PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

Stylesheet Versi	on v1.1

SUBMISSION TYPE:	UBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYA	ANCE:		ASSIGNMENT		
CONVEYING PARTY DATA					
		Na	ame	Execution Date	
Honggi LEE				01/18/2013	
Dongsuk KANG				01/16/2013	
Hyungho KONG				01/16/2013	
RECEIVING PARTY DA	ATA				
Name:	Samsung Elect	tronics (Co., Ltd.		
Street Address:	129, Samsung-	-ro, Yeo	ongtong-gu		
City:	Suwon-si, Gye	onggi-d	0		
State/Country:	KOREA, REPU	JBLIC O	DF		
PROPERTY NUMBERS Total: 1 Property Type			Number		
Application Number:		137530	/		
CORRESPONDENCE	ATA				
Fax Number:	51622884	475			
			the fax attempt is unsuccessful.		
Phone: Email:	51622835 Genmail@		nlaw.com		
Correspondent Name:	Paul J. Fa		plaw.com		
Address Line 1:			Road, Suite 210 E		
Address Line 4:	Melville, N		DRK 11747		
ATTORNEY DOCKET NUMBER:			1398-556		
NAME OF SUBMITTER:			Paul J. Farrell		
Total Attachments: 6 source=ASSIGNMENT# source=ASSIGNMENT# source=ASSIGNMENT# source=ASSIGNMENT# source=ASSIGNMENT#	≉page2.tif ≉page3.tif ≉page4.tif ≉page5.tif				

January 29, 2013

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: Samsung Electronics Co., Ltd.

ADDRESS: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggl-do, 443-742, Republic of Korea

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: CASCADED BASE STATION APPARATUS AND OPERATION METHOD THEREOF

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no. 1398-556 (YPF201211-0020/US_DMC), or is more particularly identified as:

- x executed on even date herewith, or
- Serial No. ^{13/753,071} filed in the U.S. Patent & Trademark Office on _____, or
- executed on _____

.

and In and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-In-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said SAMSUNG ELECTRONICS CO., LTD., my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in sald Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assigned, and I hereby appoint as my, or our attorney, and authorize and request <u>Paul J. Farreli, Req. No. 33,494</u>, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Page 1 of 2

PATENT REEL: 029884 FRAME: 0226 And I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any Interference, Illigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(S)	Date Signed	<u>Witness(es)</u>
1) hous	(Seal) Jan. 18. 2013_	lupours
Honggi LEE 2) Dongsuk KANG	(Seal)	;
3)	(Seal)	

Hyungho KONG

Page 2 of 2

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PATENT REEL: 029884 FRAME: 0227

Docket No. 1398-556 (YPF201211-0020/US_DMC)

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: Samsung Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea ADDRESS:

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, tille and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

CASCADED BASE STATION APPARATUS AND OPERATION METHOD THEREOF TITLE:

Invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an atomey docket no. 1398-656 (YPF201211-0020/US_DMC), or is more particularly identified as x executed on even date herewith or January January

- January 29, 2013 Serial No. 13/753,071 filed in the U.S. Patent & Trademark Office on _____, or ۵
- executed on _

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations in part, reissued and re examined patents, and to any extensions thereof, said interactioning the critice own best of the batent when granted, to be held and enjoyed by said SAMSUNG ELECTBONICS CO. LTD, my Assigned its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND lifersby covenant and agree to sign and execute any further documents or instruments which may from time to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, dontinuation-in-part, relissue, re-exemination; in any emendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to Issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request Paul J. Farrel), Reg. No. 33,494, to insert on this Assignment any further identification or to complete such Identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Page 1 of 2

PATENT REEL: 029884 FRAME: 0228

And I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent And Hurner covenant that ASSIGNCE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR	<u>(S)</u>	Date Signed	<u>Witness(es)</u>	
1) Honggi LEE	(Seal))		
2) Dove Suk Dongsuk KA	KANG (Seal)	01/16/2013	Monz	—
3) Hyungho KC				
nyungnu nu				
	AMSUR	GELEC	TRINK	
	Ş	605517		
				Page 2 of 2
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	A. D.L. BU-DA. IND. 30. 701 (61 /9958		•	ATENT 84 FRAME: 0229

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Docket No. 1398-556 (YPF201211-0020/US_DMC)

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: | Samsung Electronics Co., Ltd.

ADDRESS: | 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: CASCADED BASE STATION APPARATUS AND OPERATION METHOD THEREOF

Invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no. 1398-556

- otherwise accompanies this Assignment or indicates an altorney docket no. 1398-556 (YPF201211-G020/US_DMC), or is more particularly identified as X executed on even date herewith or January 29, 2013
- Serial No. 13/753,071 filed in the U.S. Patent & Trademark Office on ______ or
- executed on _____

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations, in-part, reissued, and re-examined patents, and to any extension states of corrections, divisions, continuations, continuations, in-part, reissued, and re-examined patents, and to any extension states of corrections, divisions, continuations, continuations, in-part, reissued, and re-examined patents, and to any extension states of corrections, divisions, continuations, continuations, in-part, reissued, and re-examined patents, and to any extension of states the states of corrections, divisions, continuations, continuations, in-part, reissued, and re-examined patents, and enjoyed by Said SAMSUNG ELECTRONICS CO. LTD, my Assigned its, successions, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissing, re-examination in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request <u>Paul J. Farrell, Reg. No. 33,494</u>, to insert on this Assignment any further identification or to complete such Identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Page 1 of 2

PATENT REEL: 029884 FRAME: 0230

국왕 #201040842TEL원(Gichai P/L Lab.(나오퍼위크)++25420198 20130116140331

And if urther covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

