PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES W. STASIAK	04/24/2019
GARRY D. HINCH	04/26/2019
TIMOTHY L. WEBER	04/25/2019

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:	17288554

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.

Correspondent Name: HP INC.

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

ATTORNEY DOCKET NUMBER:	86015907
NAME OF SUBMITTER:	CARRIE A. MILANO
SIGNATURE:	/Carrie A. Milano/
DATE SIGNED:	04/25/2021

Total Attachments: 3

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PATENT 506627823 REEL: 056030 FRAME: 0432

NY SE 2350 E. Harmony Road Mail Stop 35 Fort Collina Colorado 20528

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	85699422	

ASSIGNMENT OF PATENT APPLICATION

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

Filing Date:	27 Apr 2	019	Application No.:	PCT/US2	2019/029538	Patent	Office: US
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these 'pases' reters to any form of intellectual properly protection including, without installectual properly protection including, without installectual properly protection including, without installectual representations for pasest of any country or region or under any international agreement for any of said inventions (including without brothest including selectual brothest pases), any and all applications for pasent directly or indirectly claiming priority to or benefit of any application for pasent for any of said inventions, any and all applications for pasent from which any application for pasent for any of said inventions (including priority) or benefit, and any and all continuation applications of continuation-in-part applications (inventions (incremafter CIPs) of divisional applications of installabeliance applications of renewals of and substitutes for any application for pasent for any of said inventions) (hereinafter 'Applications for Palanti'), any and all patents which may be granted on or as a result of said Applications for Palants'), and any and all releases, reexaminations, and extensions of said Applications for Palants'), and any and all releases, reexaminations, and extensions of said Applications for Palants.

I HERESY 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 handlered, and that I have not executed and will not execute any agreement in conflict beyond?

AND I PERIORY authorize PPOC, its successors, its assigns, its nominates and its legal representatives to the said Applications for Patent in its name or in my raises in any country or region or under any international agreement, and forther authorize PPOC, its successors, its assigns, its nomines, and its legal representatives to linear the Sing date, application running, and patent office of said application for patent now identified by the Record ID and the sail forth above, when known to them:

AND I PERCEY 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 HPCC, its successors, or its assigns, as assignee of my entire right, life, and interest, said. Patents, in accordance with the terms of this assignment and transfer.

AND I HEREBY coverant and agree that I will, each time a request is made, and without under datay, execute and deliver all such papers as may be necessary or secreble to perfect the file in said inventions. Applications for Paterts, and Paterts, to HPDC, its successors, its assigns, its nominees, or its legal representatives, all brown facts respecting said inventions. Applications for Paterts and Paterts, bestly it any legal or extractions or proceedings and sign all leasts pages. (rectaining without limitation, diversal applications, continuation applications. CIPs, and research applications in relating to said inventions. Applications for Paterts and Paterts, and make all hybrid caths and declarations and paterts by the contribute of the Paterts. In additional processors, its assigns, and entered applications of Paterts, and entered to the contribute of the Paterts. In addition, and entered to the paterts and expenses which may be important to be particular to the contribute of the paterts which may be important to the contributes.

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James W. Stasink Green (Feet and Middle) Names: Family Name			

PATERTA	PPLICATION

HP inc. 3390 E. Harmony Road Mail Stop 35 Fort Callins, Colorado 60528

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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 MEWLETT-PACKARD DEVELOPMENT COMPANY. I, P., a Texas Limited Partnership having its principal place of business in Spring, Texas, thereinafter "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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Filing Date:	27 Apr 2019	Application No.:	PCT/US2019/029538	Patent Office: US
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Applications fl authorize HP	or Patent in its name or in DC, its successors, its ass	my name in any country digns, its nominees, and its	s, its nominees, and its legal : or region or under any internation is legal representatives to insent of by the Repord ID and title set.	nal agreement, and lumbe the filing date, application
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		· · ·	est is made, and without undue d in said inventions, Applications	• .

AND I HERESY coveriant 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 fills in said Inventions, Applications for Patent, and Patents, to HPDC, its successors, or its assigns; communicate to HPDC, its successors, its assigns, or its legal representatives, all known facts respecting said inventions, Applications for Patent, and Patents, tequity in any legal or administrative proceedings and sign all leavily papers (including, without limitation, divisional applications, continuation applications. CIPs, and release applications) retaining 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 landing such cooperation and assignance are paid by HPDC, its successors, its assigns, its nominees, or its legal representatives.

IN WITNESS WHEREOF, I has COUNTY OF Inventor's Signature	reunto est my hand and seal:	<u>26</u>	April	2019 Year
Garry D.	Hinch			
Given (First and Middle) Name(s)	Family Name			

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

RECORD	ID:	85699422

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 HEVILETT-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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Filing Date: 27	7 Apr 2019	_ Application No.:	PCT/US2019/029538	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.

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.

Rev 8/2018 (HPOC Assignment)