## 506737318 06/28/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6784134

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name            | Execution Date |
|-----------------|----------------|
| SHANG-TE CHIANG | 07/31/2019     |
| CHIU-YUN HSU    | 07/31/2019     |
| CHEN-MU CHANG   | 07/31/2019     |

### **RECEIVING PARTY DATA**

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|-----------------|---|--|
| Street Address: | 10300 Energy Drive                        |  |
| City:           | Spring                                    |  |
| State/Country:  | TEXAS                                     |  |
| Postal Code:    | 77389                                     |  |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 17418877 |

### 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.

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Correspondent Name: HP INC.

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

| ATTORNEY DOCKET NUMBER: | 86034307           |
|-------------------------|--------------------|
| NAME OF SUBMITTER:      | CARRIE A. MILANO   |
| SIGNATURE:              | /Carrie A. Milano/ |
| DATE SIGNED:            | 06/28/2021         |

## **Total Attachments: 3**

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PATENT 506737318 REEL: 056681 FRAME: 0677

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

| PATENT APPLICATION | PA | TEN | T APP | LICA | TION |
|--------------------|----|-----|-------|------|------|
|--------------------|----|-----|-------|------|------|

### **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 itle, es

|  | uding all rights o  | f priority, in, to,  | and under an applica   |   |  | assigns, my entire right, title,<br>anguage title in parentheses  |
|--|---|--|--|---|--|---|
| DISPLAYS   |   |  |  |   |  |   |
| Filing Date:   | 31 Jul 201  | 9  | Application No.:   | PCT/U   | JS2019/044475  | Patent Office: <u>US</u> ;  |
| herein "patent" re<br>design rights, an<br>country or region<br>patent, any and a<br>said Inventions,<br>indirectly claims p<br>of, divisional app<br>application for pa | fers to any form<br>d utility model in<br>or under any intal<br>all applications for<br>any and all apportionity or benefit<br>lications of, nati-<br>tent for any of sof said Applications | of intellectual prights) (hereinatternational agreer parent directly lications for partical and any and a conal-phase appaid Inventions) ons for Patent  | roperly protection inc<br>fter "Inventions"); an<br>ement for any of sai<br>y or indirectly claimir<br>tent from which any<br>all continuation applia<br>(lications of, regiona<br>(hereinafter "Applica | cluding, without and all extended inventions on priority to application cations of, collaphase applications for Pat   | out limitation, inventi<br>isting and future a<br>(including, without i<br>or benefit of any ap<br>for patent for any of<br>intinuation-in-part a<br>ications of, renewal<br>ent"); any and all pa | pplication for patent (as used<br>ion rights, utility patent rights,<br>pplications for patent of any<br>imitation, said application for<br>plication for patent for any of<br>of said Inventions directly or<br>pplications (hereinafter CIPs)<br>s of, and substitutes for any<br>atents which may be granted<br>examinations, and extensions |
|  |   |  |  |   |  | ernational agreements to the<br>ot execute any agreement in   |
| Applications for F<br>authorize HPDC,  | Patent in its nam<br>its successors,  | ne or in my na<br>, its assigns, it  | me in any country o<br>s nominees, and its   | or region or<br>s legal repre   | under any internati<br>sentatives to inser   | representatives to file said<br>onal agreement, and further<br>t the filing date, application<br>forth above, when known to   |
| duty it is to issue  | patents, to issu  | e to HPDC, its   |  | signs, as as  |  | rnational agreements whose right, title, and interest, said   |
| such papers as in HPDC, its success all known facts reand sign all law applications) relargenerally to do exmaintain, and enfand Patents, provense.                      | may be necessa<br>sors, or its assignations<br>especting said in<br>ful papers (inclu-<br>ting to said inve-<br>verything possible<br>orce, for its or the<br>rided the expens              | ary or desirable<br>gns; communica<br>eventions, Applica<br>ading, without<br>entions, Applica<br>le to aid HPDC,<br>eir own benefit,<br>les which may b | to perfect the title<br>te to HPDC, its succ<br>cations for Patent, a<br>limitation, divisional<br>tions for Patent, and<br>its successors, its a<br>proper intellectual p                               | in said inve-<br>essors, its as<br>nd Patents; t<br>applications<br>d Patents; ar<br>assigns, its no<br>roperty prote | ntions, Applications<br>ssigns, its nominees<br>estify in any legal o<br>, continuation appl<br>nd make all rightful<br>ominees, and its leg<br>ction for said Invent                              | delay, execute and deliver all for Patent, and Patents, to s, or its legal representatives, or administrative proceedings lications, CIPs, and reissue oaths and declarations and gal representatives to obtain, ions, Applications for Patent, ssistance are paid by HPDC,   |
|  | S WHEREOF, I I  | -  | hand and seal:   | 332   | 77   | .0  |
| Shi  | nug-7e  | Chioms   |  | 31  |  | 7017  |
| Inventor's Signatu<br>Shang-Te   | Jre <b>J</b>  | Chiang   |  | Day   | Month  | Year  |
| Given (First and M   | liddle) Name(s)   | Family Name  | )  |   |  |   |

Rev 8/2018 (HPDC Assignment)

