YU	03/12/2012
Min Seok KIM	03/12/2012

#### **RECEIVING PARTY DATA**

Name:	SK TELECOM CO., LTD.	
Street Address:	11 Euljiro, 2-ga, Jung-gu	
City:	Seoul	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	100-844	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13414181

#### **CORRESPONDENCE DATA**

 Fax Number:
 (703)518-5499

 Phone:
 7035357340

Email: yshgroup@ipfirm.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Lowe Hauptman Ham & Berner, LLP
Address Line 1: 1700 Diagonal Road, Suite 300
Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 4900-0071

**PATENT** 

REEL: 027877 FRAME: 0302

P \$40.00 13414181

501855946

NAME OF SUBMITTER:	Yoon S. Ham		
Total Attachments: 10			
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# **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,

Cheol Ho YIM

2)

Moon Kee KIM

1)

system and the undersigned hereby authorizes and requests the United States Letters Patent was executed on	3)	Kyung Sik HAN	4)	Keun Hwan CHOI	
who has made a certain new and useful invention, hereby sells, assigns and transfers unto STELECOM CO., LTD., having a place of business at 11 Euljiro, 2-ga, Jung-gu, Seoul 100-84 Republic of Korea, its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, ti and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled:  SYSTEM AND METHOD FOR MINIMIZING SIGNAL INTERFERENCE BETWEEN BROADCASTING SIGNALS AND COMMUNICATION SIGNALS WITHIN LOCAL AREA AND APPARATUS APPLIED TO THE SAME  (a) for which an application for United States Letters Patent was filed on, and identified United States Patent Application No, or  (b) for which an application for United States Letters Patent was executed on, and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersignagrees that the attorneys of record in said applications for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the sASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, applications for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the sASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the s ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGN	5)	Jae Yeon NOH	6)	Jae Hwang YU	
TELECOM CO., LTD., having a place of business at 11 Euljiro, 2-ga, Jung-gu, Seoul 100-84 Republic of Korea, its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, ti and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled:  SYSTEM AND METHOD FOR MINIMIZING SIGNAL INTERFERENCE BETWEEN BROADCASTING SIGNALS AND COMMUNICATION SIGNALS WITHIN LOCAL AREA AND APPARATUS APPLIED TO THE SAME  (a) for which an application for United States Letters Patent was filed on, and identified United States Patent Application No; or  (b) for which an application for United States Letters Patent was executed on, and identified United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersignagrees 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 mak application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the s 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 s ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and the invention hereby transferred.  3 //2/2010  Name: Moon Kee KIM  Date	7)	Min Seok KIM		x box if continued on page 2	
BROADCASTING SIGNALS AND COMMUNICATION SIGNALS WITHIN LOCAL AREA AND APPARATUS APPLIED TO THE SAME  (a) for which an application for United States Letters Patent was filed on, and identified United States Patent Application No, or,  (b) for which an application for United States Letters Patent was executed on,  and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any a lil United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersign 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 mak application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the sASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the s ASSIGNEE; its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and the invention hereby transferred.  SIGNED on the date indicated aside my signature:  3 //2/2011  Name: Moon Kee KIM  Date	TELECOM ( Republic of K	CO., LTD., having a plac orea, its successors and assi	e of busine gns (hereina	ess at 11 Euljiro, 2-ga, Jufter designated "ASSIGNE	ung-gu, Seoul 100-844, E") the entire right, title
AND APPARATUS APPLIED TO THE SAME  (a) for which an application for United States Letters Patent was filed on, and identified United States Patent Application No, or  (b) for which an application for United States Letters Patent was executed on,  and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersign 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 mak application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the sassignees and legal representatives, and without further remuneration, in and to any improvements, a applications for patent based thereon, growing out of or related to the said invention, and to execute any papers by the sassignees.  ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in anothe invention hereby transferred.  SIGNED on the date indicated aside my signature:  1)	SYSTE	M AND METHOD FOR M	ONIMIZIN	G SIGNAL INTERFERE	NCE BETWEEN
for which an application for United States Letters Patent was filed on, and identified United States Patent Application No, or  (b) for which an application for United States Letters Patent was executed on, and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, continuations—in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersignageres 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 mak application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the s ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the s ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in anothe invention hereby transferred.  SIGNED on the date indicated aside my signature:  3 //2/2012  Name: Moon Kee KIM  Date	BROADCA	ASTING SIGNALS AND C	COMMUNI	CATION SIGNALS WIT	HIN LOCAL AREA
United States Patent Application No		AND APPAR	ATUS APP	LIED TO THE SAME	
and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any a all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersignagrees 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 mak application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the sassign ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the sassignee. Its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and the invention hereby transferred.  SIGNED on the date indicated aside my signature:  3 //2/2012  Date  Date	(a) for whic United S	ch an application for United Statestates Patent Application No.	es Letters Pate	nt was filed on; or	, and identified by
all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Indust Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersignagrees 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 mak application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the s ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, a applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the s ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in anothe invention hereby transferred.  SIGNED on the date indicated aside my signature:  3 //2/2011  Name: Moon Kee KIM  Date	(b) for which	h an application for United States I	Letters Patent v	vas executed on,	
application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the s ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, a applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the s ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and the invention hereby transferred.  SIGNED on the date indicated aside my signature:  1)	all United States : continuations-in-p Property to the sa	Letters Patent which may be gran part thereof, and the right to all id ASSIGNEE, for its interest as a	ted therefore a benefits under ASSIGNEE, it	nd any and all extensions, division the International Convention for s successors, assigns and legal rep	ns, reissues, continuations, or the Protection of Industrial presentatives; the undersigned
1) Name: Moon Kee KIM  Date	application for an ASSIGNEE, its stapplications for phassIGNEE, its stapplications.	d obtaining original, divisional, rei accessors, assigns and legal repres- patent based thereon, growing out accessors, assigns and legal repres	issued or extendentatives, and to of or related	ded Letters Patent of the United S without further remuneration, in a to the said invention; and to ex-	tates, upon request of the said and to any improvements, and ecute any papers by the said
2)	SIGNED on the d	ate indicated aside my signature:			
2)	1)Name: Moon F	Kee KIM		3 / 12 / S	2 <i>01</i> 2
Name: Cheol Ho YIM Date	2)	Ho YIM		Date	

