503513983 10/07/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3560609

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SOENGHUN KIM	08/24/2015
GERT JAN VAN LIESHOUT	08/18/2015
KYEONGIN JEONG	08/20/2015

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD		
Street Address:	129, SAMSUNG-RO		
Internal Address:	YEONGTONG-GU, SUWON-SI		
City:	GYEONGGI-DO		
State/Country:	KOREA, REPUBLIC OF		
Postal Code:	16677		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14782991

CORRESPONDENCE DATA

Fax Number: (972)628-3616

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

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 972-628-3600

Email: patents@munckwilson.com

Correspondent Name: DOCKET CLERK

Address Line 1: P.O. DRAWER 800889 Address Line 4: DALLAS, TEXAS 75380

ATTORNEY DOCKET NUMBER:	SAMS07-49019
NAME OF SUBMITTER:	WILLIAM A. MUNCK
SIGNATURE:	/William A. Munck/
DATE SIGNED:	10/07/2015

Total Attachments: 6

source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif

> **PATENT REEL: 036751 FRAME: 0177** 503513983



PATENT REEL: 036751 FRAME: 0178

ASSIGNMENT

WHEREAS, We, Soenghun Kim, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Gert Jan Van Lieshout, resident of Apeldoorn, Netherlands, citizen of the Netherlands, and Kyeongin Jeong, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA USING PLURALITY OF CARRIERS IN MOBILE COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application Serial No. __/____, filed on ____, said application having been executed concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck of Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all

1

	legal representatives to obtain and enforce proper
Date: 2015. 8,24	SOENGHUN KIM
Date:	GERT JAN VAN LIESHOUT
Date:	Kyeongin Jeong

divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said

ASSIGNMENT

WHEREAS, We, Soenghun Kim, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Gert Jan Van Lieshout, resident of Apeldoorn, Netherlands, citizen of the Netherlands, and Kyeongin Jeong, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA USING PLURALITY OF CARRIERS IN MOBILE COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application Serial No. __/_____, filed on _____, said application having been executed concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck of Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all

1

divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date:	
	SOENGHUN KIM
Date: 18 Angust 2e	115 <u>A</u>
J	GERT JAN VAN LIESHOUT
Date:	
	K YEONGIN JEONG

ASSIGNMENT

WHEREAS, We, Soenghun Kim, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Gert Jan Van Lieshout, resident of Apeldoorn, Netherlands, citizen of the Netherlands, and Kyeongin Jeong, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA USING PLURALITY OF CARRIERS IN MOBILE COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application Serial No. __/____, filed on ____, said application having been executed concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck of Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all

1

divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date:			
		SOENGHUN KIM	
Date:			
		GERT JAN VAN LIESHOUT	
Date:	15. 8.20	Bur	
		KYEONGIN JEONG	