# 506327907 10/29/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6374657

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JAMES MICHAEL GARDNER	04/23/2019
SCOTT A. LINN	04/23/2019
JEFFERSON P. WARD	05/01/2019
DAVID N. OLSEN	04/23/2019
ANTHONY D. STUDER	04/24/2019
MICHAEL W. CUMBIE	04/24/2019
SIRENA CHI LU	04/24/2019

# **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:	16965825

# **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:	85915986
NAME OF SUBMITTER:	JOSEPH T. JASPER
SIGNATURE:	/Joseph T. Jasper/
DATE SIGNED:	10/29/2020

PATENT REEL: 054209 FRAME: 0209

# Total Attachments: 7 source=85915986-A#page1.tif source=85915986-A#page2.tif source=85915986-A#page3.tif source=85915986-A#page4.tif source=85915986-A#page5.tif source=85915986-A#page6.tif source=85915986-A#page7.tif

PATENT REEL: 054209 FRAME: 0210

LOGIC CIRCUITRY

RECORD II	D:	85721	564

### 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):

Filing Date: April 5, 2019	Application No.:	PCT/US19/26124	Patent Office: US
the subject matter including any and all in	ventions improvements an	d discoveries set forth in as	id application for natural (accusa

the subject matter, including any and all inventions, improvements, and discoveries, set forth in said application for patent (as used herein "patent" refers to any form of intellectual property protection including, without limitation, invention rights, utility patent rights, design rights, and utility model rights) (hereinafter "Inventions"); any and all existing and future applications for patent of any country or region or under any international agreement for any of said Inventions (including, without limitation, said application for patent, any and all applications for patent directly or indirectly claiming priority to or benefit of any application for patent for any of said Inventions, any and all applications for patent from which any application for patent for any of said Inventions directly or indirectly claims priority or benefit, and any and all continuation applications of, continuation-in-part applications (hereinafter CIPs) of, divisional applications of, national-phase applications of, regional-phase applications of, renewals of, and substitutes for any application for patent for any of said Inventions) (hereinafter "Applications for Patent"); any and all patents which may be granted on or as a result of said Applications for Patent (hereinafter "Patents"); and any and all reissues, reexaminations, and extensions of said Applications for Patent or said Patents.

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;

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, maintain, 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 h	ereunto set my hand a	and seal:	23	4		19
Inventor's Signature		Ī	Day	Month	Ye	ear
James Michael	GARDNER					
Given (First and Middle) Name(s)	Family Name					

Rev 8/2018 (HPDC Assignment)

PATENT APPLICATION

RECORD	ID:	85721564

### 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):

LOGIO GINOBITAT			
Filing Date: April 5, 2019	Application No.:	PCT/US19/26124	Patent Office: US

the subject matter, including any and all inventions, improvements, and discoveries, set forth in said application for patent (as used herein "patent" refers to any form of intellectual property protection including, without limitation, invention rights, utility patent rights, design rights, and utility model rights) (hereinafter "Inventions"); any and all existing and future applications for patent of any country or region or under any international agreement for any of said Inventions (including, without limitation, said application for patent, any and all applications for patent directly or indirectly claiming priority to or benefit of any application for patent for any of said Inventions, any and all applications for patent from which any application for patent for any of said Inventions directly or indirectly claims priority or benefit, and any and all continuation applications of, continuation-in-part applications (hereinafter CIPs) of, divisional applications of, national-phase applications of, regional-phase applications of, renewals of, and substitutes for any application for patent for any of said Inventions) (hereinafter "Applications for Patent"); any and all patents which may be granted on or as a result of said Applications for Patent (hereinafter "Patents"); and any and all reissues, reexaminations, and extensions of said Applications for Patent or said Patents.

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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, maintain, 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:

Inventor's Signature

LOGIC CIRCUITRY

Given (First and Middle) Name(s)

LINN

Family Name

Rev 8/2018 (HPDC Assignment)

