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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5567142

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAINER HILBIG	11/27/2018
ACHIM GERHARD ROLF KOERBER	11/28/2018

RECEIVING PARTY DATA

Name:	KONINKLIJKE PHILIPS N.V.	
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City:	EINDHOVEN	
State/Country:	NETHERLANDS	
Postal Code:	5656 AE	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16468698

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NAME OF SUBMITTER:	MICHAEL W. HAAS
SIGNATURE:	/Michael W. Haas/
DATE SIGNED:	06/12/2019

Total Attachments: 2

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> **PATENT REEL: 049439 FRAME: 0889** 505520337

For good and valuable consideral hereby sell, and assign, and trans having a place of business at High representatives, including any nor manufactures.	sfer the entire h Tech Campo	and exclusive right, title, and inter us 5, 5656 AE, Eindhoven, the Ne	rest in the following otherlands, its succe	to Koninklijke Philips N.V., essors, assigns, and legal
is executed concurrently here was filed on ***, having a Unit		dination him ***		
was filed on 2017-Dec-14, ha	, ,		17/082848,	
and all rights in and to said applic therewith, based thereon, or clain divisions, continuations, continual thereto, and the entire and exclus	ning priority the tions-in-part, r	erefrom including, but not limited i e-examinations, reissues, and ext	to, any and all prov tensions thereof, an	isionals, non-provisionals d the right to claim priority
I/We authorize and request that the and all Letters Patent when grant representatives.			•	-
I/We will provide my/our cooperat Upon request at the expense of the proceedings including patent pros necessary, desirable, or convenient thereto in the Assignee.	ne Assignee, l secution actior	/we agree to execute all papers, t as and infringement actions, and o	ake all rightful cath do all other such ac	s, testify in all legal ts which may be
I/We certify that I/we have the full	right to conve	by the above rights.		
As a below-named inventor, I her and that I am the original inventor	•	, .		4
I hereby acknowledge that any wi imprisonment of not more than fiv			punishable under 1	8 U.S.C. 1001 by fine or
Date:	Signature:		t	Assignor/Inventor
Date: <u>27 - Nov-2018</u>	Signature:	Achim Gerhard Rolf KOERBER	7	Assignor/Inventor

hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N.V., having a place of business at High Tech Campus 5, 5656 AE, Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:
is executed concurrently herewith
was filed on ***, having a United States Application No. ***
was filed on 2017-Dec-14, having an International Application No. PCT/EP2017/082848,
and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.
i/We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assigns, and legal representatives.
I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecution actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.
I/We certify that I/we have the full right to convey the above rights.
As a below-named Inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original Inventor or an original joint Inventor of a claimed invention in the application.
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.
Date: 2018 Nov.27 Signature: Live Zylov , Assignor/Inventor

Signature:

RECORDED: 06/12/2019

Rainer HILBIG

PATENT REEL: 049439 FRAME: 0891

Assignor/Inventor