3)	3/12/2012
Name: Kyung Sik HAN	Date
4) Name: <b>Keun Hwan CHOI</b>	Date
Name: Keun nwan Choi	Date
Name: Jae Yeon NOH	Date
6) TacHwarf Name: Jae Hwang YU	3/12/20/2
Name: Jae Hwang YU	Daté
7)	Date

# **ASSIGNMENT**

which is		on of the premises and o		uable consideration in hand paid, the receipt and suffici	ency of
	1)	Moon Kee KIM	2)	Cheol Ho YIM	
	3)	Kyung Sik HAN	4)	Keun Hwan CHOI	
	5)	Jae Yeon NOH	6)	Jae Hwang YU	
	7)	Min Seok KIM		x box if continued on page 2	
TELE Repub	COM CO., lic of Korea,	LTD., having a paits successors and a	place of busin assigns (herein	on, hereby sells, assigns and transfers unt ess at 11 Euljiro, 2-ga, Jung-gu, Seoul 100 after designated "ASSIGNEE") the entire righ ed in 35 U.S.C. 100 in the invention entitled:	0-844.
				NG SIGNAL INTERFERENCE BETWEEN	
BR	OADCASTI	NG SIGNALS AN	D COMMUNI	CATION SIGNALS WITHIN LOCAL AR	EA
		AND APP	ARATUS APP	PLIED TO THE SAME	
(a)		application for United Seatent Application No.		ent was filed on, and identi	fied by
(b)	for which an a	pplication for United Sta	tes Letters Patent	was executed on,	
all Unit	ed States Letter ations-in-part th to the said AS	s Patent which may be a sereof, and the right to SIGNEE, for its interest	granted therefore a all benefits under as ASSIGNEE, in	tates Commissioner of Patents and Trademarks to issue and any and all extensions, divisions, reissues, continuat rethe International Convention for the Protection of International successors, assigns and legal representatives; the under act on behalf of said ASSIGNEE;	ions, or dustrial
ASSIGN applicat ASSIGN	ion for and obta NEE, its successions for patent	uning original, divisional sors, assigns and legal re- based thereon, growing sors, assigns and legal re-	I, reissued or exter presentatives, and out of or related	te interest, and to render all necessary assistance in nded Letters Patent of the United States, upon request of without further remuneration, in and to any improvement to the said invention; and to execute any papers by the essential to ASSIGNEE's full protection and title in the said invention.	the said nts, and he said
SIGNE	O on the date in	dicated aside my signatu	re:		
1)					
Name	: Moon Kee k	ML		Date	
	o 1				

