PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4813257

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	Corrective Assignment to correct the RECEIVING PARTY DATA ON COVER SHEET previously recorded on Reel 044466 Frame 0416. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
ROBERT MOSER	12/19/2017
JOHN M. ENNIS	12/19/2017
RYAN W. BARNES	12/19/2017
KI JUNG HAN	12/19/2017
MICHAEL V. LEMAN	12/19/2017
WESLEY R. SCHALK	12/19/2017

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:	29630629

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 35Address Line 2:INTELLECTUAL PROPERTY

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84846390
NAME OF SUBMITTER:	TODD A. RATHE
SIGNATURE:	/Todd A. Rathe/

PATENT REEL: 045273 FRAME: 0147

DATE SIGNED: 02/07/2018 **Total Attachments: 14** source=84846390recordcorrectpdf#page1.tif source=84846390recordcorrectpdf#page2.tif source=84846390recordcorrectpdf#page3.tif source=84846390recordcorrectpdf#page4.tif source=84846390recordcorrectpdf#page5.tif source=84846390recordcorrectpdf#page6.tif source=84846390recordcorrectpdf#page7.tif source=84846390recordcorrectpdf#page8.tif source=84846390recordcorrectpdf#page9.tif source=84846390recordcorrectpdf#page10.tif source=84846390recordcorrectpdf#page11.tif source=84846390recordcorrectpdf#page12.tif source=84846390recordcorrectpdf#page13.tif source=84846390recordcorrectpdf#page14.tif

> PATENT REEL: 045273 FRAME: 0148



United States Patent and Trademark Office

Home | Site Index | Search | Guides | Contacts | eBusiness | eBiz alerts | News | Help



Electronic Patent Assignment System

Confirmation Receipt

Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT MOSER	12/19/2017
JOHN M. ENNIS	12/19/2017
RYAN W. BARNES	12/19/2017
KI JUNG HAN	12/19/2017
MICHAEL V. LEMAN	12/19/2017
WESLEY R. SCHALK	12/19/2017

RECEIVING PARTY DATA

Name:	Hewlett Packard Enterprise Development LP
Street Address:	11445 Compaq Center Drive West
City:	Houston
State/Country:	TEXAS
Postal Code:	77070

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29630629

CORRESPONDENCE DATA

Fax Number:

Phone: (970) 898-7444 **Email:** hpe.ip.mail@hpe.com

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.

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

ATTORNEY DOCKET NUMBER:	84846390
NAME OF SUBMITTER:	TODD A. RATHE
Signature:	/Todd A. Rathe/
Date:	12/21/2017

Total Attachments: 12

source=84846390A#page1.tif source=84846390A#page2.tif source=84846390A#page3.tif source=84846390A#page4.tif source=84846390A#page5.tif source=84846390A#page6.tif source=84846390A#page7.tif source=84846390A#page8.tif source=84846390A#page9.tif source=84846390A#page10.tif source=84846390A#page11.tif

source=84846390A#page12.tif

RECEIPT INFORMATION

EPAS ID: PAT4747545 **Receipt Date:** 12/21/2017

Return to home page

| .HOME | INDEX | SEARCH | eBUSINESS | CONTACT US | PRIVACY STATEMENT

HP Inc.	•	•					
3390 E.	Hat	3330	ny	Ro	æ		
Mai Sto	p 38	•					
Fort Col	ins.	Ç:	ko:	80	٩ĕ	Ø5	38

PATENT APPLICATION

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:

entite.	
PRINTER	
Filing Date:	Application No.:
and the invention(s) and improvement(s) se	it forth therein, and any and all continuations, continuations-in-part (C-I-P's
divisionals, and renewals of and substitutes	s for said application for said Patent, and any and all other Patent of ar
countries thereto which may be granted their	reon or therefore; and any reissues, or reexaminations, or extensions of sa-

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 tawful 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 two 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.

Owe 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.

