505788618 11/22/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

sion v1.1 EPAS ID: PAT5835446

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KARL ANTONIN BZDUSEK	04/24/2017
PRASHANT KUMAR	05/25/2017
TODD MCNUTT	11/19/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15531862

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ATTORNEY DOCKET NUMBER: 2014P01089WOUS

NAME OF SUBMITTER: PATTI DEMICHELE

PATENT 505788618 REEL: 051090 FRAME: 0916

SIGNATURE:	/Patti DeMichele/		
DATE SIGNED: 11/22/2019			
Total Attachments: 3			
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PATENT REEL: 051090 FRAME: 0917

Date

and assign, and trans a place of business a	sfer the entire and exclusive r at High Tech Campus 5,5656	ight, title, and interest in the following AE, Eindhoven, the Netherlands, its suvely "the Assignee") my/our invention	to Koninklijke Philips N.V., having ccessors, assigns, and legal
is executed conc	urrently herewith		
was executed by	me/us on		
$\hfill \square$ was filed on	, ha	ving a Serial No	
was filed on. 03	Dec 2015, having an Internati	ional Application No. PCT/IB2015/05	9327,
therewith, based the provisionals division	reon, or claiming priority then is, continuations, continuations.	her United States, foreign and internation refrom including, but not limited to, any ans-in-part, re-examinations, reissues, are right, title, and interest in and to any a	y and all provisionals, non- nd extensions thereof, and the right to
	atent when granted, solely to	officials in the United States and in any the Assignee(s), for its sole use, and the	
extent. Upon requestlegal proceedings in	st at the expense of the Assign cluding patent prosecution ac , or convenient for securing a	he Assignee to enjoy the foregoing righnee, I/we agree to execute all papers, tations and infringement actions, and dond maintaining patents on the foregoin	ke all rightful oaths, testify in all all other such acts which may be
I/We certify that I/w	ve have the full right to conve	y the above rights.	
4/24/2017 Date	(sign name here) (print name here)	7El hley My S Karl Antonin BZDUSEK	, Assignor
Date	(print name here)	Prashant KUMAR	, Assignor

Page 1 of 1

Todd MCNUTT

(print name here)

, Assignor

•		ckilowieage receipt, i we as a below-la	
_		title, and interest in the following to K	
-		Eindhoven, the Netherlands, its success	
representatives, including	g any nominees (collectively	"the Assignee") my/our invention for v	vhich an application:
		ÿ.	
is executed concurrer	ntly herewith		
was executed by me/	us on		
was filed on	, having	ga Serial No	
		l Application No. PCT/IB2015/059327	
	, 0	**	
and all rights in and to sa	aid application, and all other	United States, foreign and international	patent applications associated
		om including, but not limited to, any and	
		n-part, re-examinations, reissues, and ex	
		ght, title, and interest in and to any and	
applications.	id the outle and everagive in	sitty sitty, and intologous in this to only mine	har parente Branch and annual
applications.			
I/We authorize and requ	est that the Patent Office offi	cials in the United States and in any and	d all foreign countries to issue
-		Assignee(s), for its sole use, and that o	
legal representatives.	it which granton, sololy to the	Assigned(s), for its sold use, and time o	in bacconding applying and
regar representatives.			
T/337	an amountion to amobile the	Assignee to enjoy the foregoing right, tit	tle and interest to the fullest
			
	-	I/we agree to execute all papers, take a	
		as and infringement actions, and do all o	
• •	convenient for securing and i	maintaining patents on the foregoing in	vention or for perfecting title
thereto in the Assignee.			
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I/We certify that I/we ha	eve the full right to convey th	e above rights.	
:	(sign name here)	3	
Date	(print name here)	Karl Antonin BZDUSEK	, Assignor
	PRASHANT KUMAR	\$ 66} ~~\$7	
Date 25 MAY 2017	(print name here)	Prashant KUMAR	, Assignor
		×	
Date	(print name here)	Todd MCNUTT	, Assignor

Page 1 of 1

PATENT REEL: 051090 FRAME: 0919

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sel	
and assign, and transfer the entire and exclusive right, title, and interest in the following to The Johns Hopkins University	у,
having a place of business at 3400 N. Charles Street, Baltimore, MD 21218, its successors, assigns, and legal	
representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:	

is executed concurrently herewith				
was executed by me/us on	. 65 655 655 655 656 657 658 657 657 657 657 657	reserves serves:		
was filed on				.> >
was filed on. 03 Dec 2015, having an In	ternational Applic	ation No. PCT /	B2015/059327,	

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.

11/19/2019 Date	Todd McNv++ (print name here)	Todd MCNUTT		, Assignor
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