3)	
Name: Kyung Sik HAN	Date
4) Name: <b>Keun Hwan CHOI</b>	***************************************
Name: Keun Hwan CHOI	Date
5)	
Name: Jae Yeon NOH	Date
5)	
Name: Jae Hwang YU	Date
7) .	
Name: Min Seak KIM	Date

# **ASSIGNMENT**

which	In considera is hereby ackno	tion of the premises and other	er good and va	aluable consideration in hand pai	d, the receipt and sufficiency o
	· <b>1)</b>	Moon Kee KIM	2)	Cheol Ho YIM	
	3)	Kyung Sik HAN	4)	Keun Hwan CHOI	
	5)	Jae Yeon NOH	6	Jae Hwang YU	
	7)	Min Scok KIM		x box if continued on page 2	
TEL!	ECOM CO blic of Kore	., LTD., having a pla a, its successors and ass	ce of busingns (herein	ion, hereby sells, assigns ness at <u>11 Euljiro, 2-ga</u> nafter designated "ASSIGN ed in 35 U.S.C. 100 in the	Jung-gu, Seoul 100-844 EE") the entire right, title
	SYSTEM A	ND METHOD FOR N	INIMIZI	NG SIGNAL INTERFER	ENCE BETWEEN
BF	ROADCAST	TING SIGNALS AND	COMMUN	ICATION SIGNALS WI	THIN LOCAL AREA
		AND APPAR	ATUS AP	PLIED TO THE SAME	
(a)	for which as United State	application for United States Patent Application No	es Letters Pa	tent was filed on; or	, and identified by
(b)	for which an	application for United States	Letters Patent	was executed on,	
all Uni continu Proper	ted States Letter rations-in-part ty to the said A that the attorned	ers Patent which may be gran thereof, and the right to all SSIGNEE, for its interest as ys of record in said application	ted therefore benefits unde ASSIGNEE, n shall hereaft	tates Commissioner of Patents a and any and all extensions, divis in the International Convention its successors, assigns and legal er act on behalf of said ASSIGNI ke interest, and to render all r	tions, reissues, continuations, or for the Protection of Industrial representatives, the undersigned EB;
ASSIG applica ASSIG	tion for and ob NEE, its succe tions for paten	taining original, divisional, re ssors, assigns and legal repre- it based thereon, growing ou ssors, assigns and legal repre-	issued or exte sentatives, and t of or related	nded Letters Patent of the United I without further remuneration, in I to the said invention; and to emed essential to ASSIGNEE's f	States, upon request of the said and to any improvements, and execute any papers by the said
SIGNE	D on the date i	ndicated aside my signature:			
				· r	
15					•
1) Name	e: Moon Kee	KTM		Date	

Name: Cheol Ho YIM

PATENT REEL: 027877 FRAME: 0308

Date

3)	
Name: Kyung Sik HAN	Date
4)	
Name: Keun Hwan CHOI	Date
5) Noll	(2(03/2012
Name: Jae Yeon NOH	Date
6)	•
Name: Jae Hwang YU	Date
7)	
Name: Min Seok KIM	Date

