## 504579267 10/04/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4625978

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JOHN WILLIAM PENNINGTON JR.	07/31/2017
DANIEL YOON	07/31/2017
IVY TSENG	07/31/2017
INSUN HONG	08/28/2017
GLENN A. WONG	09/14/2017
KEVIN L. MASSARO	09/18/2017

## **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:	29612524	

## **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:	84635920	
NAME OF SUBMITTER:	COLLINS N. MBA-JONAS, III	
SIGNATURE:	/Collins N. Mba-Jonas, III/	
DATE SIGNED:	10/04/2017	

PATENT 504579267 REEL: 043778 FRAME: 0829

# Total Attachments: 6 source=Assignment for recordation\_#page1.tif source=Assignment for recordation\_#page2.tif source=Assignment for recordation\_#page3.tif source=Assignment for recordation\_#page4.tif source=Assignment for recordation\_#page5.tif source=Assignment for recordation\_#page6.tif

PATENT REEL: 043778 FRAME: 0830

HP inc.		PATENT APPLICATION
3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID:	84635920
and the second of the control of the second	SENT 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, little and interest, including the right of priority, in, to and under an application for Patent entitled:

Computer

Filing Date:	August 1, 2017	Application No.:	29/612,524
divisionals, and	I renewals of and substitutes for s	aid application for said Patent	nuations, continuations-in-part (C-I-P's), , and any and all other Patert of any or reexaminations, or extensions of said
láve additi	onally authorize HPDC to file applica	tions in my/our name for Paten	t in any country, to be held and enloyed

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 tiwe 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 nomines, 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 paths 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 five 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 filling 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):

Solve M Pa	migle h		7/31/201	<b>7</b>
Interior's Signature			Dete	*
John William	Pennington Jr.			
First/Middle Name	Last Name			
Inventor's Signature			Date	
Daniel	Yoon			
First/Middle Name	Last Name			
Rev 8/2014 (Assignment)		Page 1 of 6		

HP Inc. 3390 E. Harmony Road Mail Stop 35			PATENT APPLICATION
Fort Collins, Colorado 80528		RECORD ID:	0403334U
	ASSIGNMENT OF F	ATENT APPLICATION	
and in furtherance of my/c Limited Partnership having subsidiaries and affiliates, a	each), for good and valuable our obligations to HEWLET its principal place of bus gree to assign and transfer a	consideration, the receipt of T-PACKARD DEVELOPME iness in Houston, Texas, ( and hereby assign and transi	which is hereby acknowledged. NT COMPANY, L.P., a Texas (hereinafter HPDC), and to its fer to HPDC, its successors and under an application for Patent
Computer			
Filing Date: August 2	1, 2017	Application No.: 29/	612,524
divisionals, and renewals of	and substitutes for said app	, and any and all continuatio dication for said Patent, and	ns, continuations-in-part (C-I-P's) any and all other Patent of any caminations, or extensions of said
by HPDC, its successors, ass	signs, nominees or legal repr ranted, reissued or extended	esentatives, to the full end of l, as fully and entirely as the	ny country, to be held and enjoyed the term or terms for which said same would have been held and
executed and will not execute time a request is made, and v perfect the title to said inventi- nominees or legal represental said invention(s) or improvem papers, to execute all discla- rightful oaths and declarations legal representatives to obtai	any agreement in conflict he vithout undue delay, execute a on(s) or improvement(s), said tives, and I/we agree to comment(s), said application and simers and divisionals, conting and generally to do everything and enforce, for its or their countries provided the expension	rewith, and I/we further cover and deliver all such papers as I application and said Patent, nunicate to HPDC, or to its no aid Patent, to testify in any le uations, C-I-P's, reissue and ng possible to aid HPDC, its si r own benefit, proper patent	n assigned, and that I/we have no nant and agree that I/we will, each may be necessary or desirable to HPDC, its successors, assigns ominee, all known facts respecting foreign applications, to make all uccessors, assigns, nominees and protection for said invention(s) o me/us in lending such cooperation
applications as aforesaid, to i	ssue to HPDC, as assignee s) which may be issued an	of the entire right, title and in	ose duty it is to issue patents or terest, any and all Patent for said t of the application aforesaid, in
			and application number of said as the same shall have been made
IN WITNESS WHEREOF	, I/we hereunto set my/our	hand(s) and seal(s):	
Inventor's Signature		 Date	
John William	Pennington Jr.		

Daniel Yoon First/Middle Name Last Name Rev 8/2014 (Assignment)

Last Name

First/Middle Name

Inventor's Signature

Page2 of6

Date

7-31-2017

HP Inc. 3390 E. Harmony Road Mail Stop 35

## PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84635920
	ASSIGNMENT OF PA	ATENT APPLICATION (con	it.)
Am	Trong	07	31.2017
Inventor's Signature	7	Date	
lvy	Tseng		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Insun	Hong		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Glenn A.	Wong		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Kevin L.	Massaro		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		

Page3: of6

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

## PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	3	RECORD ID:	84635920
	ASSIGNMENT OF P	ATENT APPLICATION (co	nt.)
Inventor's Signature		Cate	
lvy	Tseng		
First/Middle Name	Last Name		
Hongh		A.	4.28.17
Inventor's Signature		Date	}
Insun	Hong		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Glenn A.	Wong		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Kevin L.	Massaro		
First/Middli: Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Läst Name	······································	

Page 4 of 6

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

## PATENT APPLICATION

Fort Callins, Colorado 80528		RECORD ID: 84635920
	ASSIGNMENT OF PATEN	IT APPLICATION (cont.)
Invenior's Signature		Date
lvý "	Tseng	
First/Middle Name	Last Name	
Inventor's Signature		Date
insun	Hong	
First/Middle Name	Last Name	
Inventor's Sigrepite		9/14/17-
Glenn A.	VSFR ACCOUNT	
First/Middle Name	Wong Last Name	
Inventor's Signature		Date
Kevin L.	Massaro	
First/Middle Name	Last Name	
	# 12	
inventor's Signature		Date
First/Middle Name	Last Name	·
Inventor's Signature		Date
AND COMMENTS OF THE AND COMMENTS		······································
First/Middle Name	Last Name	

Page 5 of 6

HP Inc. 3390 E. Harmony Road Mail Stop 35

## PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	3	RECORD ID:	84635920
	ASSIGNMENT OF PA	ATENT APPLICATION (cor	nt.)
nventor's Signature		Date	
ivy	Tseng		
First/Middle Name	Last Name		
Inventor's Signature		 Date	
insun	Hong		
First/Middle Name	Last Name		
nventor's Signature		Date	
Glenn A.	Wong		
First/Middle Name	Last Name		
then			09/18/2017
nventor's Signature		Date	
Kevin L.	Massaro		
First/Middle Name	Last Name		
inventor's Signature		Date	
First/Middle Name	Last Name		
inventor's Signature			
First/Middle Name	Last Name		

Rev 8/2014 (Assignment) Page 6 of 6

PATENT REEL: 043778 FRAME: 0836