Day Month

RECORD	ID:	85721564
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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 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):

	including all rights of ition for patent is in a	priority, in, to, and under an applica nother language):	ation for pa	tent entitled (Eng	plish-language title in parentheses
LOGIC CIRC	CUITRY				
Filing Date:	April 5, 2019	Application No.:	PCT/US	19/26124	Patent Office: US;
herein "patent design rights, country or reg patent, any as said Inventior indirectly clair of, divisional application fo on or as a res	t" refers to any form of and utility model rigion or under any intended all applications for any and all applications of priority or benefit, applications of, nation of services of services.	nd all inventions, improvements, are fintellectual property protection in the ghts) (hereinafter "Inventions"); are mational agreement for any of sair patent directly or indirectly claiming and any and all continuation applipated any and all continuation applipated in the property of the protections of the protection	cluding, with any and all of the second all of the second and any	hout limitation, in existing and futuals (including, with the or benefit of ain the for patent for continuation-in-polications of, rer atent"); any and	ivention rights, utility patent rights, ire applications for patent of any hout limitation, said application for ny application for patent for any of any of said Inventions directly or lart applications (hereinafter CIPs) newals of, and substitutes for any all patents which may be granted
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Applications fauthorize HP	or Patent in its nam DC, its successors,	HPDC, its successors, its assign ne or in my name in any country its assigns, its nominees, and it application for patent, now identifie	or region o s legal rep	r under any interestratives to	ernational agreement, and further insert the filing date, application
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IN WITH	ESS WHEREOF, I h	ereunto set my hand and seal:			
Muse	_ P. In/a	$\sim \mathcal{A}$	l	MAY	2019
Thventor's Sig	naturé //		Day	Month	Year
Jefferson P.		WARD			
Given (First ar	nd Middle) Name(s)	Family Name			

Rev 8/2018 (HPDC Assignment)

PA"	TENT	APPL	ICAT	ION

RECORD ID: 85721564
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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 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):

LOGIC CIRCUITRY			
Filing Date: April 5, 2019	Application No.:	PCT/US19/26124	Patent Office: US
the subject matter, including any and all invention herein "patent" refers to any form of intellectual p design rights, and utility model rights) (hereinal country or region or under any international agree patent, any and all applications for patent directly said Inventions, any and all applications for pain indirectly claims priority or benefit, and any and of, divisional applications of, national-phase appapplication for patent for any of said Inventions) on or as a result of said Applications for Patent of said Applications for Patents.	roperty protection inc fter "Inventions"); an ement for any of sake y or indirectly claimin tent from which any all continuation applic olications of, regional (hereinafter "Applica"	luding, without limitation, in y and all existing and futural Inventions (including, with g priority to or benefit of an application for patent for ations of, continuation-in-patent phase applications of, rendions for Patent"); any and	evention rights, utility patent rights, are applications for patent of any nout limitation, said application for any application for patent for any of any of said Inventions directly of art applications (hereinafter CIPs) ewals of, and substitutes for any all patents which may be granted
I HEREBY represent that I convey my full entire right, title, and interest herein assigned and conflict herewith;	rights in all countries d transferred, and tha	and regions and under all the lawe not executed and the lawe not executed and the lawe in the lawer and the lawer and the lawer are lawer and the lawer and the lawer are lawer and the lawer and the lawer are lawer and lawer and lawer are lawer and lawer and lawer are lawer are lawer and lawer are lawer ar	Il international agreements to the will not execute any agreement in
AND I HEREBY authorize HPDC, its suc Applications for Patent in its name or in my na authorize HPDC, its successors, its assigns, it number, and patent office of said application for them;	me in any country o	r region or under any inte legal representatives to i	rnational agreement, and further insert the filing date, application
AND I HEREBY authorize and request the c duty it is to issue patents, to issue to HPDC, its Patents, in accordance with the terms of this assi	successors, or its as	s and regions and under al signs, as assignee of my e	l international agreements whose ntire right, title, and interest, said

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

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RECORD	ID:	85721564	

# **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 prinand interest,	ncipal place of busine	risis in Trever 1-FACKARD to ses in Spring, Texas, (hereinafte priority, in, to, and under an appl nother language):	"HPDC"), its:	successors, and if	s assigns my entire right title
LOGIC CIRC	CUITRY				
Filing Date:	April 5, 2019	Application No	.: PCT/US1	9/26124	Patent Office: US
herein "patent design rights, country or reg patent, any as said Inventior indirectly clair of, divisional application for on or as a res	t" refers to any form of , and utility model riq jion or under any intended all applications for ns, any and all applications of any applications of, nation r patent for any of sa	nd all inventions, improvements, if intellectual property protection (ahts) (hereinafter "Inventions"); irnational agreement for any of sepatent directly or indirectly clain cations for patent from which a and any and all continuation appeal-phase applications of, region id Inventions) (hereinafter "Applins for Patent (hereinafter "Pater aid Patents.	including, with any and all exact inventions in the priority to my application of cations of, call-phase app cations for Pa	out limitation, inve xisting and future (including, withou or benefit of any for patent for any ontinuation-in-part lications of, renew tent"); any and all	ntion rights, utility patent rights applications for patent of any at limitation, said application for application for patent for any or of said Inventions directly or applications (hereinafter CIPs rals of, and substitutes for any patents which may be granted
I HEREB entire right, tit conflict herew	le, and interest herei	onvey my full rights in all countr n assigned and transferred, and	ies and regior that I have not	ns and under all in executed and will	nternational agreements to the I not execute any agreement in
Applications fauthorize HP	or Patent in its name DC, its successors,	IPDC, its successors, its assige or in my name in any countries assigns, its nominees, and application for patent, now identi	or region or its legal repre	under any interna esentatives to ins	ational agreement, and further
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IN WITN	ESS WHEREOF, I he	ereunto set my hand and seal:			
Inventor's Sign	thong o	the	Z 4	Month	<u> 19</u>
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LOGIC CIRCUITRY

