504575513 10/02/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYANGSUN YOU	08/17/2017
HANBYUL SEO	08/14/2017
YUNJUNG YI	08/17/2017

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	15563109		

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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.

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Email: Derya.Sevinc@bskb.com, mailroom@bskb.com
Correspondent Name: BIRCH STEWART KOLASCH & BIRCH, LLP
Address Line 1: 8110 GATEHOUSE ROAD, SUITE 100E
Address Line 4: FALLS CHURCH, VIRGINIA 22042-0747

ATTORNEY DOCKET NUMBER:	5438-0901PUS1
NAME OF SUBMITTER:	DERYA SEVINC
SIGNATURE:	/Derya Sevinc/
DATE SIGNED:	09/30/2017

Total Attachments: 4

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PATENT 504575513 REEL: 043756 FRAME: 0223

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No.	15/563,109	Filed _	September 29, 2017
Insert Name(s)	***(Given Name	FAMILY NAME (ALL CA	PS))***
of Inventor(s)	WHEREAS, YOU, Hyangsun; SE undersigned) has (have) invented		njung (hereinafter designated as the nprovements in:
Insert Title of Invention	METHOD AND WIRELESS	DEVICE FOR REC	CEIVING PDSCH
	for which an application for Letter undersigned (except in the case of a		tates of America has been executed by the
Insert Date of Signing of	on August 14, 2017 and A	August 17, 2017	; and
Application Insert Name of Assignee	WHEREAS, LG ELECTRONICS	INC.	
Insert Address of Assignee	of 128, Yeoui-daero, Yeongdeung	gpo-gu Seoul 07336, Rep	public of Korea
CHECK BOX IF APPROPRIATE		nt, title and interest in and	ereinafter designated as the Assignee) is to said invention and in and to any Letters America and
i arronale	paid, the receipt of which is here undersigned has (have) sold, assistransfer unto said Assignee the fu America, its territories, dependence any and all Letters Patent(s) whi	by acknowledged, and o gned and transferred, an Il and exclusive right to ies and possessions and a ch may be granted there	tollars (\$10.00) to the undersigned in hand ther good and valuable consideration, the d by these presents does sell, assign and the said invention in the United States of the entire right, title and interest in and to efor in the United States of America, its bove is designated, in any and all foreign
	and to any and all divisions, reiss term or terms for which the same m		ersions and extensions thereof for the full
		e applications thereof an	d connection with this application and any d also to execute separate assignments in y or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s)

Page 1 of 2

to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	,		Name of Inventor	
				(signature) YOU, Hyangsun
Date _	8/14/2017	ı	Name of Inventor	mor
				(signature) SEO, Hanbyul
Date _		,	Name of Inventor	
				(signature) YI, Yunjung

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No.	15/563,109	September 29, 2017 Filed			
Insert Name(s)	***(Given Name FAMILY NAME (ALL CAPS))***				
of Inventor(s)	WHEREAS, YOU, Hyangsun; SEO, Hanbyul and YI, Yunjung (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:				
Insert Title	METHOD AND WIRELESS DE	VICE FOR RECEIVING PDSCH			
of Invention	for which an application for Letters Patundersigned (except in the case of a prov	ent of the United States of America has been executed by the isional application)			
Insert Date	on August 14, 2017 and Aug	ust 17, 2017 ; and			
of Signing of Application Insert Name of Assignee	WHEREAS, LG ELECTRONICS INC				
Insert Address of Assignee	of 128, Yeoui-daero, Yeongdeungpo-g	a Seoul 07336, Republic of Korea			
снеск вох	its heirs, successors, legal representati desirous of acquiring the entire right, titl Patent(s) that may be granted therefor in x in any foreign countries.	ves and assigns (hereinafter designated as the Assignee) is e and interest in and to said invention and in and to any Letters the United States of America and			
IF APPROPRIATE	paid, the receipt of which is hereby ac undersigned has (have) sold, assigned transfer unto said Assignee the full and America, its territories, dependencies an any and all Letters Patent(s) which m	of the sum of Ten Dollars (\$10.00) to the undersigned in hand knowledged, and other good and valuable consideration, the and transferred, and by these presents does sell, assign and I exclusive right to the said invention in the United States of ad possessions and the entire right, title and interest in and to ay be granted therefor in the United States of America, its is, and if the box above is designated, in any and all foreign			
	and to any and all divisions, reissues, term or terms for which the same may be	continuations, conversions and extensions thereof for the full granted.			

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s)

Page 1 of 2

connection with such applications as the Assignee may deem necessary or expedient.

to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _	7.8.M	,	Name of Inventor	WOLL III	R
				(signature) YOU, Hyangsun	
Date _	2 .4	,	Name of Inventor	(signature) SEO, Hanbyul	-
Date _	2017.8.17	٠,	Name of Inventor	(signature) YI. Yuniung	gr-

RECORDED: 10/02/2017