# 506340495 11/05/2020 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6387248

		NEW ASSIGNMENT	
NATURE OF CONVEYAN	ICE:	ASSIGNMENT	
CONVEYING PARTY DA	ATA		
		Name	Execution Date
CHANG EUN CHO			10/22/2020
YOUNG HOON YANG			10/22/2020
CHANG SUK KIM			10/27/2020
UN KYOO PARK			10/22/2020
RECEIVING PARTY DA	ГА		
Name:         LS CABLE & SYSTEM LTD.			
Street Address:	(HOGYE-	DONG) 127, LS-RO, DONGAN-GU	
City:	ANYANG	-SI, GYEONGGI-DO	
State/Country:	KOREA, I	REPUBLIC OF	
Postal Code:	14119		
PROPERTY NUMBERS Property Type	Total: 1	Number	
Application Number:	17	087860	
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CORRESPONDENCE D	ΑΤΑ		
Fax Number:	•	12)827-8185	
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			cessful, it will be sent a US Mail
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<i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1:	provided; i 31 ch K& PC CH	if that is unsuccessful, it will be sent via 23721121 icago.patents@klgates.com &L GATES LLP D BOX 1135 HICAGO, ILLINOIS 60690 0313071.00053 MATTHEW S. DICKE /Matthew S. Dicke/	a US Mail.
using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: SIGNATURE:	provided; i 31 ch K& PC CH	if that is unsuccessful, it will be sent via         23721121         icago.patents@klgates.com         &L GATES LLP         D BOX 1135         HICAGO, ILLINOIS 60690         0313071.00053         MATTHEW S. DICKE         /Matthew S. Dicke/         11/05/2020	a US Mail.

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### 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	SELF-WF	AP ELECTROMAG	NETIC WAVE SHIELE	) TUBE	Attorney Docket No. 0313071.00053 (OPP-2019-0027-US)
As the below	v named in.	/entor, I hereby declare t	hat:	ł	
This declara is directed to		The attached applicati	01, 01		
		United States applicat	ion or PCT international a	pplication n	umber
		filed on			
The above-i	dentified ap	plication was made or at	uthorized to be made by m	ne.	
I believe tha	t I am the o	riginal inventor or an orig	inal joint inventor of a clai	med invent	ion in the application.
existing und	er the laws ( )ongan-gu, ,	of Republic of Korea and	hereinafter "ASSIGNEE"), I having its principal office 14119 Republic of Korea	and place	ion duly organized and of business at (Hogye-dong) acquire the entire right, title,
receipt and s over unto AS interest to sa invention as fully and enti made, includ therefor, whe including, bu and substitut Patent for sa the Internation hereby author ASSIGNEE,	sufficiency o SSIGNEE, it aid invention described it rely as the s ling, without en issued to it not limited tions of or fo id invention onal Conven orizes and re for its intere	If which are hereby ackn s successors, assigns and in the United States of a n the aforesaid application same would have been h limitation, all rights to the gether with all improvem into, divisions, continuation or said application, and a s in any and all foreign of tion on the basis for the equests the Commission test as ASSIGNEE, its suc-	nd legal representatives, t America and all foreign co on, to be held and enjoyed held and enjoyed by me h- ise aforesaid application ar isents thereon and betterm ons, continuations-in-part, il foreign rights including t countries and the right to c aforesaid application for t er of Patents to issue all L coessors, assigns and leg	I, assign, au he full and untries, inc I by me, its ad this assi d to any Ur ents thereo reissues ar he right to r laim priority United State effers Pate al represen	nd transfer, and hereby set exclusive right, title and luding, without limitation, said successors and assigns, as gnment and sale not been nited States Letters Patent if, all related applications nd reexaminations thereof make application for Letters y as to the filing date under es Letters Patent; and I ent issuing therefrom to tatives.
ASSIGNEE's	SSIGNEE, it s, its succes	ts successors, assigns a	ny information and testify nd legal representatives, representatives' full enjoy erred.	when deem	ference or litigation at the led essential to action, enforcement and title
and legal rep	er remunera resentative:	ition, to execute any and	ing of foreign applications	ASSIGNE	al representatives, and E, its successors, assigns rfecting of title thereto in said
I hereby ackr by fine or imp	iowledge th arisonment r	at any willful false staten of not more than five (5)	nent made in this declarat years, or both.	ion is punis	hable under 18 U.S.C. 1001
LEGAL NAME	OF INVENT	OR			
Inventor: Ch	nang Eun CH	10_1	Date:		2010 10-22
Signature:		Æ			

