508369046 02/01/2024

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT8416235

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HSING-HUNG HSIEH	10/09/2019
KUAN-TING WU	10/09/2019
CHI-HAO CHANG	10/09/2019

### **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:	18428631

### CORRESPONDENCE DATA

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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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JERE POLMATIER **Correspondent Name:** Address Line 1: **QUARLES & BRADY LLP** 

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ATTORNEY DOCKET NUMBER:	86290201; 179066.01254
NAME OF SUBMITTER:	JERE L POLMATIER
SIGNATURE:	/jlp/
DATE SIGNED:	02/01/2024

#### **Total Attachments: 3**

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> **PATENT** REEL: 066325 FRAME: 0073 508369046

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

RECORD	ID: 85793188
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### ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, agree to assign and transfer and hereby assign and transfer to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership :S

and interest, i	ncipal place of business in Sp ncluding all rights of priority, in tion for patent is in another lan	n, to, and under an applica			assigns, my entire right, title, -language title in parentheses
LIGHT SOU	RCE DISTANCE ALTERAT	ions			
Filing Date:	October 9, 2019	Application No.:	PCT/US2	019/055347	Patent Office: US ;
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HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

RECORD	10:	85793188
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## ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consider transfer and hereby assign and transfer to HEWLETT-P having its principal place of business in Spring, Texas, and interest, including all rights of priority, in, to, and un- if said application for patent is in another language):	ACKARD DE! (hereinafter "F	VELOPMENT HPDC"), its si	COMPANY, L.P., uccessors, and its	a Texas Limited Partnersh assigns, my entire right, till	ip e,
LIGHT SOURCE DISTANCE ALTERATIONS					
Filing Date: October 9, 2019 Appli	cation No.:	PCT/US20	19/055347	Patent Office: US	
the subject matter, including any and all inventions, imprinerein "patent" refers to any form of intellectual property design rights, and utility model rights) (hereinafter "Incountry or region or under any international agreement patent, any and all applications for patent directly or indirectly claims priority or benefit, and any and all contion, divisional applications of, national-phase application of patent for any of said inventions) (herein on or as a result of said Applications for Patent (hereins of said Applications for Patents).	protection inc rentions"); an for any of sal- irectly claimin m which any nuation applic s of, regional after "Applica	cluding, without y and all exited inventions of application frations of, complete applications of applications for Pater tions for Pater in the second in th	ut limitation, invent sting and future a (including, without or benefit of any ap or patent for any ntinuation-in-part a cations of, renewa ent"); any and all p	ion rights, utility patent right pplications for patent of a similation, said application fur patent for any of said Inventions directly pplications (hereinafter CIP is of, and substitutes for a stents which may be grant.	ts, ny for or or s) ny ed
I HEREBY represent that I convey my full rights in entire right, title, and interest herein assigned and transf conflict herewith;					
AND I HEREBY authorize HPDC, its successor Applications for Patent in its name or in my name in authorize HPDC, its successors, its assigns, its nomi number, and patent office of said application for patent, them;	any country onees, and its	or region or i legal repre	under any internat sentatives to inser	ional agreement, and furth I the filing date, application	er on
AND I HEREBY authorize and request the officials duty it is to issue patents, to issue to HPDC, its succes Patents, in accordance with the terms of this assignment	sors, or its as	signs, as ass			
AND I HEREBY covenant and agree that I will, each such papers as may be necessary or desirable to per HPDC, its successors, or its assigns; communicate to H all known facts respecting said Inventions, Applications and sign all lawful papers (including, without limitation applications) relating to said Inventions, Applications for generally to do everything possible to aid HPDC, its successors, and enforce, for its or their own benefit, proper and Patents, provided the expenses which may be incur its successors, its assigns, its nominees, or its legal representations.	fect the title PDC, its succ for Patent, are in, divisional or Patent, and coessors, its a intellectual pi red by me in	in said Inver essors, its as nd Patents; to applications. I Patents; an issigns, its no roperty protect	ations, Applications signs, its nomines estify in any legal of continuation app d make all rightful aminees, and its te stion for said Inven	for Patent, and Patents, a, or its legal representative or administrative proceeding lications, CIPs, and reissi oaths and declarations ar- gal representatives to obtain tions, Applications for Pater	to es, gs ue nd in, nt,
IN WITNESS WHEREOF-Thereunto set my hand :	and seal:		0 +11-	18	
Inventor's Signature	***************************************	Dav /	October Month	Vanc.	
Kuan-Ting Wu		righ.	convices	э कार्या	
Given (First and Middle) Name(s) Family Name					