		12/19/2017
nventor's Signature		Date
Robert	Moser	
irst/Middle Name	Last Name	
nventor's Signature		Oste
John M.	Ennis	
irst/Middle Name	Last Name	
Per \$1014 (Assignment)	Page 1 of 2	

PATENT REEL: 045273 FRAME: 0151

Inventor's Signature

First/Middle Name

Inventor's Signature

PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID:	84846390
	ASSIGNMENT OF PA	ATENT APPLICATION (cont	.)
Inventor's Signature		Date	
Ryan W.	Barnes		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Ki Jung	Han		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Michael V.	Leman		
First/Middle Name	Last Name		
Inventor's Signature			
Wesley R.	Schalk		
First/Middle Name	Last Name		

Date

Date

First/Middle Name Last Name

Last Name

Rev 8/2014 (Assignment) Page 2 of 2

PATENT APPLICATION

and in furtherance of Limited Partnership ha	ed (each), for good and v my/our obligations to Hl aving its principal place	OF PATENT APPLICATION Illuable consideration, the receipt of which is hereby acknowledged. WLETT-PACKARD DEVELOPMENT COMPANY, L.P., a post business in Houston, Texas, (hereinafter HPDC), and insfer and hereby assign and transfer to HPDC, its successor	Texas to its
assigns, the entire righ entitled:	t, title and interest, includ	ing the right of priority, in, to and under an application for	Patent
PRINTER			
Filing Date:		Application No.:	
divisionals, and renewal	s of and substitutes for s	therein, and any and all continuations, continuations-in-part (C lid application for said Patent, and any and all other Patent therefore; and any reissues, or reexaminations, or extensions	of any
by HPDC, its successors Patent respectively may	s, assigns, nominees or le	ions in my/our name for Patent in any country, to be held and eal representatives, to the full end of the term or terms for whitended, as fully and entirely as the same would have been hent been made;	ich said
executed and will not ex time a request is made, perfect the title to said in nominees or legal repres said invention(s) or impr papers, to execute all or rightful oaths and declara- legal representatives to	ecute any agreement in co and without undue delay, e evention(s) or improvement sentatives, and I/we agree ovement(s), said applicatio lisclaimers and divisionals ations, and generally to do obtain and enforce, for its and all countries provided the	ight to convey the entire interest herein assigned, and that I/we halflict herewith, and I/we further covenant and agree that I/we will be the secure and deliver all such papers as may be necessary or design, said application and said Patent, to HPDC, its successors, as a communicate to HPDC, or to its nominee, all known facts resign and said Patent, to testify in any legal proceedings, to sign a continuations, C-I-P's, reissue and foreign applications, to moverything possible to aid HPDC, its successors, assigns, nomined or their own benefit, proper patent protection for said invention expenses which may be incurred by me/us in lending such cooperation.	ill, each rable to assigns, specting Il lawful nake all ees and on(s) or
applications as aforesaid	I, to issue to HPDC, as as ment(s) which may be iss	ficial of any country or countries whose duty it is to issue pat- signee of the entire right, title and interest, any and all Patent is ued and granted on or as a result of the application afores	for said
	-	s of record to insert the filing date and application number D and title set forth above, as soon as the same shall have bee	
IN WITNESS WHEF	REOF, I/we hereunto set r	ny/our hand(s) and seal(s):	
Inventor's Signature		Date	
Robert	Moser		
First/Middle Name	Last Name		
dr.	- Ne	12/19/2617	
Inventor's Signature		Date	
John M.	Ennis		
First/Middle Name	Last Name		

Rev 8/2014 (Assignment) Page 1 of 2

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84846390
	ASSIGNMENT OF PA	ATENT APPLICATION (cont	.)
Inventor's Signature	_	Date	
Ryan W.	Barnes		
First/Middle Name	Last Name		
Inventor's Signature		 Date	
Ki Jung	Han		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Michael V.	Leman		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Wesley R.	Schalk		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

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

Rev 8/2014 (Assignment)

$D\Lambda$	TE	VIT.	ΛD	וום	$\sim ^{\wedge}$	TION
$-\nu$		VI I	$\Delta \mathbf{P}$	P1 1	1 : A	1111111

3390 E. Harmony Road		
Mail Stop 35		
Fort Collins, Colorado 80528	RECORD ID:	<u>84846390</u>
011 00111110, 00101440 00020		