PATENT REEL: 054288 FRAME: 0160

COMBINED ASSIGNMENT AND DECLARATION Page 2

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

	SELF-WF	KAP ELECTROMAG	NETIC WAVE SHIELD TI	JBE	Attorney Docket No. 0313071.00053 (OPP-2019-0027-US)
As the belo	w named inv	rentor, i hereby declare	that:	£	
This declar is directed t		The attached applica	tion, or		
		United States applica	tion or PCT international appli	cation nu	imber
		filed on			
The above-	identiñed app	plication was made or a	uthorized to be made by me.		
I believe that	at I am the or	riginal inventor or an ori	ginal joint inventor of a claimer	inventic	on in the application.
existing und	ier the laws ( Dongan-gu, /	of Republic of Korea an	(hereinafter "ASSIGNEE"), a c of having its principal office and of 14119 Republic of Korea, der	i place o	f business at (Hoove-dong)
over unto Al interest to s invention as fully and ent made, including, bu and substitu Patent for sa the Internatii hereby auth	SSIGNEE, it aid invention described ir tirely as the s ding, without en issued to ut not limited tions of or fo aid invention onal Conven orizes and re for its intere	s successors, assigns a t in the United States of in the aforesaid applicat same would have been t limitation, all rights to t gether with all improver to, divisions, continuat or said application, and is in any and all foreign ation on the basis for the equests the Commissio part as ASSIGNEE, its si	nowledged. I do hereby sell, as and legal representatives, the f 'America and all foreign countr ion, to be held and enjoyed by held and enjoyed by me had th he aforesaid application and to ments thereon and betterments ions, continuations-in-part, rels all foreign rights including the r countries and the right to claim e aforesaid application for Units ner of Patents to issue all Lette uccessors, assigns and legal re	ull and e ies, inclu- me, its s his assig any Uni- thereof, sues and ight to m priority ed States ars Pater	xclusive right, title and uding, without limitation, said uccessors and assigns, as nment and sale not been ited States Leiters Patent , all related applications d reexaminations thereof hake application for Letters as to the filing date under s Letters Patent; and I it issuing therefrom to
Roonginee,	ee to every		· · · · · ·		auves.
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I hereby agr request of A ASSIGNEE <sup>1</sup> in and to sur I furthermore without furth and legal rep ASSIGNEE. I hereby ack by fine or im	SSIGNEE, it s, its succes ch invention e agree upor er remunera presentatives its successo nowledge th	ts successors, assigns sors', assigns' and lega and rights hereby trans n request of said ASSIG tion, to execute any an s, for the filing and gran ors, assigns and legal n or assigns and legal n iat any willful false state of not more than five (5	any information and testify in a and legal representatives, whe il representatives' full enjoymer ferred. SNEE, its successors, assigns d all papers desired by said AS itting of foreign applications and epresentatives.	n deeme nt, protec and lega SSIGNEE i the per	erence or litigation at the ed essential to ction, enforcement and title I representatives, and E, its successors, assigns fecting of title thereto in said

