PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TERRY M. NELSON	02/16/2017
MARK Q. SHAW	02/16/2017

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:	15970338

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.

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Correspondent Name: HP INC.

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Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84942939
NAME OF SUBMITTER:	DAN C. HU
SIGNATURE:	/Dan C. Hu, Reg. No. 40,025/
DATE SIGNED:	05/03/2018

Total Attachments: 1

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PATENT REEL: 045709 FRAME: 0153

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

PATENT APPLICATION

3390 E. Harmony Road		
/lail Stop 35		A 4 111 A 111 A A
Fort Collins, Colorado 80528	RECORD ID:	84515336

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

Application No.:	15/642,929
ication for said Patent,	nuations, continuations-in-part (C-I-P's), and any and all other Patent of any r reexaminations, or extensions of said
esentatives, to the full e as fully and entirely as	in any country, to be held and enjoyed and of the term or terms for which said is the same would have been held and
ewith, and I/we further nd deliver all such pape application and said Pa unicate to HPDC, or to aid Patent, to testify in actions, C-I-P's, reissue g possible to aid HPDC own benefit, proper pa	herein assigned, and that I/we have not covenant and agree that I/we will, each ers as may be necessary or desirable to tent, to HPDC, its successors, assigns, its nominee, all known facts respecting any legal proceedings, to sign all lawfue and foreign applications, to make all, its successors, assigns, nominees and atent protection for said invention(s) or ed by me/us in lending such cooperation
of the entire right, title a	es whose duty it is to issue patents or and interest, any and all Patent for said result of the application aforesaid, in
	date and application number of said soon as the same shall have been made
nand(s) and seal(s):	
2	017-07-16
Date	
2017	-02-16
	and any and all continication for said Patent, re; and any reissues, or my/our name for Patent esentatives, to the full eas fully and entirely an made; showey the entire interest ewith, and I/we further application and said Patent, to testify in a lations, C-I-P's, reissue g possible to aid HPDC own benefit, proper pes which may be incurred any country or countries the entire right, title and granted on or as a cord to insert the filling title set forth above, as senand(s) and seal(s):

Page 1 of 1

Date

PATENT REEL: 045709 FRAME: 0154

RECORDED: 05/03/2018

Shaw

Last Name

Inventor's Signature

First/Middle Name Rev 8/2014 (Assignment)

Mark Q.