PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4055540

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JINSOO CHOI	11/25/2014
SEUNGHEE HAN	11/17/2014
JINSAM KWAK	11/23/2014
YONGHO SEOK	11/11/2014
JEONGKI KIM	11/25/2014

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	150-721

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15266678

CORRESPONDENCE DATA

Fax Number: (202)496-7756

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: 2024967106

Email: mlaip@dentons.com **DENTONS US LLP Correspondent Name:** Address Line 1: 1900 K STREET NW

ATTORNEY DOCKET NO. -----Address Line 2:

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	8737.01070.US21
NAME OF SUBMITTER:	MARK R. KRESLOFF
SIGNATURE:	/Mark R. Kresloff#42,766/
DATE SIGNED:	09/16/2016

Total Attachments: 13

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Assignment of Application

WHEREAS, I (· · ·	Jinsoo CHOI, Seunghee HAN, Jinsam KWAK, Yongho SEOK and Jeongki KIM		
William Control of the Control of th	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			, respectively,
have invented certain	new and useful in	mprovements in:		
METHOD FOR TO OPERABLE IN P	OWER SAVING		ELESS COMMU	
for which an applicati	on for Letters Par	tent was executed	on	уууунуууу каналалалалалалалалалалалалалалалалалала
(Application No. 14	1/395306	, Filed	October 17, 2014	4), and

(Application No.	14/395306	, Filed	October 17, 2014), and
WHEREAS,	LG ELECTRONICS INC.	***************************************	4-annun-1	·
(hereinafter referred to as "ASSIGNEE") having a place of business at:				
20 Yeouido-dong,	Yeongdeungpo-gu, Seoul 150	0-721, Ko	rea	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

REEL: 039764 FRAME: 0920

KBK No. OPP-TZ-2013-0186-US-00

LG Ref: 13FCCM409US02

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 2014, 11,25	
	(Signature of Inventor)
	Jinsoo CHOI
Date	
	(Signature of Inventor)
	Seunghee HAN
Date:	
	(Signature of Inventor)
	Jinsam KWAK
Date:	
	(Signature of Inventor)
- W // ST	Yongho SEOK
Date: 2014. 11. 25	
	(Signature of Inventor)
	Jennoki KIM

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Assignment of Application

WHEREAS, I (WE)	Jinsoo CHOI, Seunghee HAN, Jins SEOK and Jeongki KIM	sam KWAK, Yongho
######################################		, respectively,
have invented certain new a	and useful improvements in:	
OPERABLE IN POWE	ISMITTING AND RECEIVING SIG IR SAVING MODE IN WIRELESS ISTEM, AND DEVICE THEREFOR	COMMUNICATION
for which an application for	Letters Patent was executed on	

(Application No.	14/395306	, Filed	October 17, 2014), and
WHEREAS,	LG ELECTRONICS INC.		**************************************	and promised for his principles aware
(hereinafter referred to as "ASSIGNEE") having a place of business at:				
20 Yeouido-dong,	Yeongdeungpo-gu, Seoul 15	0-721, K o	rea	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

REEL: 039764 FRAME: 0922

KBK No. OPP-TZ-2013-0186-US-00

LG Ref: 13FCCM409US02

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Date:		
Date 11/17/14	(Signature of Inventor) Jinsoo CHOI	
Date	(Signature of Inventor) Seunghee HAN	
Date:	63	
	(Signature of Inventor) Jinsam KWAK	
Date:		
	(Signature of Inventor) Yongho SEOK	
Date;		
	(Signature of Inventor)	

McKenna Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Assignment of Application

WHEREAS,	` '	HOI, Seunghee Ha d Jeongki KIM	AN, Jinsam KWA	K, Yongho
anakan kenandahan berapagan yangan aga anara ana yangan angan penangan kenangan kenangan kenangan kenangan ken	nannya an cuma nanana na manana di kamana na manana na manana na manana na manana na manana na manana na manan			, respectively,
have invented cert	ain new and useful in	mprovements in:		
OPERABLE II	OR TRANSMITTIN N POWER SAVING SYSTEM, AI cation for Letters Pa	G MODE IN WIR ND DEVICE THE	ELESS COMMU	
(Application No.	14/395306	, Filed	October 17, 2014), and
WHEREAS,	LG ELECTRONI	CS INC.	J.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(hereinafter referre	ed to as "ASSIGNEE	E") having a place (of business at:	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Korea

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

REEL: 039764 FRAME: 0924

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	
	(Signature of Inventor) Jinsoo CHOI
Date	
	(Signature of Inventor) Seunghee HAN
Date: 100 23,2014	
	(Signature of Inventor) Unisam KWAK
Date:	(Signature of Inventor)
	Yongho SEOK
Date:	
	(Signature of Inventor) Jeongki KIM

McKenna Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Assignment of Application