ASSIGNMENT OF PATENT APPLICATION

and in furtherance of my/ Limited Partnership having subsidiaries and affiliates, a	our obligations to HEWLET g its principal place of bus agree to assign and transfer a	T-PACKARD DEVELOPMENT COMPANY, L.P., a Texas in Houston, Texas, (hereinafter HPDC), and to its and hereby assign and transfer to HPDC, its successors and right of priority, in, to and under an application for Patent
PRINTER		
Filing Date:		Application No.:
divisionals, and renewals of	and substitutes for said app	, and any and all continuations, continuations-in-part (C-I-P's) lication for said Patent, and any and all other Patent of any re; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, as Patent respectively may be	ssigns, nominees or legal repr	my/our name for Patent in any country, to be held and enjoyed esentatives, to the full end of the term or terms for which said, as fully and entirely as the same would have been held and n made;
executed and will not execut time a request is made, and perfect the title to said inven nominees or legal represents said invention(s) or improver papers, to execute all disclaration legal representatives to obta	e any agreement in conflict he without undue delay, execute a tion(s) or improvement(s), said atives, and I/we agree to comment(s), said application and saimers and divisionals, contins, and generally to do everythin and enforce, for its or theil countries provided the expensi	convey the entire interest herein assigned, and that I/we have no rewith, and I/we further covenant and agree that I/we will, each and deliver all such papers as may be necessary or desirable to application and said Patent, to HPDC, its successors, assigns nunicate to HPDC, or to its nominee, all known facts respecting aid Patent, to testify in any legal proceedings, to sign all lawful unations, C-I-P's, reissue and foreign applications, to make a nong possible to aid HPDC, its successors, assigns, nominees and rown benefit, proper patent protection for said invention(s) of ses which may be incurred by me/us in lending such cooperation
applications as aforesaid, to	issue to HPDC, as assignee t(s) which may be issued an	any country or countries whose duty it is to issue patents of the entire right, title and interest, any and all Patent for said granted on or as a result of the application aforesaid, in
		cord to insert the filing date and application number of said itle set forth above, as soon as the same shall have been made
IN WITNESS WHEREO	F, I/we hereunto set my/our	hand(s) and seal(s):
Inventor's Signature		Date
Robert	Moser	
First/Middle Name	Last Name	
Inventor's Signature		Date
John M.	Ennis	
First/Middle Name	Last Name	

Page 1 of 2

PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID:	84846390
	ASSIGNMENT OF PAT	ENT APPLICATION (con	t.)
	WBL		9.17
nventor's Signa are	***************************************	Date	
Ryan W.	Barnes		
First/Middle Name	Last Name		
nventor's Signature			
Ki Jung	Han		
First/Middle Name	Last Name		
nventor's Signature		Date	
Michael V.	Leman		
First/Middle Name	Last Name		
Inventor's Signature		Date	
	e (0:		
Wesley R. First/Middle Name	Schalk Last Name	***************************************	
Inventor's Signature		Date	
First/Middle Name	Last Nanve		
Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