PATENT REEL: 054288 FRAME: 0161

COMBINED ASSIGNMENT AND DECLARATION

Page 3

#### 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	SELF-WF	VAP ELECTROMAGNETIC WAVE SHIELD TUBE	Attorney Docket No. 8313071.00053 (OPP-2019-0027-US)
As the belo	w named in.	/entor. I hereby declare that:	
This declar is directed I		The attached application, pr	
		United States application or PCT international application n	umber
		filed on	
The above-	identified ap	plication was made or authorized to be made by me.	
I believe the	at I am the o	riginal inventor or an original joint inventor of a claimed invent	ion in the application.
existing unit	der the laws. Dongan-gu,	ABLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corporati of Republic of Korea and having its principal office and place Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to	of business at (Hoove-doord)
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 Internat hereby auth ASSIGNEE	sufficiency of SSIGNEE, it add inventions the source of the ding, without en issued to ut not limited ut not limited utions of or fi- add invention ional Conver- ional Conver- ional conver- ional sufficience of the source of t	consideration of One Dollar (\$1.00) and other good and value of which are hereby acknowledged. I do hereby sell, assign, at is successors, assigns and legal representatives, the full and in in the United States of America and all foreign countries, including in the aforesaid application, to be held and enjoyed by me, its same would have been held and enjoyed by me had this assis t limitation, all rights to the aforesaid application and to any U ogether with all improvements thereon and betterments thereou t to, divisions, continuations, continuations-in-part, reissues at or said application, and all foreign rights including the right to it is in any and all foreign countries and the right to daim priority inton on the basis for the aforesaid application for United State equests the Commissioner of Patents to issue all Letters Pate est as ASSIGNEE, its successors, assigns and legal represen-	nd transfer, and hereby set exclusive right, title and luding, without limitation, said successors and assigns, as griment and sale not been nited States Letters Patent if, all related applications ind reexaminations thereof make application for Letters y as to the filing date under es Letters Patent; and I ent issuing therefrom to itatives.
ASSIGNEE	ASSIGNEE, I S, its succes	ie any papers, provide any information and testify in any inter its successors, assigns and legal representatives, when deen ssors', assigns' and legal representatives' full enjoyment, prote and rights hereby transferred.	ed essential to
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without furth and legal re	ner remunen presentative	n request of said ASSIGNEE, its successors, assigns and leg ation, to execute any and all papers desired by said ASSIGNE is, for the filing and granting of foreign applications and the pe ors, assigns and legal representatives.	al representatives, and E. its survessors, assigns
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PATENT REEL: 054288 FRAME: 0162

COMBINED ASSIGNMENT AND DECLARATION Page 4

## 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	SELF-W	RAP ELECTROMAGNETIC WAVE SHIELD TUBE	Atlorney Docket No. 0313071.00053 (OPP-2019-0027-US)
As the belo	w named in	ventor, I hereby declare that:	
This declar is directed t		The attached application, or	
		United States application or PCT international application	number
		filed on	
The above-	identified at	plication was made or authorized to be made by me.	
I believe the	at I am the c	riginal inventor or an original joint inventor of a claimed inver	tion in the application.
existing und	ter the laws Dongan-gu,	ABLE & SYSTEM LTD. (hereinafter "ASSIGNEE"), a corpora of Republic of Korea and having its principal office and place Anyang-si, Gyeonggi-do 14119 Republic of Korea, desires to	of husiness at (Hnove-doom)
receipt and over unto A interest to s invention as fully and ent made, inclu therefor, wh including, bi and substitu Patent for sa the Internati hereby auth ASSIGNEE,	sufficiency of SSIGNEE, i aid invention described i lirely as the ding, withou en issued to it not limited tions of or f aid inventior onal Conver- orizes and r for its inter-	consideration of One Dollar (\$1.00) and other good and value of which are hereby acknowledged. I do hereby sell, assign, a ts successors, assigns and legal representatives, the full and in in the United States of America and all foreign countries, in in the aforesaid application, to be held and enjoyed by me, its same would have been held and enjoyed by me had this assist t limitation, all rights to the aforesaid application and to any U ogether with all improvements thereon and betterments there d to, divisions, continuations, continuations-in-part, reissues a or said application, and all foreign rights including the right to its in any and all foreign countries and the right to claim priori intion on the basis for the aforesaid application for United Sta requests the Commissioner of Patents to issue all Letters Pat est as ASSIGNEE, its successors, assigns and legal represe	and transfer, and hereby set exclusive right, title and cluding, without limitation, said successors and assigns, as ignment and sale not been inited States Letters Patent of, all related applications and reexaminations thereof make application for Letters ty as to the filing date under tes Letters Patent; and I ent issuing therefrom to intatives.
ASSIGNEE'	SSIGNEE, I s, its succes	te any papers, provide any information and testify in any inte its successors, assigns and legal representatives, when deer asors', assigns' and legal representatives' full enjoyment, pro- and rights hereby transferred.	ned essential to
I furthermore	er remunen	n request of said ASSIGNEE, its successors, assigns and le ation, to execute any and all papers desired by said ASSIGN	nal conceptatives and
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PATENT REEL: 054288 FRAME: 0163

**RECORDED: 11/05/2020**