PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8165481

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNG JI KWON	01/03/2022
YOUNG HO KIM	01/03/2022
JUNG NYUN KIM	01/03/2022
SEOK HYUN NAM	01/03/2022
WON YOUNG KIM	01/03/2022
SEON U BANG	01/03/2022

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:	17625536		

CORRESPONDENCE DATA

Fax Number: (312)827-8185

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: 3123721121

Email: chicago.patents@klgates.com

K&L GATES LLP Correspondent Name: Address Line 1: PO BOX 1135

Address Line 4: CHICAGO, ILLINOIS 60690

ATTORNEY DOCKET NUMBER:	0313071.00067
NAME OF SUBMITTER:	MATTHEW S. DICKE
SIGNATURE:	/Matthew S. Dicke/
DATE SIGNED:	09/13/2023

Total Attachments: 6

PATENT REEL: 064893 FRAME: 0173

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Title of Invention	IOT-BASED CABLE USED IN CABLE MANAGEMENT SYSTEM	Attorney Docket No. 0313071.00067 (OP200122-PCUS)				
As the below	v named inventor, I hereby declare that:					
This declara	The state of the s					
	United States application or PCT international application nu	ımber				
	filed on					
The above-	dentified application was made or authorized to be made by me.					
I believe the	at I am the original inventor or an original joint inventor of a claimed invention	on in the application.				
under the la	REAS, LS CABLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporation ws of Republic of Korea and having its principal office and place of business. Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to acquire the	ss at (Hogye-dong) 127 LS-ro,				
and sufficie ASSIGNEE invention in described it as the same without limit together wit divisions, or application, and all fore basis for the Commission	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.						
further rem representat	e agree upon request of said ASSIGNEE, its successors, assigns and lega uneration, to execute any and all papers desired by said ASSIGNEE, its su ives, for the filing and granting of foreign applications and the perfecting of , its successors, assigns and legal representatives.	ccessors, assigns and legal				
	knowledge that any willful false statement made in this declaration is punished someont of not more than five (5) years, or both	hable under 18 U.S.C. 1001 by				
LEGAL NAM	E OF INVENTOR					
Inventor:	Jung Ji KWON Date: c	3,0/. 2022				
Signature:	- 3 forts					

Title of Invention	IOT-BASE SYSTEM	D CABLE USED IN CABLE MA	NAGEMENT	Altorney Docket No. 0313071.00067 (OP200122-PCUS)		
				(0F200122-F003)		
As the below	w named inve	ntor, I hereby declare that:				
This declara		The attached application, or				
		United States application or PCT inte	ernational application numb	oer <u> </u>		
		filed on	filed on			
The above-	identified appl	ication was made or authorized to be	made by me.			
I believe tha	at I am the orio	ginal inventor or an original joint inven	tor of a claimed invention i	n the application.		
under the la	ws of Republi	BLE & SYSTEM LTD. (hereinafter "AS ic of Korea and having its principal off yeonggi-do 14119 Republic of Korea,	ice and place of business	at (Hogye-dong) 127 LS-ro,		
and sufficie: ASSIGNEE invention in described ir as the same without limit together wit divisions, co application, and all forei basis for the Commission	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.					
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		ot any willful false statement made in too the statement made in the statement	this declaration is punishab	ole under 18 U.S.C. 1001 by		
LEGAL NAME OF INVENTOR						
Inventor:	Young Ho KIM		Date: 03.	0/ 2022		
Signature:	1					

Title of Invention	IOT-BASE SYSTEM	D CABLE USED IN CABLE MANAGEMENT	Attorney Docket No. 0313071.00067 (OP200122-PCUS)		
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		filed on			
The above-	identified appl	ication was made or authorized to be made by me.			
t believe tha	at I am the orig	ginal inventor or an original joint inventor of a claimed invent	ion in the application.		
under the la	ws of Republ	BLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporati ic of Korea and having its principal office and place of busing yeonggi-do 14119 Republic of Korea, desires to acquire the	ess at (Hogye-dong) 127 LS-ro,		
and sufficie ASSIGNEE invention in described ir as the same without limit together wit divisions, or application, and all fore basis for the Commission	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.				
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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 NAM	E OF INVENTO	DR .			
Inventor:	Jung Nyun KIM	Date:	07.01. 200		
Signature:	KI	on Jung Hyun			

Title of Invention	IOT-I		D CABLE USED IN CABLE MA	Attomey Docket No. 0313071.00067 (OP200122-PCUS)		
As the below	w name	ed inve	ntor, I hereby declare that:			
This declara			The attached application, or			
			United States application or PCT into	ernational applicatio	n number	
			filed on			
The above-i	identifie	ed appl	cation was made or authorized to be	made by me.		
I believe tha	at I am 1	the orig	inal inventor or an original joint inven	tor of a claimed inve	ention in the application.	
under the la	ws of F	Republi	BLE & SYSTEM LTD. (hereinafter "AS c of Korea and having its principal off yeonggi-do 14119 Republic of Korea	fice and place of bus	iness at (Hogye-dong) 127 LS-ro,	
and sufficient ASSIGNEE invention in described in as the same without limit together with divisions, coapplication, and all foreigns for the Commission	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 A its successo	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.					
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			t any willful false statement made in t ot more than five (5) years, or both.	this declaration is pu	nishable under 18 U.S.C. 1001 by	
LEGAL NAME OF INVENTOR						
Inventor:	Seok Hy	yun NAI	Л	Date:	January 3, 2022	
Signature:	<u> </u>					

Title of Invention	IOT-BASI SYSTEM	ED CABLE USED IN CABLE N	Attorney Docket No. 0313071.00067 (OP200122-PCUS)		
As the belo	w named inv	entor, I hereby declare that:		·	
This declar	******	The attached application, or			
		United States application or PCT	international application	number	
		filed on			
The above-	identified app	olication was made or authorized to	be made by me.	•	
I believe that	at I am the or	iginal inventor or an original joint in	ventor of a claimed inver	ntion in the application.	
existing und	fer the laws of Dongan-gu, A	BLE & SYSTEM LTD. (hereinafter of Republic of Korea and having its Anyang-si, Gyeonggi-do 14119 Rep	principal office and place	of business at (Hogye-dong)	
receipt and over unto A interest to s invention as fully and en made, inclutherefor, whincluding, b and substitute Patent for s the Internat hereby auth	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 filling 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.				
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I hereby acl by fine or in	knowledge the	eat any willful false statement made of not more than five (5) years, or b	in this declaration is pun oth	ishable under 18 U.S.C. 1001	
LEGAL NAM	E OF INVENT	OR			
Inventor	Won Young Ki	M 44	Date:	2022 - 1 - 3	
Signature:					

Title of Invention	IOT-BASE SYSTEM	ED CABLE USED IN CABLE M	IANAGEMENT	Attorney Docket No. 0313071.00067 (OP200122-PCUS)		
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The above-	identified app	lication was made or authorized to	be made by me.			
I believe tha	at I am the ori	ginal inventor or an original joint inv	entor of a claimed inve	ntion in the application.		
existing und	ler the laws o Dongan-gu, A	BLE & SYSTEM LTD. (hereinafter " If Republic of Korea and having its p Anyang-si, Gyeonggi-do 14119 Rep	orincipal office and plac	e of business at (Hogye-dong)		
receipt and over unto A interest to s invention as fully and en made, inclu therefor, wh including, b and substitu Patent for s the Internation hereby auth	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.					
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LEGAL NAM	E OF INVENT	OR				
Inventor:	Seon U BANG		Date: 2	022.01.03		
Signature:	2 th	γ				

RECORDED: 09/13/2023