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

PATENT APPLICATION

Ctom 25			
Stop 35		0.40.40000	
Collins Colorado 80528	RECORD ID:	84846390	

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged,

Limited Partnership have subsidiaries and affiliates	ving its principal place of s, agree to assign and trans	LETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas business in Houston, Texas, (hereinafter HPDC), and to its fer and hereby assign and transfer to HPDC, its successors and the right of priority, in, to and under an application for Paten
PRINTER		
Filing Date:		Application No.:
divisionals, and renewals	of and substitutes for said	erein, and any and all continuations, continuations-in-part (C-I-P's) application for said Patent, and any and all other Patent of any erefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, Patent respectively may be	assigns, nominees or legal	ns in my/our name for Patent in any country, to be held and enjoyed representatives, to the full end of the term or terms for which said nded, as fully and entirely as the same would have been held and the been made;
executed and will not exe time a request is made, all perfect the title to said invidenting or legal represes aid invention(s) or impropapers, to execute all disrightful oaths and declaratelegal representatives to o	cute any agreement in conflicted without undue delay, executention(s) or improvement(s), entatives, and I/we agree to evement(s), said application as sclaimers and divisionals, clions, and generally to do event and enforce, for its ord all countries provided the extension and enforce.	to convey the entire interest herein assigned, and that I/we have not therewith, and I/we further covenant and agree that I/we will, each the telephone and said papers as may be necessary or desirable to said application and said Patent, to HPDC, its successors, assigns communicate to HPDC, or to its nominee, all known facts respecting and said Patent, to testify in any legal proceedings, to sign all lawful ontinuations, C-I-P's, reissue and foreign applications, to make a rything possible to aid HPDC, its successors, assigns, nominees and their own benefit, proper patent protection for said invention(s) of expenses which may be incurred by me/us in lending such cooperation.
applications as aforesaid,	to issue to HPDC, as assig ent(s) which may be issue	ial of any country or countries whose duty it is to issue patents or nee of the entire right, title and interest, any and all Patent for said d and granted on or as a result of the application aforesaid, in
		of record to insert the filing date and application number of said and title set forth above, as soon as the same shall have been made
IN WITNESS WHERE	EOF, I/we hereunto set my	our hand(s) and seal(s):
Inventor's Signature		 Date
Robert	Moser	
First/Middle Name	Last Name	
Inventor's Signature		
John M.	Ennis	
First/Middle Name	Last Name	

Rev 8/2014 (Assignment) Page 1 of 2

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84846390
	ASSIGNMENT OF P	PATENT APPLICATION (con	t.)
Inventor's Signature		Date	
Ryan W.	Barnes		
First/Middle Name	Last Name		
Inventor's Signature	mA		9/17
O	U	Date	
Ki Jung	Han		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Michael V.	Leman		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Wesley R.	Schalk		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		

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

PATENT APPLICATION					
	\neg	TEND			TION
	$P\Delta$		I APP	ч н: А	

RECORD ID:	84846390
KECOKD ID.	

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, d in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY. L.P., a Texas

Limited Partnership havir subsidiaries and affiliates,	ng its principal place of agree to assign and transf	the right of priority, in, to and under an application for Par	its and
PRINTER			
Filing Date:		Application No.:	
divisionals, and renewals o	of and substitutes for said	ein, and any and all continuations, continuations-in-part (C-I-I application for said Patent, and any and all other Patent of refore; and any reissues, or reexaminations, or extensions of	any
by HPDC, its successors, a Patent respectively may be	assigns, nominees or legal	s in my/our name for Patent in any country, to be held and enjo epresentatives, to the full end of the term or terms for which ded, as fully and entirely as the same would have been held been made;	saic
executed and will not executime a request is made, and perfect the title to said inversions in the execution of the execution	ate any agreement in conflict without undue delay, execuntion(s) or improvement(s), statives, and I/we agree to coment(s), said application are laimers and divisionals, cons, and generally to do ever tain and enforce, for its or all countries provided the expanding to the expanding and expending the expanding and enforce.	to convey the entire interest herein assigned, and that I/we have herewith, and I/we further covenant and agree that I/we will, at the and deliver all such papers as may be necessary or desirable and application and said Patent, to HPDC, its successors, assignmunicate to HPDC, or to its nominee, all known facts respected said Patent, to testify in any legal proceedings, to sign all language and foreign applications, to make thing possible to aid HPDC, its successors, assigns, nominees their own benefit, proper patent protection for said invention(seenses which may be incurred by me/us in lending such cooperations.	each gns cting wfu e al anc s) or
applications as aforesaid, to	o issue to HPDC, as assign nt(s) which may be issued	I of any country or countries whose duty it is to issue patents ee of the entire right, title and interest, any and all Patent for and granted on or as a result of the application aforesaid	saic
		record to insert the filing date and application number of and title set forth above, as soon as the same shall have been m	
IN WITNESS WHEREC	DF, I/we hereunto set my/o	our hand(s) and seal(s):	
nventor's Signature		Date	—
Robert	Moser		
First/Middle Name	Last Name		
nventor's Signature		Date	
John M.	Ennis		
First/Middle Name	Last Name		

