505725979 10/16/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5772791

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JI SUNG KIM	08/12/2019
WEON BAE KIM	08/12/2019
KYOUNG RO KO	08/12/2019
JOON KEUN LEE	08/12/2019
KUM HWAN CHA	08/12/2019
JAE CHEOL GWAG	08/13/2019
TAE HYUN KIM	08/12/2019

RECEIVING PARTY DATA

Name:	LS CABLE & SYSTEM LTD.
Street Address:	(HOGYE-DONG) 127, LS-RO, DONGAN-GU
City:	ANYANG-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	14119

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16486048

CORRESPONDENCE DATA

Fax Number:(312)827-8185Correspondence 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:3123721121

	0.20/21.121
Email:	chicago.patents@klgates.com
Correspondent Name:	K&L GATES LLP
Address Line 1:	PO BOX 1135
Address Line 4:	CHICAGO, ILLINOIS 60690

ATTORNEY DOCKET NUMBER:	0313071.00031
NAME OF SUBMITTER:	MATTHEW S. DICKE
SIGNATURE:	/Matthew S. Dicke/
DATE SIGNED:	10/16/2019

Total Attachments: 7

source=0313071-00031-assignment#page1.tif source=0313071-00031-assignment#page2.tif source=0313071-00031-assignment#page3.tif source=0313071-00031-assignment#page4.tif source=0313071-00031-assignment#page6.tif source=0313071-00031-assignment#page7.tif

Title of Invention	POWER	CABLE	Attorney Docket No. 0313071.00029		
As the below n	amed inve	entor, I hereby declare that:			
This declaratio is directed to:	n 🛛	The attached application, or			
		United States application or PCT international application number	-		
		filed on			
The above-ide	ntified app	plication was made or authorized to be made by me.			
I believe that I	am the ori	iginal inventor or an original joint inventor of a claimed invention in t	the application.		
existing under	the laws o ngan-gu, A	BLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporation du of Republic of Korea and having its principal office and place of bus Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to acquir	iness at (Hogye-dong)		
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.					
request of ASS ASSIGNEE's,	I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.				
I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.					
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.					
LEGAL NAME C	OF INVENT	OR			
Inventor: <u>Ji S</u>	ung KIM	Date (Optional): 12 . A	ng. 2019		
Signature:	/	V			

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

Title of Invention	POWER CABLE	Attorney Docket No. 0313071.00029		
As the below n	amed inventor, I hereby declare that:			
This declaratio is directed to:	n 🛛 The attached application, or			
	United States application or PCT international application number			
	filed on			
The above-ide	ntified application was made or authorized to be made by me.			
I believe that I	am the original inventor or an original joint inventor of a claimed invention in t	he application.		
existing under	S, LS CABLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporation duly the laws of Republic of Korea and having its principal office and place of busi- ligan-gu, Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to acquire srein;	ness at (Hogye-dong)		
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.				
I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.				
I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.				
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.				
LEGAL NAME C	FINVENTOR			
Inventor: We	m Bae KIM Date (Optional): 12. A	ug. 2019		
Signature:		Q.		

PATENT REEL: 050737 FRAME: 0051

Title of Invention	POWER CABLE	Attorney Docket No. 0313071.00029			
As the below n	amed inventor, I hereby declare that:				
This declaratio is directed to:	The attached application, or				
	United States application or PCT international application number				
	filed on				
The above-ide	tified application was made or authorized to be made by me.				
I believe that I	am the original inventor or an original joint inventor of a claimed invention in t	he application.			
existing under	S, LS CABLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporation duly he laws of Republic of Korea and having its principal office and place of busi gan-gu, Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to acquire rein;	ness at (Hogye-dong)			
receipt and suf over unto ASSI interest to said invention as de fully and entired made, including therefor, when including, but n and substitution Patent for said the Internationa hereby authoriz ASSIGNEE, for	NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.				
ASSIGNEE's, i	I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.				
and legal repre	I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.				
I hereby acknow by fine or impris	vledge that any willful false statement made in this declaration is punishable is onment of not more than five (5) years, or both.	under 18 U.S.C. 1001			
LEGAL NAME O	INVENTOR				
Inventor: Kyoi	Ing Ro KO Date (Optional): 12, 1	Jug, 2019			
Signature:	NOV				