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RECORD	ID:	85721564

### ASSIGNMENT OF PATENT APPLICATION

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Filing Date: April 5, 2019	Application No.:	PCT/US19/26124	Patent Office: US
the subject matter, including any and all inveherein "patent" refers to any form of intellection design rights, and utility model rights) (her country or region or under any international patent, any and all applications for patent disaid Inventions, any and all applications for indirectly claims priority or benefit, and any a of, divisional applications of, national-phase application for patent for any of said Invention or as a result of said Applications for Patent or said Applications.	ual property protection inceinafter "Inventions"); an agreement for any of sai rectly or indirectly claiming patent from which any and all continuation applications of, regionations) (hereinafter "Application (hereinafter "Patents	cluding, without limitation, in by and all existing and futured inventions (including, with a priority to or benefit of an application for patent for a cations of, continuation-in-patent included in the cations of, continuation in-patent included in the cations of, rentions for Patent"); any and included in the cations	evention rights, utility patent rights, are applications for patent of any nout limitation, said application for a papplication for patent for any of any of said Inventions directly or art applications (hereinafter CIPs) lewals of, and substitutes for any all patents which may be granted
I HEREBY represent that I convey my entire right, title, and interest herein assigned conflict herewith;	full rights in all countries d and transferred, and the	s and regions and under al at I have not executed and v	Il international agreements to the will not execute any agreement in
AND I HEREBY authorize HPDC, its Applications for Patent in its name or in m authorize HPDC, its successors, its assign number, and patent office of said application them;	y name in any country ons, its nominees, and its	or region or under any inte s legal representatives to i	ernational agreement, and further insert the filing date, application
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IN WITNESS WHEREOF, I hereunto set my hand and seal:

Inventor's Signature

CUMBIE

Given (First and Middle) Name(s)

Family Name

Patents, in accordance with the terms of this assignment and transfer;

Michael W.

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# ASSIGNMENT OF PATENT APPLICATION

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LOGIC CIRCUITRY			
Filing Date: April 5, 2019	Application No.:	PCT/US19/26124	Patent Office: US ;
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I HEREBY represent that I convey my fu entire right, title, and interest herein assigned a conflict herewith;	II rights in all countries and transferred, and tha	and regions and under al at I have not executed and v	I international agreements to the will not execute any agreement in
AND I HEREBY authorize HPDC, its s Applications for Patent in its name or in my authorize HPDC, its successors, its assigns, number, and patent office of said application for them;	name in any country o its nominees, and its	r region or under any inter legal representatives to i	rnational agreement, and further usert the filing date, application
AND I HEREBY authorize and request the duty it is to issue patents, to issue to HPDC, it Patents, in accordance with the terms of this as	s successors, or its as	signs, as assignee of my e	I international agreements whose ntire right, title, and interest, said
AND I HEREBY covenant and agree that I such papers as may be necessary or desirat HPDC, its successors, or its assigns; communi all known facts respecting said Inventions, Appliand sign all lawful papers (including, without applications) relating to said Inventions, Appliance and Patents, provided the expenses which may its successors, its assigns, its nominees, or its	ole to perfect the title cate to HPDC, its succeptions for Patent, and tilmitation, divisional cations for Patent, and C, its successors, its a fit, proper intellectual proper incurred by me in legical proper incurred by me in legi	in said Inventions, Applicatessors, its assigns, its nominal Patents; testify in any legapplications, continuation Patents; and make all riginssigns, its nominees, and its operty protection for said In	tions for Patent, and Patents, to nees, or its legal representatives, gal or administrative proceedings applications, CIPs, and reissue htful oaths and declarations and is legal representatives to obtain, yentions, Applications for Patent

Rev 8/2018 (HPDC Assignment)