Page 1 of 2

PATENT REEL: 045273 FRAME: 0159

Rev 8/2014 (Assignment)

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84846390
	ASSIGNMENT OF PAT	ENT APPLICATION (con	t.)
nventor's Signature		Date	
Ryan W.	Barnes		
First/Middle Name	Last Name		
nventor's Signature		Date	
Ki Jung	Han		
First/Middle Name	Last Name		
Michael	V. Jeman		12/19/2017
nventor's Signature	04	Date	
Michael V.	Leman		
First/Middle Name	Last Name		
nventor's Signature			
Wesley R.	Schalk		
First/Middle Name	Last Name		
nventor's Signature		 Date	
First/Middle Name	Last Name		
nventor's Signature		Date	
First/Middle Name	Last Name		

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

Rev 8/2014 (Assignment)

PATENT APPLICATION

ail Stop 35			
111 Otop 55		0.40.40000	
rt Collins, Colorado 80528	RECORD ID:	84846390	

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 i Limited Partnership ha subsidiaries and affiliate	my/our obligations to HEWLET ving its principal place of bus s, agree to assign and transfer a	T-PACKARD DEVELOPMENT COMPANY, L.P., a Texas iness in Houston, Texas, (hereinafter HPDC), and to its and hereby assign and transfer to HPDC, its successors and eright of priority, in, to and under an application for Paten
PRINTER		
Filing Date:		Application No.:
divisionals, and renewals	s of and substitutes for said app	, and any and all continuations, continuations-in-part (C-I-P's) dication for said Patent, and any and all other Patent of any ore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors Patent respectively may	, assigns, nominees or legal repr	my/our name for Patent in any country, to be held and enjoyed essentatives, to the full end of the term or terms for which said, as fully and entirely as the same would have been held and on made;
executed and will not exetime a request is made, a perfect the title to said in nominees or legal repressaid invention(s) or impropapers, to execute all dirightful oaths and declarategal representatives to describe the content of t	ecute any agreement in conflict he and without undue delay, execute vention(s) or improvement(s), said entatives, and I/we agree to compovement(s), said application and sisclaimers and divisionals, continuitions, and generally to do everythic batain and enforce, for its or theid all countries provided the expen	onvey the entire interest herein assigned, and that I/we have no rewith, and I/we further covenant and agree that I/we will, each and deliver all such papers as may be necessary or desirable to application and said Patent, to HPDC, its successors, assigns nunicate to HPDC, or to its nominee, all known facts respecting aid Patent, to testify in any legal proceedings, to sign all lawful uations, C-I-P's, reissue and foreign applications, to make a nig possible to aid HPDC, its successors, assigns, nominees and rown benefit, proper patent protection for said invention(s) of ses which may be incurred by me/us in lending such cooperation
applications as aforesaid	, to issue to HPDC, as assignee nent(s) which may be issued ar	f any country or countries whose duty it is to issue patents or of the entire right, title and interest, any and all Patent for said d granted on or as a result of the application aforesaid, in
		cord to insert the filing date and application number of said title set forth above, as soon as the same shall have been made
IN WITNESS WHER	EOF, I/we hereunto set my/our	hand(s) and seal(s):
Inventor's Signature		 Date
Robert	Moser	
First/Middle Name	Last Name	
Inventor's Signature		Date
John M.	Ennis	
First/Middle Name	Last Name	

Page 1 of 2

REEL: 045273 FRAME: 0161

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

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	33	RECORD ID: 84846390
	ASSIGNMENT OF PA	TENT APPLICATION (cont.)
Inventor's Signature		Date
Ryan W.	Barnes	
First/Middle Name	Last Name	
Inventor's Signature	-	Date
Ki Jung	Han	
First/Middle Name	Last Name	
Inventor's Signature		Date
Michael V.	Leman	
First/Middle Name	Last Name	` `
Inventor's Signature		12/19/2017————————————————————————————————————
Wesley R.	Schalk	
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	

Page 2 of 2

Rev 8/2014 (Assignment)