PATENT REEL: 050737 FRAME: 0052

Title of Invention	POWER	CABLE			Attorney Docket No. 0313071.00029
As the below n	amed inve	entor, I hereby declare that:			
This declaratio is directed to:	This declaration 🛛 The attached application, or is directed to:				
		United States application or PCT int	ernational applicat	tion number	
		filed on	<u></u>		
The above-ide	ntified app	lication was made or authorized to b	e made by me.		
I believe that I	am the ori	ginal inventor or an original joint inve	ntor of a claimed i	nvention in t	he application.
existing under	the laws o igan-gu, A	BLE & SYSTEM LTD. (hereinafter "A f Republic of Korea and having its pr nyang-si, Gyeonggi-do 14119 Reput	incipal office and p	place of busi	ness at (Hogye-dong)
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.					
I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.					
I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.					
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.					
LEGAL NAME OF INVENTOR					
Inventor: Joo	n Keun LEI		Date (Optional):	12. Aug. 2	2019
Signature:		Joon			

Title of Invention	POWER	CABLE	Attorney Docket No. 0313071.00029	
As the below n	amed inve	entor, I hereby declare that:		
This declaratio is directed to:	n 🛛	The attached application, or		
		United States application or PCT international application number		
		filed on		
The above-ider	ntified app	plication was made or authorized to be made by me.		
I believe that I	am the ori	iginal inventor or an original joint inventor of a claimed invention in t	he application.	
existing under	the laws o Igan-gu, A	BLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporation dul of Republic of Korea and having its principal office and place of busi Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to acquir	ness at (Hogye-dong)	
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.				
I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.				
I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.				
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.				
LEGAL NAME C	F INVENT	OR		
Inventor: Kum Hwan CHA Date (Optional): 12 Aug. 2019				
Signature:				

POWER	CABLE	Attorney Docket No. 0313071.00029		
amed inve	entor, I hereby declare that:			
This declaration 🛛 The attached application, or is directed to:				
	United States application or PCT international application number			
	filed on			
ntified app	lication was made or authorized to be made by me.			
am the ori	iginal inventor or an original joint inventor of a claimed invention in t	the application.		
the laws o 1gan-gu, A	of Republic of Korea and having its principal office and place of busi	iness at (Hogye-dong)		
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives.				
I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.				
I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.				
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.				
Inventor: Jae Cheol GWAG Date (Optional): 13. Ang >01				
Signature:				
	amed inve amed inve n amed inve n invention am the ori AS, LS CA the laws of am the ori AS, LS CA the laws of am the ori AS, LS CA the laws of am the ori AS, LS CA the laws of invention scribed in IGNEE, its invention al Conven invention al Convention al Conventio	United States application or PCT international application number filed on		

Title of Invention	POWER CABLE	Attorney Docket No. 0313071.00029
As the below named inventor, I hereby declare that:		
This declaration I The attached application, or is directed to:		
	United States application or PCT international application number	
	filed on	
The above-identified application was made or authorized to be made by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
AND WHEREAS, LS CABLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporation duly organized and existing under the laws of Republic of Korea and having its principal office and place of business at (Hogye-dong) 127 LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to acquire the entire right, title, and interest therein;		
receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, to be held and enjoyed by me, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including, without limitation, all rights to the aforesaid application and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said inventions in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent; and I hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.		
I hereby agree to execute any papers, provide any information and testify in any interference or litigation at the request of ASSIGNEE, its successors, assigns and legal representatives, when deemed essential to ASSIGNEE's, its successors', assigns' and legal representatives' full enjoyment, protection, enforcement and title in and to such invention and rights hereby transferred.		
I furthermore agree upon request of said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, to execute any and all papers desired by said ASSIGNEE, its successors, assigns and legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE, its successors, assigns and legal representatives.		
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.		
LEGAL NAME C	DF INVENTOR	
Inventor: Tae	e Hyun KIM Date (Optional): (ユ、A)	ug. 2019
Signature:		

RECORDED: 10/16/2019