# **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,

	1)	Moon Kee KIM	2)	Cheol Ho YIM	
	3)	Kyung Sik HAN	4)	Keun Hwan CHOI	
	5)	Jae Yeon NOH	6)	Jae Hwang YU	
	7)	Min Seok KIM		x box if continued on page 2	
TEL Repu	ECOM CO	., LTD., having a placa, its successors and assi	e of busii gns (hereir	ion, hereby sells, assigns and these at 11 Euljiro, 2-ga, Jung-guafter designated "ASSIGNEE") the in 35 U.S.C. 100 in the invention	u, Seoul 100-844, ne entire right, title
	SYSTEM A	AND METHOD FOR M	INIMIZI	NG SIGNAL INTERFERENCE	BETWEEN
B	ROADCAST	ING SIGNALS AND C	OMMUN	ICATION SIGNALS WITHIN	LOCAL AREA
		AND APPARA	ATUS AP	PLIED TO THE SAME	
(a)	for which ar United States	n application for United State s Patent Application No.	s Letters Pat	ent was filed on; or	, and identified by
(b)	for which an	application for United States L	etters Patent	was executed on,	·
all Ur contir Prope agrees applic ASSI applic ASSI the in	atted States Letter try to the said A sthat the attorned AND the uncation for and obgness, its succeptations for paten GNEE, its succeptation hereby to	ers Patent which may be grant thereof, and the right to all be SSIGNEE, for its interest as A ys of record in said application andersigned hereby agrees to taining original, divisional, rei- assors, assigns and legal represent to based thereon, growing out assors, assigns and legal represent	ed therefore benefits under ASSIGNEE, shall hereaft transfer a lii ssued or exte entatives, and of or related	tates Commissioner of Patents and Trade and any and all extensions, divisions, reis refer the International Convention for the Fets successors, assigns and legal representer act on behalf of said ASSIGNEE; are interest, and to render all necessary need Letters Patent of the United States, used without further remuneration, in and to a did to the said invention; and to execute a semed essential to ASSIGNEE's full protections.	esues, continuations, or Protection of Industrial atives; the undersigned assistance in making upon request of the said any improvements, and any papers by the said
SIGN	LD on the date i	nateated aside my signature.			
	ne: <b>Moon Kee</b>	KIM		Date	
			_	<u> </u>	<u></u>
Nan	ne: Cheol Ho	YIM		Date	

3)	
Name: Kyung Sik HAN	Date
4)	12/03/20/2 Date
5)Name: Jae Yeon NOH	Date
6) Name: <b>Jae Hwang YU</b>	Date
7)Name: Min Seok KIM	Date

# **ASSIGNMENT**

which is		ledged, the undersigned,	-	dable consideration in har	para, the receipt mia surficiency of
•	, 1)	Moon Kee KIM	. 2)	Cheol Ho YIM	
	3)	Kyung Sik HAN	4)	Keun Hwan CHO	Ţ
	5)	Jae Yeon NOH	6)	Jae Hwang YU	
	7)	Min Seok KIM		x box if continued on pr	ge 2
TELE Repub and in	COM CO., lic of Korea, terest for the	LTD., having a paits successors and a United States of Am	place of busin assigns (hereina aerica as define	ess at <u>11 Euljiro, 2-</u> after designated "ASS d in 35 U.S.C. 100 in	igns and transfers unto SK ga. Jung-gu. Seoul 100-844. IGNEE") the entire right, title the invention entitled:
					FERENCE BETWEEN
BR	OADCASTI	NG SIGNALS AN	D COMMUNI	CATION SIGNALS	WITHIN LOCAL AREA
		AND APPA	ARATUS APP	LIED TO THE SAN	Œ
(a)	for which an a United States P	application for United States Application No	States Letters Pate	ent was filed on; or	, and identified by
(b)	for which an ap	plication for United Sta	tes Letters Patent	was executed on	
all Unit	ed States Letters ations-in-part the v to the said AS	Patent which may be gereof, and the right to SIGNEE, for its interest	granted therefore a all benefits under as ASSIGNEE, it	ind any and all extensions the International Conver	nts and Trademarks to issue any and divisions, reissues, continuations, or tion for the Protection of Industrial egal representatives; the undersigned IGNEE;
ASSIG applicat ASSIG	tion for and obtains NEE, its success	ining original, divisional ors, assigns and legal re based thereon, growing ors, assigns and legal re	l, reissued or exter presentatives, and	ided Letters Patent of the t without further remunerate to the said invention; an	all necessary assistance in making inited States, upon request of the said on, in and to any improvements, and to execute any papers by the said EE's full protection and title in and to
SIGNE	D on the date inc	licated aside my signatu	re:		
Name	:: Moon Kee K	IM		· I	Pate
			•		
2)	: Cheol Ho Y	TIM		·	Date
Name	: Cheor ito i	ELVA.			

**PATENT** 

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3)		
Name: Kyung Sik HAN	a	ate
4)	·	
Name: Keun Hwan CHOI	D	ate
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5)		
Name: Jae Yeon NOH	E	ate
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Name: Jae Hwang YU	· D	atc
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**PATENT** 

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