505131242 10/08/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5178004

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SUBMISSION TYPE:	NEW ASSIGNMENT			
NATURE OF CONVEYANCE: ASSIGNMENT				
CONVEYING PARTY DA	ATA			
		Name		Execution Date
MARIA NATALIA RUSSI	-VIGOY	A		10/25/2016
MICHAEL C. BARTHA				10/24/2016
DIMITRE MEHANDJIYS	KY			10/24/2016
ZHENG CAO				10/25/2016
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Name:	Hewlet	t-Packard Development Company, I	L.P.	
Street Address:	11445	Compaq Center Drive West		
City:	Housto	n		
State/Country:	TEXAS	6		
Postal Code:	77070			
PROPERTY NUMBERS	Total: 1			
Property Type		Number		
Application Number:		16079137		
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Address Line 2:INTELLECTUAL PROPERTYAddress Line 4:FORT COLLINS, COLORADO 80528				
		84006400		
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NAME OF SUBMITTER:	JOHN E. NEMAZI			
SIGNATURE:			/John E. Nemazi/	
DATE SIGNED:	10/08/2018			
Total Attachments: 4	od Appig	nment#page1 tif		
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> PATENT REEL: 047096 FRAME: 0184

PATENT APPLICATION

84517433

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

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RECORD ID:

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:

ELECTRONIC DEVICES HAVING MULTIPLE POSITION CAMERAS

Filing Date:	August 23, 2018	Application No.:	16/079137	
		The privation from		

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent.

I/we additionally authorize HPDC to file applications in my/our name for Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and l/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclatmers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND I/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

<		ied by the Record ID	and title set forth at	the filing date and application number of said ove, as soon as the same shall have been made eal(s):
/	Inventor's Signeture	\sum	<u>></u>	LOI25116.
laria	Natalia First/Middle Name	Russi-Vigoya Last Name		
	Inventor's Signature			Date
	Michael C.	Bartha		
	First/Middle Name	Last Name		
	Rev 8/2014 (Assignment)		Page 1 of 2	

PATENT REEL: 047096 FRAME: 0185

HP Inc.		PATENT APPLICATION
3390 E. Harmony Road		· · · · · · · · · · · · · · · · · · ·
Mail Stop 35		
Fort Collins, Colorado 80528	RECORD ID:	84517433

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:

ELECTRONIC DEVICES HAVING MULTIPLE POSITION CAMERAS

Filing Date:	August 23, 2018	Application No.:	16/079137	
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and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent.

I/we additionally authorize HPDC to file applications in my/our name for Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND I/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Last Name

Inventor's Signature		Date	
Natalia	Russi-Vigoya		
First/Middle Name	Last Name		
Michael Inventor's Signature	C. Bartha		
Michael C.	Bartha		

First/Middle Name

Rev 8/2014 (Assignment)

Page 1 of 2

PATENT REEL: 047096 FRAME: 0186

3390 E. Harmony Road Mail Stop 35			PATENT APPLICATION
Fort Collins, Colorado 80528		RECORD ID:	84517433
	ASSIGNMENT OF PAT	ENT APPLICATION (cont.)
EMenno		10/24/2016	
Inventor's Signature		Date	
Dimitre	Mehandjiysky		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Zheng	Сао		
First/Middle Name	Last Name		
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		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Rev 8/2014 (Assignment)	Page	e 2 of 2	

HP Inc.

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528		RECOF	rd ID:	PATENT APPLICATION 84517433
	ASSIGNMENT OF	PATENT APPLICA	ATION (cont.)	
Inventor's Signature		ī	Date	
Dimitre First/Middle Name	Mehandjiysky			
Inventor's Signature			<u>10-25-2016</u> Date	
Zheng	Сао			
First/Middle Name	Last Name			
Inventor's Signature		ī	Date	
First/Middle Name	Last Name			
Inventor's Signature		ī	Date	
First/Middle Name	Last Name			
Inventor's Signature		ī	Date	
First/Middle Name	Last Name			
Inventor's Signature		<u>c</u>	Date	
First/Middle Name	Last Name			
Rev 8/2014 (Assignment)		Page 2 of 2		

RECORDED: 10/08/2018

PATENT REEL: 047096 FRAME: 0188