WHEREAS, I (WE)	Jinsoo CHOI, Seunghee HA SEOK and Jeongki KIM	N, Jinsam KWAK, Yongho
aanan 1999 1994 1994 1994 1994 1994 1994 199	Aurain 2000 200 200 200 200 200 200 200 200 2	, respectively,
have invented certain new a	and useful improvements in:	**************************************
METHOD FOR TRANSMITTING AND RECEIVING SIGNAL OF STATION OPERABLE IN POWER SAVING MODE IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR		
for which an application for	Letters Patent was executed or	1

(Application No.	14/395306	, Filed	October 17, 2014), and
WHEREAS,	IEREAS, LG ELECTRONICS INC.			
(hereinafter referred to as "ASSIGNEE") having a place of business at:				
20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Korea				

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

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KBK No. OPP-TZ-2013-0186-US-00

LG Ref: 13FCCM409US02

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Date;		
	(Signature of Inventor)	
	Jinsoo CHOI	
Date		
	(Signature of Inventor)	
	Scunghee HAN	
Date:	,	
	(Signature of Inventor)	
	Jinsam KWAK	
Date: 11/11/2014	\	
	(Signature of Inventor)	
	Yongho SEOK	
Date:		
	(Signature of Inventor)	
	Jeonaki KIM	

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Page 2 of 2

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD FOR TRANSMITTING AND RECEIVING SIGNAL OF STATION OPERABLE IN POWER SAVING MODE IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR
As the belo	w named inventor, I hereby declare that:
This declar is directed t	I The attached application or
The above-i	identified application was made or authorized to be made by me.
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.
I hereby act by fine or in	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 oprisonment of not more than five (5) years, or both.
	WARNING:
contribute to (other than to support a petitioners/s USPTO. Po application patent. Fur referenced	pplicant is cautioned to avoid submitting personal information in documents filed in a patent application that may originally theft. Personal information such as social security numbers, bank account numbers, or credit card numbers a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO applicant or an application. If this type of personal information is included in documents submitted to the USPTO, applicants should consider redacting such personal information from the documents before submitting them to the etitioner/applicant is advised that the record of a patent application is available to the public after publication of the (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a rithermore, the record from an abandoned application may also be available to the public if the application is in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms submitted for payment purposes are not retained in the application file and therefore are not publicly available.
LEGAL N	NAME OF INVENTOR
•	Jinsoo CHOI Date (Optional): >0 14. 11.25
	plication data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. tional PTO/SB/AIA01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD FOR TRANSMITTING AND RECEIVING SIGNAL OF STATION OPERABLE IN POWER SAVING MODE IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR		
As the belo	w named inventor, I hereby declare that:		
	This declaration The attached application, or Indicated to:		
	United States application or PCT International application number 14/395,306 filed on October 17, 2014		
The above-	identified application was made or authorized to be made by me.		
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.		
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
	WARNING:		
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identify theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card, authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.			
LEGALI	NAME OF INVENTOR		
(nventor Signatur	Seunghee HAN Date (Optional): ////		
	oplication data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form, itional PTO/SB/AIA01 form for each additional inventor.		

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	METHOD FOR TRANSMITTING AND RECEIVING SIGNAL OF STATION OPERABLE IN POWER SAVING MODE IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR	
As the belo	w named inventor, I hereby declare that:	
This declar is directed t		
The above-	identified application was made or authorized to be made by me.	
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby act by fine or in	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 aprisonment of not more than five (5) years, or both.	
	WARNING:	
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.		
LEGAL N	NAME OF INVENTOR	
	Jinsam KWAK Dete (Optional): Nov 23, 20(4	
Note: An ap Use an add	plication data the (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Itional PTO/AIA01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 17 and 37 CFR 1.83. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD FOR TRANSMITTING AND RECEIVING SIGNAL OF STATION OPERABLE IN POWER SAVING MODE IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR		
As the belo	As the below named inventor, I hereby declare that:		
This declaration The attached application, or			
	United States application or PCT international application number 14/395,306 filed on October 17, 2014		
The above-	identified application was made or authorized to be made by me.		
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.		
I hereby act by fine or in	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 aprisonment of not more than five (5) years, or both.		
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LEGAL	NAME OF INVENTOR		
	Yongho SEOK Date (Optional): 11/11/2014		
Signatur			
Note: An ap Use an addi	plication data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. itional PTO/SB/AIA01 form for each additional inventor.		

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	METHOD FOR TRANSMITTING AND RECEIVING SIGNAL OF STATION OPERABLE IN POWER SAVING MODE IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR	
As the below named inventor, I hereby declare that:		
This declar is directed t	The attached application or	
The above-	identified application was made or authorized to be made by me.	
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.	
	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 aprisonment of not more than five (5) years, or both.	
	WARNING:	
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LEGAL N	IAME OF INVENTOR	
	Jeongki KIM Date (Optional): 2014-11, 25	
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