Rev 8/2018 (HPDC Assignment)

Patent Office: US :

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

RECORD	ID:	85793	188

#### ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, agree to assign and transfer and hereby assign and transfer to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Spring, Texas, (hereinafter "HPDC"), its successors, and its assigns, my entire right, title, and interest, including all rights of priority, in, to, and under an application for patent entitled (English-language title in parentheses if said application for patent is in another language):

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of said Applications for Patent or said Patents.

Filing Date: October 9, 2019

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he subject matter,	including any and all inventions, i	improvements, a	and discoveries, set forth	in said application fo	r patent (as used
nerein "patent" refe	ers to any form of intellectual property	erty protection is	ncluding, without limitatio	n, invention rights, u	tility patent rights,
design rights, and	utility model rights) (hereinafter	"Inventions"); a	iny and all existing and	future applications	for patent of any
country or region o	or under any international agreem	ent for any of sa	aid Inventions (including,	without limitation, sa	aid application for
patent, any and all	applications for patent directly or	r indirectly claim	ing priority to or benefit of	of any application for	patent for any of
said Inventions, ar	ny and all applications for patent	t from which an	y application for patent	for any of said Inve	ntions directly or
ndirectly claims pr	iority or benefit, and any and all c	continuation app	lications of, continuation-	in-part applications	hereinafter CIPs)
of, divisional applic	cations of, national-phase applica	ations of, region	al-phase applications of	, renewals of, and si	ubstitutes for any
application for pate	ent for any of said inventions) (he	reinafter "Applic	ations for Patent"); any	and all patents which	n may be granted

Application No.: PCT/US2019/055347

I HEREBY represent that I convey my full rights in all countries and regions and under all international agreements to the entire right, title, and interest herein assigned and transferred, and that I have not executed and will not execute any agreement in conflict herewith:

on or as a result of said Applications for Patent (hereinafter "Patents"); and any and all reissues, reexaminations, and extensions

AND I HEREBY authorize HPDC, its successors, its assigns, its nominees, and its legal representatives to file said Applications for Patent in its name or in my name in any country or region or under any international agreement, and further authorize HPDC, its successors, its assigns, its nominees, and its legal representatives to insert the filing date, application number, and patent office of said application for patent, now identified by the Record ID and title set forth above, when known to them:

AND I HEREBY authorize and request the officials of all countries and regions and under all international agreements whose duty it is to issue patents, to issue to HPDC, its successors, or its assigns, as assignee of my entire right, title, and interest, said Patents, in accordance with the terms of this assignment and transfer;

AND I HEREBY covenant and agree that I 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 in said Inventions, Applications for Patent, and Patents, to HPDC, its successors, or its assigns; communicate to HPDC, its successors, its assigns, its nominees, or its legal representatives, all known facts respecting said Inventions, Applications for Patent, and Patents; testify in any legal or administrative proceedings and sign all lawful papers (including, without limitation, divisional applications, continuation applications, CIPs, and reissue applications) relating to said Inventions, Applications for Patent, and Patents; and make all rightful oaths and declarations and generally to do everything possible to aid HPDC, its successors, its assigns, its nominees, and its legal representatives to obtain, and enforce, for its or their own benefit, proper intellectual property protection for said Inventions, Applications for Patent, and Patents, provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by HPDC, its successors, its assigns, its nominees, or its legal representatives.

IN WITNESS WHEREOF, I hereunto set my hand and seal:

Chu Hao Chang
Inventor's Signature

Chi-Hao Chang
Given (First and Middle) Name(s)

Family Name

Rev 8/2018 (HPDC Assignment)