505695151 09/27/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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KEVIN DANIEL HIMES	11/26/2018
DERRICK BLAKE ANDREWS	01/29/2019

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Street Address:	HIGH TECH CAMPUS 5
City:	EINDHOVEN
State/Country:	NETHERLANDS
Postal Code:	5656 AE

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16498560

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NAME OF SUBMITTER:	MICHAEL W. HAAS
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DATE SIGNED:	09/27/2019

Total Attachments: 3

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PATENT 505695151 REEL: 050512 FRAME: 0658

having a place of business at High Tech Can	th I/we acknowledge receipt, I/we as a below-name re and exclusive right, title, and interest in the follow npus 5, 5656 AE, Eindhoven, the Netherlands, its so lectively "the Assignee") my/our invention for which	ving to Koninklijke Philips N.V.,
is executed concurrently herewith		
was filed on ***, having a United States A	pplication No. ***	
	rnational Application No. PCT/EP2018/056918,	
divisions, continuations, continuations-in-part	all other United States, foreign and international pate therefrom including, but not limited to, any and all p re-examinations, reissues, and extensions thereof e, and interest in and to any and all patents granted	provisionals, non-provisionals
I/We authorize and request that the Patent O and all Letters Patent when granted, solely to representatives.	ffice officials in the United States and in any and all the Assignee(s), for its sole use, and that of its suc	foreign countries to issue any cessors, assigns, and legal
proceedings including patent prosecution acti	e the Assignee to enjoy the foregoing right, title, and , l/we agree to execute all papers, take all rightful o ons and infringement actions, and do all other such ing and maintaining patents on the foregoing invent	aths, testify in all legal
I/We certify that I/we have the full right to con-	vey the above rights.	
As a below-named Inventor, I hereby declare and that I am the original Inventor or an original	that the above-identified application was made or a al joint Inventor of a claimed invention in the applica	authorized to be made by me, ation.
I hereby acknowledge that any willful false statement of not more than five (5) years,	atement made in this declaration is punishable unde or both.	or 18 U.S.C. 1001 by fine or
Date: Signature:		Accionarilavantas
	Kevin Daniel HIMES	Assignor/Inventor
Date: Signature:	Derrick Blake ANDREWS	Assignor/Inventor
Date: 15 1/2 Signature:	-70 <i>17-47-91</i> /	Accionarilarentes

Robert Earl HIEBER

PATENT REEL: 050512 FRAME: 0659

hereby sell, and assign, and transfer the entire ar having a place of business at High Tech Campus	re acknowledge receipt, i/we as a below-named At nd exclusive right, title, and interest in the following 5, 5656 AE, Eindhoven, the Netherlands, its succ rely "the Assignee") my/our invention for which an	to Koninklijke Philips N.V., essors, assigns, and legal
is executed concurrently herewith		
was filed on ***, having a United States Applic	cation No. ***	
igwedge was filed on 2018-Mar-20, having an internal	onal Application No. PCT/EP2018/056918,	
therewith, based thereon, or claiming priority ther divisions, continuations, continuations-in-part, re-	her United States, foreign and international patent efrom including, but not limited to, any and all prove examinations, reissues, and extensions thereof, a nd interest in and to any and all patents granted or	visionals, non-provisionals nd the right to claim priority
	officials in the United States and in any and all for Assignee(s), for its sole use, and that of its succe	
Upon request at the expense of the Assignee, I/w proceedings including patent prosecution actions	e Assignee to enjoy the foregoing right, title, and in we agree to execute all papers, take all rightful oath and infringement actions, and do all other such and and maintaining patents on the foregoing invention	ns, testify in all legal cts which may be
I/We certify that I/we have the full right to convey	the above rights.	
	t the above-identified application was made or aut oint Inventor of a claimed invention in the applicati	
I hereby acknowledge that any willful false stater imprisonment of not more than five (5) years, or	nent made in this declaration is punishable under both.	18 U.S.C. 1001 by fine or
Date: 11-26-20/8 Signature:	Ken Dand Jims, Tevin Daniel HIMES	Assignor/Inventor
Date: Signature:		Assignor/Inventor

Derrick Blake ANDREWS

Robert Earl HIEBER

Signature:

Date:

PATENT REEL: 050512 FRAME: 0660

Assignor/Inventor

U.S.A. Sole/Joint

ASSIGNMENT & DECLARATION Docket No. 2017P01659WOUS

hereby sell, and assign, and tra having a place of business at H	insfer the entire ligh Tech Camp	I/we acknowledge receipt, I/we as a below-named A and exclusive right, title, and interest in the following ous 5, 5656 AE, Eindhoven, the Netherlands, its succ actively "the Assignee") my/our invention for which an	g to Koninklijke Philips N.V., essors, assigns, and legal
☐ is executed concurrently he☐ was filed on ***, having a U☐ was filed on 2018-Mar-20, I	nited States Ap	plication No. *** national Application No. PCT/EP2018/056918,	
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		ice officials in the United States and in any and all fo the Assignee(s), for its sole use, and that of its succe	
Upon request at the expense or proceedings including patent proceedings in patent proceedings in patent patent proceedings in patent proceedings in patent pate	f the Assignee, rosecution actic	the Assignee to enjoy the foregoing right, title, and in the Assignee to execute all papers, take all rightful oatlings and infringement actions, and do all other such any and maintaining patents on the foregoing invention	hs, testify in all legal cts which may be
I/We certify that I/we have the f	ull right to conv	ey the above rights.	
		that the above-identified application was made or aut al joint Inventor of a claimed invention in the applicati	·
I hereby acknowledge that any imprisonment of not more than		tement made in this declaration is punishable under or both.	18 U.S.C. 1001 by fine or
Date:	Signature:		Assignor/Inventor
	4	Keyin Paniel HIMES /	-
Date: <u>[-29 2019</u>	Signature:	Derrick Blake ANDREWS	Assignor/Inventor
Date:	Signature:		Assignor/Inventor

Robert Earl HIEBER

PATENT REEL: 050512 FRAME: 0661