504807932 03/07/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4854665

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JANET CHEN	07/10/2015
CHENG LI	07/10/2015
MARCO FIORENTINO	07/15/2015
RAYMOND G BEAUSOLEIL	07/10/2015

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:	15745709

CORRESPONDENCE DATA

Fax Number:

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: (970) 898-7472

Email: hpe.ip.mail@hpe.com

Correspondent Name: HEWLETT PACKARD ENTERPRISE
Address Line 1: 3404 E. HARMONY ROAD MS 79
Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	90531137
NAME OF SUBMITTER:	BE HENRY
SIGNATURE:	/Be Henry/
DATE SIGNED:	03/07/2018

Total Attachments: 4

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	ASSIGNMENT O	F PATENT APPLICATION
and in furtherance Limited Partnership subsidiaries and affi	of my/our obligations to HEWI. having its principal place of tillates, agree to assign and transf	ble consideration, the receipt of which is hereby acknowledged. ETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas business in Houston, Texas, (hereinafter HPDC), and to its ar and hereby assign and transfer to HPDC, its successors and the right of priority, in, to and under an application for Patent
RING-RESONATO	R MODULATION OF AN OPTICA	L SIGNAL
Filing Date:	January 17, 2018	Application No.:15/745709
divisionals, and rend	swals of and substitutes for said	ein, and any and all continuations, continuations-in-part (C-I-P'a) application for said Patent, and any and all other Patent of any refore; and any reissues, or reexaminations, or extensions of said
by HPDC, its success Patent respectively r	isors, assigns, nominees or legal i	s in my/our name for Patent in any country, to be held and enjoyed epresentatives, to the full end of the term or terms for which said ded, as fully and entirely as the same would have been held and been made;
executed and will not time a request is man perfect the title to sal nominees or legal re said invention(s) or it papers, to execute rightful oaths and de and legal representa improvement(s) in a	t execute any agreement in conflict de, and without undue delay, execu- id invention(s) or improvement(s), s presentatives, and t/we agree to co improvement(s), said application ar all disclaimers and divisionals, con- idarations, and generally to do evi- tives to obtain and enforce, for its o	o convey the entire interest herein assigned, and that I/we have no herewith, and I/we further covenant and agree that I/we will, each te and deliver all such papers as may be necessary or desirable to aid application and said Patent, to HPDC, its successors, assigns, immunicate to HPDC, or to its nominee, all known facts respecting disaid Patent, to testify in any legal proceedings, to sign all lawful attinuations, C-I-P's, reissue and foreign applications, to make all arything possible to aid HPDC, its successors, assigns, nominees in their own benefit, proper patent protection for said invention(s) or a expenses which may be incurred by me/us in lending such
applications as afore invention(s) or impre	said, to issue to HPDC, as assign	I of any country or countries whose duty it is to issue patents on se 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 nd title set forth above, as soon as the same shall have been made
IN WITNESS W	HEREOF, I/we hereunto set my/c	ur hand(s) and seal(s):
Janet Chen	O ATRIO X GASCADO CANTO CONTRATA CANTO DO DOS ANOMO CANTO CANTO ARCO CANTO CANTO CANTO CANTO CANTO CAN	7408015
Inventor's Signature	200.000	7/10/2015 Date
Janet	Chen	
First/Middle Name	Last Name	
Inventor's Signature		Date
Cheng	U	
First/Middle Name	Last Name	
Rev 8/2014 (Assignment)	F	age 1 of 2

HEVV.ETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mall Stop 35 Fort Collins, Colorado 80528

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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 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 antitled.

entitled:			b and under an application for Paten
RING-RESO	NATOR MODULATION O	F AN OPTICAL SIGN	AL
Filing Date:	January 17, 2018	Application No.:	15/745709
divisionals, and re	enewals of and substitutes for sa	aid application for said Paten	nuations, continuations-in-part (C-I-P's) t, and any and all other Patent of an or reexaminations, or extensions of sak
by HPDC, its suc- Patent respectivel	cessors, assigns, nominees or leg	al representatives, to the full tended, as fully and entirely a	nt in any country, to be held and enjoyed end of the term or terms for which sak as the same would have been held and
executed and will time a request is r perfect the title to nominees or legal said invention(s) of papers, to execut rightful oaths and and legal represer improvement(s) in cooperation and a AND tiwe he applications as af- invention(s) or in	not execute any agreement in cornade, and without undue delay, ex said invention(s) or improvemently representatives, and I/we agree to improvement(s), said application e all disclaimers and divisionals, declarations, and generally to do neatives to obtain and enforce, for in any and all countries provided saistance are paid by HPDC; reby authorize and request the of oresaid, to issue to HPDC, as ass	ifflict herewith, and I/we further recute and deliver all such paps), said application and said P to communicate to HPDC, or to and said Patent, to testify in continuations, C-I-P's, reissueverything possible to aid Hills or their own benefit, proper I the expenses which may I ficial of any country or countrignee of the entire right, title	therein assigned, and that I/we have no covenant and agree that I/we will, each ers as may be necessary or desirable to atent, to HPDC, its successors, assigns to its nominee, all known facts respecting any legal proceedings, to sign all lawfue and foreign applications, to make all PDC, its successors, assigns, nominees patent protection for said invention(s) obe incurred by me/us in lending such less whose duty it is to issue patents or and interest, any and all Patent for sak result of the application aforesaid, in
I/we further :	authorize and direct the attorney		g date and application number of sak soon as the same shall have been made
IN WITNESS	WHEREOF, I/we hereunto set n	ny/our hand(s) and seal(s):	
Inventor's Signature		Date	
Jánei	Chen		
First/Middle Name	Last Name	······································	
Chens /	, 2		10/07/15
Inventor's Signature		Date	
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First/Middle Name	Last Name		
Rev 8/2014 (Assignment)		Page 1 of 2	

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Haimony Road Mail Stop 35

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PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84262607
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Inventor's Signature		7/A Date	1/2/15
	من (20 0	» 1910	
Marco First/Middle Hame	Fiorentino Last Name		
Inventia's Signature		Oate	
Raymond G	Beausoleil		
First/Middle Name	Last Nume	***************************************	
inventor's Signature		Date	
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inventor's Signature		Date	
First/Middle Name	Last Name	***************************************	
nventor's Signature		Date	
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inventor's Signature		Date	
Prst/Middle Name	Last Name		

Page 2 of 2

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PATENT APPLICATION

84262607

RECORD ID:

	ASSIGNMENT OF PATENT API	PLICATION (cont.)
Inventor's Signature		Date
Marco	Fiorentino	
First/Middle Name	Last Name	
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Inventor's Signature		Data
Raymond G	Beausoleil	
First/Middle Name	Last Name	
Inventor's Signature		Date
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Inventor's Signature		
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Rev 8/2014 (Assignment)	Page 2 of 2	

PATENT REEL: 045130 FRAME: 0298

RECORDED: 03/07/2018