PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WEI ZE LIU	07/27/2018
ROSILET RETNAMONI BRADUKE	07/27/2018
LAN WANG	07/31/2018

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.	
Street Address:	10300 Energy Drive	
City:	Spring	
State/Country:	TEXAS	
Postal Code:	77389	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16982198

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)360-4450 Email: ipa.mail@hp.com

Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35 Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	85928620	
NAME OF SUBMITTER:	TRACY J. KIMMEL	
SIGNATURE:	/Tracy J. Kimmel/	
DATE SIGNED:	09/18/2020	

Total Attachments: 3

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> **PATENT** REEL: 053816 FRAME: 0321 506259391

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

Rev 8/2014 (Assignment)

HP Inc. 3390 E. Harmony Road			PATENT APPLICATION
Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84964604
and in furtherance of my/o Limited Partnership having subsidiaries and affiliates, a	each), for good and valuur obligations to HEV its principal place of gree to assign and trans	/LETT-PACKARD DEVEL business in Houston, To sfer and hereby assign and	ION eipt of which is hereby acknowledged OPMENT COMPANY, L.P., a Texas exas, (hereinafter HPDC), and to its I transfer to HPDC, its successors and and under an application for Paten
Filing Date: 31 Jul 2018	,	Application No.:	PCT/US2018/044505
divisionals, and renewals of	and substitutes for said	erein, and any and all cont application for said Paten	inuations, continuations-in-part (C-I-P's) t, and any and all other Patent of an or reexaminations, or extensions of said
by HPDC, its successors, ass	signs, nominees or legal ranted, reissued or exte	representatives, to the full nded, as fully and entirely a	et in any country, to be held and enjoyed end of the term or terms for which said as the same would have been held and
executed and will not execute time a request is made, and w perfect the title to said invention nominees or legal representate said invention(s) or improvempapers, to execute all disclainghtful paths and declarations, legal representatives to obtain	any agreement in confli- rithout undue delay, exec- pn(s) or improvement(s), ives, and live agree to contist, and live agree to contist, and ent(s), said application as mers and divisionals, contist, and generally to do event and enforce, for its or countries provided the ex-	of herewith, and I/we further sute and deliver all such pap said application and said P communicate to HPDC, or to ind said Patent, to testify in ontinuations, C-I-P's, reissurything possible to aid HPDC their own benefit, proper of	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 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
applications as aforesaid, to it	ssue to HPDC, as assign s) which may be issued	nee of the entire right, title :	es whose duty it is to issue patents or and interest, shy and all Patent for said result of the application aforesaid, in
I'we further authorize an application for Patent, now idea known to them.	d direct the attorneys on the direct the dir	of record to insert the filing and title set forth above, as a) date and application number of said soon as the same shall have been made
IN WITNESS WHEREOF,	I/we hereunto set my/	our hand(s) and seal(s):	
Weisehh		07/	127/2018
inventor's Signature	***************************************	Date	
Wei Ze	Liu		
First/Middle Name	Last Name		
inventor's Signature		Date	
Rosilet Retnamoni	Braduke		
First/Middle Name	Last Name		

PATENT REEL: 053816 FRAME: 0322

Page 1 of 2

HP Inc.	***********
3390 E. Harmony Road	4
Mail Stop 35	
Fort Collins, Colorado I	80528

First/Middle Name

Rev 8/2014 (Assignment)

PATENT APPLICATION

	RECORD ID:	84964604
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ASSIGNMENT OF PATENT APPLICATION

I/VVe, 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 Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and its principal place of business in Hauston, Taxas (haralinester, LEDICA), and the ledical place of business in Hauston, Taxas (haralinester, LEDICA), and the ledical place of business in Hauston, the ledical place of business in the ledical place of business in the ledical place of business td nž

SUNSKNOWINGS SI	iu aiiiiawa, aqn	30 (O assion and transfer a	ne anisse udarad has	exas, (hereinafter HPDC), and to its d transfer to HPDC, its successors and to and under an application for Patent
PASSWORD	UPDATES			
Filing Date:	31 Jul 2018		Application No.:	PCT/US2018/044505
ALEGENISISS BUILD	i i gii gaayaya di si	das dise tot selurizada di	and any and all confication for said Pater	linuations, continuations-in-part (C-I-P's), it, and any and all other Patent of any or reexaminations, or extensions of said
Patent respecti	uccessors, assig vely may be gre	ns, nominees or least repri	esentatives, to the full as fully and entirely:	nt in any country, to be held and enjoyed end of the term or terms for which said as the same would have been held and
time a request in perfect the title nominees or leg said invention(s papers, to executightful caths an legal represents improvement(s)	m not execute as made, and with to said invention to said invention to improvement or improvement all disclaims dedarations, a tives to obtain s	ry agreement in conflict has cut undue delay, execute a (s) or improvement(s), said is, and if we agree to comm ((s), said application and so are and divisionals, continued and generally to do everythin and enforce, for its or their untries provided the expens	ewith, and liwe further nd deliver all such pap application and said P unicate to HPDC, or to aid Patent, to testify in lations, C-I-P's, reissu g possible to aid HPDC own benefit, proper r	therein assigned, and that I/we have not covenant and agree that I/we will, each sers as may be necessary or desirable to stent, to HPDC, its euccessors, assigns, to its nominee, all known facts respecting any legal proceedings, to sign all lawful e and foreign applications, to make all 2, its successors, assigns, nominees and latent protection for said invention(a) or red by me/us in lending such cooperation
invention(s) or	aicheesku, io issi	ie io nipuu, as assignee o which may be issued and	f the entire nont, title :	ies whose duty it is to issue patents on and interest, any and all Patent for said result of the application aforesaid, in
I/we further application for P known to them.	authorize and atent.	direct the attorneys of rec fied by the Record ID and ti	ord to insert the filing lie set forth above, as a	g date and application number of said scon as the same shall have been made
IN WITNES	S WHEREOF, I/	ve hereunto set my/our h	and(s) and seal(s):	
Inventor's Signatu	re-		Date	
Wei Ze		Liu		
First/Middle Name	300	Last Name		127/18
Rosilet Retnam		Braduke	Date ;	

Page 1 of 2

Last Name

HP Inc. 3390 E. Harmony Road Meil Stop 35 Foot College Colorado 80578

Rev 5/2014 (Assignment)

PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID: 84964604		
	ASSIGNMENT OF PATENT APPLICATION (cont.)			
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State of the state		7/3//2018		
Inventor's Signature		Date		
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Lan	Wang			
First/Middle Name	Last Name			
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