504997147 07/10/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDER GOVYADINOV	10/13/2015
ERIC D. TORNIAINEN	10/13/2015
PAVEL KORNILOVICH	10/13/2015
DAVID P. MARKEL	10/13/2015

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.	
Street Address:	11445 Compaq Center Drive West	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77070	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15763402

CORRESPONDENCE DATA

Fax Number: (970)778-4063

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.

(541)715-8443 Phone: Email: ipa.mail@hp.com

Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35 INTELLECTUAL PROPERTY Address Line 2:

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84904019
NAME OF SUBMITTER:	ANGELA D. BOLTJES
SIGNATURE:	/Angela D. Boltjes/
DATE SIGNED:	07/10/2018

Total Attachments: 4

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> **PATENT** REEL: 046309 FRAME: 0344 504997147

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> PATENT REEL: 046309 FRAME: 0345

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

Rev 8/2014 (Assignment)

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RECORD ID:	84346402

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARO DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPDC, its successors and assigns, the entire right, little and interest, including the right of priority, in, to and under an application for Patent entitled:

			sign and transfer to HPDC, its successors and rity, in, to and under an application for Patern
FLUIDIC CHANNELS FO	R MICROFLUIDIC DEVICE	S	
Filing Date: 25 Sep 2015	; }	Applicatí	ion No.: PCT/US2015/052362
divisionals, and renewals	of and substitutes for said a	application for sa	I all continuations, continuations-in-part (C-I-P's) aid Patent, and any and all other Patent of any eissues, or reexaminations, or extensions of said
by HPDC, its successors, a Patent respectively may be	assigns, nominees or legal r	epresentatives, to ded, as fully and	for Patent in any country, to be held and enjoyed to the full end of the term or terms for which said entirely as the same would have been held and
executed and will not execu- time a request is made, and perfect the title to said inve- nominees or legal represen- said invention(s) or improve papers, to execute all disc rightful paths and declarati- and legal representatives to	ute any agreement in conflict d without undue delay, execu- ntion(s) or improvement(s), s- statives, and I/we agree to co- ement(s), said application and claimers and divisionals, cor- ons, and generally to do event to obtain and enforce, for its of deall countries provided the	herewith, and I/w te and deliver all aid application ar ammunicate to HP d said Patent, to atinuations, C-I-P' arything possible r their own benefit	re interest herein assigned, and that I/we have no ve further covenant and agree that I/we will, each such papers as may be necessary or desirable to desire the said Patent, to HPDC, its successors, assigns PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawfurs, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees it, proper patent protection for said invention(s) out may be incurred by me/us in lending such
applications as aforesaid, t	o issue to HPDC, as assignent(s) which may be issued	se of the entire ri	or countries whose duty it is to issue patents or ght, title and interest, any and all Patent for said or as a result of the application aforesaid, in
			the filing date and application number of said bove, as soon as the same shall have been made
IN WITNESS WHEREC	DF, I/we hereunto set my/c	our hand(s) and s	seal(s):
AGOVYA,	don	13	-0d-2015
Inventor's Signature			Date
Alexander	Govyadinov	**	
First/Middle Name	Last Name		
Inventor's Signature			Date .
Erik D.	Torniainen		
First/Middle Name	Last Name		

PATENT REEL: 046309 FRAME: 0346

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT	APPL	JCA	TION
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RECORD ID:	84346402

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent entitled:

assigns, the entire right, tit entitled:	ie and interest, including t	ue uğur or brio	Rty, IR, to and united an appropriate to the term
FLUIDIC CHANNELS FOR	MICROFLUIDIC DEVICES	3	
Filing Date: 25 Sep 2015		Applicat	ion No.: PCT/US2015/052362
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by HPDC, its successors, a Potent respectively may be	Colored Desprise OF 1000 18	apresentatives. I fed, as fully and	for Patent in any country, to be held and enjoyed to the full end of the term or terms for which said I entirely as the same would have been held and
executed and will not executime a request is made, and perfect the title to said invest nominees or legal represent said invention(s) or improve papers, to execute all discrightful oaths and declarationand legal representatives to improvement(s) in any an cooperation and assistance	tie any agreement in conflict is without undue delay, execution(s) or improvement(s), statives, and t/we agree to coment(s), said application an laimers and divisionals, corons, and generally to do exit obtain and enforce, for its of all countries provided there paid by HPDC;	nerewith, and the send deliver all and deliver all and application and ammunicate to High and all and	ire interest herein assigned, and that I/we have not we further covenant and agree that I/we will, each is such papers as may be necessary or desirable to and said Patent, to HPDC, its successors, assigns, PDC, or to its nominee, all known facts respecting a testify in any legal proceedings, to sign all lawful proceedings, to sign all lawful proceedings, to make all a to aid HPDC, its successors, assigns, nominees affit, proper patent protection for said invention(s) or sich may be incurred by me/us in lending such
- dissings as aforegoid t	o issue to HPDC, as assign nt(s) which may be issued	se of the shife	or countries whose duty it is to issue patents on right, title and interest, any and all Patent for said on or as a result of the application aforesaid, in
I/we further authorize application for Patent, now known to them.	and direct the attorneys of identified by the Record ID a	f record to inse and title set forth	ort the filing date and application number of said above, as soon as the same shall have been made
IN WITNESS WHERE	OF, I/we hereunto set my/	our hand(s) an	d seal(s):
Inventor's Signature			Date
Alexander	Govyadinov		
First/Middle Name	Last Name		
All Form	, , , , , , , , , , , , , , , , , , ,		10/13/2015
Inventor's Signature			Date
Erik D.	Tomiainen		_
First/Middie Name	Last Name		
Rev 8/2014 (Assignment)		Page 1 of 2	

PATENT REEL: 046309 FRAME: 0347 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80526	RE:	CORD ID: 84346402
C. Marine	SSIGNMENT OF PATENT APPL	ICATION (cont.)
(IW)	· · · · · · · · · · · · · · · · · · ·	October 13, 2015
Inventor's Signature		Date
Pavel	Komilovich	
First/Middle Name	Last Name	
Inventor's Signature		Date
David P.	Markel	_
First/Middle Name	Last Nume	
Inventor's Signature		Date
First/Middle Name	Last Name	u de la companya de
inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	

Page 2 of 2

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PATENT APPLICATION

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ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature		Date
Pavel	Kornilovich	
First/Middle Name	Last Name	***************************************
Bank C	lour	- 10/13/2015
Inventor's Signature		Date /
David P.	Markel	
First/Middle Name	Last Name	
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First/Middle Name	Last Name	
Inventor's Signature	***************************************	Date
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First/Middle Name	Last Name	
Inventor's Signature	***************************************	Date
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First/Middle Name	Last Name	
Inventor's Signature	***************************************	Date
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First/Middle Name	Last Name	

Page 2 of 2

Rev 5/2014 (Assignment)

RECORDED: 07/10/2018