504553440 09/19/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHARLES M. SANTORI	04/28/2015
ALEXANDER GOVYADINOV	04/28/2015

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:	15546917		

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.

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

Correspondent Name: HP INC.

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

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84647998
NAME OF SUBMITTER:	MICHAEL KRAFT
SIGNATURE:	/Michael Kraft/
DATE SIGNED:	09/19/2017

Total Attachments: 2

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> **PATENT** REEL: 043621 FRAME: 0086 504553440

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

PATENT	APPL	ICATION

RECORD ID:	84170352
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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

Rev 8/2014 (Assignment)

subsidiaries and affiliates, ag	ree to assign and transfe	and hereby assign and transfer to HPDC, its successors and ne right of priority, in, to and under an application for Patent
OPTICAL SPECTROMETER	3.	
Filing Date:		Application No.:
divisionals, and renewals of	and substitutes for said a	in, and any and all continuations, continuations-in-part (C-I-P's), oplication for said Patent, and any and all other Patent of any fore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, asi	signs, nominees or legal re ranted, reissued or extend	in my/our name for Patent in any country, to be held and enjoyed presentatives, to the full end of the term or terms for which said ed, as fully and entirely as the same would have been held and sen made;
executed and will not execute time a request is made, and w perfect the title to said inventinominees or legal represental said invention(s) or improvem papers, to execute all disclarightful oaths and declaration and legal representatives to o improvement(s) in any and cooperation and assistance at AND I/we hereby author applications as aforesaid, to its perfect the time of time of the time of t	any agreement in conflict in the conflict in t	convey the entire interest herein assigned, and that I/we have not nerewith, and I/we further covenant and agree that I/we will, each and deliver all such papers as may be necessary or desirable to id application and said Patent, to HPDC, its successors, assigns, municate to HPDC, or to its nominee, all known facts respecting said Patent, to testify in any legal proceedings, to sign all lawful inuations, C-I-P's, reissue and foreign applications, to make all ything possible to aid HPDC, its successors, assigns, nominees their own benefit, proper patent protection for said invention(s) or expenses which may be incurred by me/us in lending such of any country or countries whose duty it is to issue patents on a of the entire right, title and interest, any and all Patent for said and granted on or as a result of the application aforesaid, in
		record to insert the filing date and application number of said If title set forth above, as soon as the same shall have been made
IN WITNESS WHEREOF	, I/we hereunto set my/o	ur hand(s) and seal(s):
- Overland	l Santo	4/28/15
Inventor's Signature	***************************************	Date
Charles M.	Santori	
First/Middle Name	Last Name	
Inventor's Signature		Date
Alexander	Govyadinov	
First/Middle Name	Last Name	

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RECORD ID:	84170352

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:

entitled:	title and interest, including the ne	int or priority, at, to and under an application for Faterit
OPTICAL SPECTROME	TER	
Filing Date:		Application No.:
divisionals, and renewals	of and substitutes for said applica	nd any and all continuations, continuations-in-part (C-I-P's), ition for said Patent, and any and all other Patent of any and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, Patent respectively may t	assigns, nominees or legal represe	v/our name for Patent in any country, to be held and enjoyed entatives, to the full end of the term or terms for which said is fully and entirely as the same would have been held and made;
executed and will not exe time a request is made, at perfect the title to said inv nominees or legal repress said invention(s) or impro papers, to execute all di- rightful oaths and declara and legal representatives	cute any agreement in conflict herewind without undue delay, execute and rention(s) or improvement(s), said apentatives, and I/we agree to communivement(s), said application and said sclaimers and divisionals, continuations, and generally to do everything to obtain and enforce, for its or their and all countries provided the expending without the expending the expending and all countries provided the expending without the expending and all countries provided the expending without the expending the expending without the exp	ey the entire interest herein assigned, and that I/we have not //th, and I/we further covenant and agree that I/we will, each deliver all such papers as may be necessary or desirable to plication and said Patent, to HPDC, its successors, assigns, icate to HPDC, or to its nominee, all known facts respecting Patent, to testify in any legal proceedings, to sign all lawful ions, C-I-P's, reissue and foreign applications, to make all g possible to aid HPDC, its successors, assigns, nominees own benefit, proper patent protection for said invention(s) or enses which may be incurred by me/us in lending such
applications as aforesaid,	to issue to HPDC, as assignee of t lent(s) which may be issued and g	ny country or countries whose duty it is to issue patents on the entire right, title and interest, any and all Patent for said granted on or as a result of the application aforesaid, in
I/we further authoriz application for Patent, now known to them.	e and direct the attorneys of recor v identified by the Record ID and title	d to insert the filing date and application number of said set forth above, as soon as the same shall have been made
IN WITNESS WHER	EOF, I/we hereunto set my/our ha	nd(s) and seal(s):
Inventor's Signature		Date
Charles M.	Santori	••
First/Middle Name	Last Name A Govy o Joseph	
Inventor's Signature		Date
Alexander	Govyadinov	
First/Middle Name	Last Name	
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RECORDED: 09/19/2017