505992923 03/31/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6039633

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYA	NCE:	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
STACY L. WOLFF			03/26/2020
ERIC CHEN			03/30/2020
CHAD PATRICK PARIS			03/27/2020
WOOJIN CHUNG			03/25/2020
DAVID LEE			03/27/2020
RECEIVING PARTY DA	TA		
Name:	HEWLE	TT-PACKARD DEVELOPMENT COMPANY	′, L.P.
Street Address:	10300 E	ENERGY DRIVE	
City:	SPRING	G	
State/Country:	TEXAS		
Postal Code:	77389		
PROPERTY NUMBERS	Total: 1		
PROPERTY NUMBERS Property Type	Total: 1	Number	
		Number 29729899	
Property Type Application Number:			
Property Type Application Number: CORRESPONDENCE D Fax Number:		(970)778-4063	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i>	DATA e sent to	29729899	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i>	PATA e sent to provided	29729899 (970)778-4063 • the e-mail address first; if that is unsucc	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email:	DATA e sent to provided	(970)778-4063 <i>the e-mail address first; if that is unsucce</i> <i>if that is unsuccessful, it will be sent via</i> 208-333-4347 ipa.mail@hp.com	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name:	PATA e sent to provided	29729899 (970)778-4063 <i>o the e-mail address first; if that is unsucc</i> <i>if that is unsuccessful, it will be sent via</i> 208-333-4347 ipa.mail@hp.com HP INC.	
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Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	PATA e sent to provided	29729899 (970)778-4063 <i>o the e-mail address first; if that is unsucce</i> <i>if that is unsuccessful, it will be sent via</i> 208-333-4347 ipa.mail@hp.com HP INC. 3390 E. HARMONY ROAD MAIL STOP 35	
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	OATA e sent to provided	(970)778-4063 the e-mail address first; if that is unsucce if that is unsuccessful, it will be sent via 208-333-4347 ipa.mail@hp.com HP INC. 3390 E. HARMONY ROAD MAIL STOP 35 FORT COLLINS, COLORADO 80528-9544	
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NU	OATA e sent to provided	(970)778-4063 (970)7	
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NUME NAME OF SUBMITTER:	OATA e sent to provided	29729899 (970)778-4063 the e-mail address first; if that is unsucce if that is unsuccessful, it will be sent via 208-333-4347 ipa.mail@hp.com HP INC. 3390 E. HARMONY ROAD MAIL STOP 35 FORT COLLINS, COLORADO 80528-9544 85864873 COLLEEN F. BROWN	
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	OATA e sent to provided	(970)778-4063 (970)7	

Total Attachments: 5

source=85864873_ASSIGN#page1.tif source=85864873_ASSIGN#page2.tif source=85864873_ASSIGN#page3.tif source=85864873_ASSIGN#page4.tif source=85864873_ASSIGN#page5.tif HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

RECORD ID: 85864873

ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the receipt of which is heraby 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, (hereinsfter "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):

COMPUTER HOUSING EDGE

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Filing Date:	March 31, 2020	Application No.:	29/729.899	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 of any country or region or under any international agreement for any of said Inventions (including, without limitation, said application for patent of any 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, any and all applications for patent from which any 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"); and 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 assigns, its nominees, or its legal representatives.

IN WITNESS WHEREOF Thereunto set my hand and seal: Inveptor's Signature L. WORFF Stacy Given (First and Middle) Name(s) Family Name

Rev 8/2018 (19/DC Assignment)

PATENT REEL: 052271 FRAME: 0916

RECORD ID: 85864873

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):

COMPUTER HOUSING EDGE

Filing Date:	March 31, 2020	Application No.:	29/729,899	Patent Off	ice: US	š

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 of any of said inventions, 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, any and all applications for patent from which any application for patent for any of said inventions 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"); and 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 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

 $\frac{30}{Month}$ $\frac{20}{Year}$

Eric CHEN Given (First and Middle) Name(s) Family Name

Rev 8/2018 (HPDC Assignment)

PATENT REEL: 052271 FRAME: 0917

RECORD ID: 85864873

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):

COMPUTER HOUSING EDGE

Filing Date:	March 31, 2020	Application No.:	29/729,899	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 of any of said inventions, 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, any and all applications for patent from which any application for patent for any of said inventions 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 Patents or said Patents.

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

Inventor's Signature

Chad Patrick PARIS Given (First and Middle) Name(s) Family Name

Rev 8/2018 (HPDC Assignment)

PATENT REEL: 052271 FRAME: 0918

PATENT APPLICATION

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

85864873 RECORD ID:

ASSIGNMENT OF PATENT APPLICATION

1, 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 Pannership having its principal place of business in Spring, Texas, (hereinafter "HPOC"), its successors, and its assigns, my entire right, tille, and interest, including all rights of priority, in, to, and under an application for patent entitled (English-language tille in parentheses if said application for patent is in another (anguage);

COMPUTER HOUSING EDGE

 Filing Date: 	March 31, 2020	Application No.:	29/729,899	Patent Office:	US	;

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

inventor's Sidnature

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Woojin CHUNG

Given (First and Middle) Name(s)

Family Name

Rev 8/2018 (HPOX: Assognment)

RECORD ID: 85864873

ASSIGNMENT OF PATENT APPLICATION

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COMPUTER HOUSING EDGE

Filing Date: Ma	rch 31, 2020 🛛 🖉	Application No.:	29/729,899	Patent Office:	US	i. A
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IN WITNESS WHEREOF, I hereunto set my hand and seal:

Inventor's Signature

 $\frac{2^{\prime}}{\text{Day}} = \frac{03}{\text{Month}}$ Year

David LEE Given (First and Middle) Name(s) Family Name

Rev 8/2018 (HPDC Assignment)

PATENT REEL: 052271 FRAME: 0920

RECORDED: 03/31/2020