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

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## ASSIGNMENT OF PATENT APPLICATION

| transfer and her<br>having its princi<br>and interest, inc   | eby assign and transfer<br>pal place of business in  | aluable consideration, the re<br>to HEWLETT-PACKARD DE<br>Spring, Texas, (hereinafter '<br>ty, in, to, and under an applic<br>r language):   | EVÉLOPMEN<br>'HPDC"), its  | NT COMPANY, L.P., successors, and its   | a Texas Limited Partnership assigns, my entire right, ISBs  |
|--|--|--|--|---|---|
| DISPLAYS   |  |  |  |   |   |
| Filing Date:   | 31 Jul 2019  | Application No.:   | PCT  | /US2019/0444  | 75 Patent Office: US  |
| herein "patent" n<br>design rights, a<br>country or region<br>patent, any and<br>said Inventions,<br>indirectly claims<br>of, divisional ap<br>application for<br>pon or as a result | efers to any form of inte<br>nd utility model rights)<br>n or under any internati-<br>all applications for pate<br>any and all application<br>priority or benefit, and a<br>plications of, national-p<br>atent for any of said Inv | inventions, improvements, a illectual property protection in (hereinafter "Inventions"); allowal agreement for any of sant directly or indirectly claim is for patent from which any and all continuation applications of, regional rentions) (hereinafter "Applicar Patent (hereinafter "Patents atents.  | cluding, with<br>ny and all e<br>id Inventions<br>ng priority to<br>application<br>ications of, c<br>al-phase app<br>ations for Pa | out limitation, invent<br>xisting and future as<br>(including, without<br>or benefit of any ap<br>for patent for any<br>ontinuation-in-part a<br>(lications of, renewa<br>tent"); any and all p | ion rights, utility patent rights<br>pplications for patent of an<br>ilmitation, said application fo<br>pplication for patent for any o<br>of said Inventions directly o<br>pplications (hereinafter CIPs<br>is of, and substitutes for an<br>atents which may be granted |
|  | and interest herein ass  | r my full rights in all countrie<br>igned and transferred, and th  |  |   |   |
| Applications for authorize HPDC  | Patent in its name or<br>, its successors, its a   | its successors, its assign<br>in my name in any country<br>ssigns, its nominees, and it<br>ation for patent, now identific   | or region or<br>s legal repr   | under any internati<br>esentatives to inser   | ional agreement, and further<br>t the filing date, application  |
| duty it is to issue  | e patents, to issue to H   | nest the officials of all countri<br>PDC, its successors, or its a<br>this assignment and transfel   | ssigns, as a:  | ns and under all inte<br>ssignee of my entire   | ernational agreements whose<br>right, title, and interest, said   |
| such papers as HPDC, its succe-<br>all known facts r<br>and sign all law<br>applications) rela<br>generally to do e<br>maintain, and en<br>and Patents, pro                          | may be necessary or ssors, or its assigns; co especting said invention of ull papers (including, ating to said inventions everything possible to ail force, for its or their own vided the expenses whi                            | e that I will, each time a required desirable to perfect the title mmunicate to HPDC, its such ms, Applications for Patent, a without limitation, divisional, Applications for Patent, and HPDC, its successors, its in benefit, proper intellectual proper intellectual proper intellectual proper intellectual proper intellectual proper intellectual propersentatives. | in said Invecessors, its a<br>ind Patents;<br>application<br>d Patents; a<br>assigns, its r<br>property prote                      | entions, Applications<br>assigns, its nominees<br>testify in any legal of<br>s, continuation app<br>and make all rightful<br>nominees, and its leg<br>ection for said Invent                    | s for Patent, and Patents, to<br>s, or its legal representatives<br>or administrative proceedings<br>lications, CIPs, and reissue<br>oaths and declarations and<br>gal representatives to obtain,<br>tlons, Applications for Patent,                                      |
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| - Sollows  |  |  | 31   | 0'/   | 2017  |
| Inventor's Signat  |  |  | Day  | Month   | Year  |
| Chen-Mu  |  | ang  |  |   |   |
| Given (First and N   | viddie) Name(s) Far  | nily Name  |  |   |   |

Rev 8/2018 (HPDC Assignment)

| HP Inc.                      |
|------------------------------|
| 3390 E. Harmony Road         |
| Mail Stop 35                 |
| Fort Collins, Colorado 80528 |
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PATENT APPLICATION

| IZEQQIZD ID | RECORD | ID: | 85766731 |
|-------------|--------|-----|----------|
|             | RECORD | iD- | 85766731 |

## **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):  |  |  |   |   |   |  |  |  |
|--|--|--|---|---|---|--|--|--|
| DISPLAYS   |  |  |   |   |   |  |  |  |
| Filing Date:   | 31 Jul 2019  | Application No.:   | PCT/US  | 32019/044475  | 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 (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. |  |  |   |   |   |  |  |  |
|  | represent that I convey my full<br>and interest herein assigned ar<br>;  |  |   |   |   |  |  |  |
| 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;   |  |  |   |   |   |  |  |  |
| duty it is to issu-  | EBY authorize and request the e patents, to issue to HPDC, its rdance with the terms of this ass   | successors, or its as:   | s and regions<br>signs, as ass  | s and under all internating signee of my entire rig   | ational agreements whose<br>ht, title, and interest, said   |  |  |  |
| such papers as<br>HPDC, its succe<br>all known facts i<br>and sign all lav<br>applications) rel<br>generally to do a<br>maintain, and en<br>and Patents, pro   | EBY covenant and agree that I very be necessary or desirable assors, or its assigns; communic respecting said Inventions, Apploration to said Inventions, Applicating to said Inventions, Applications, as a said the said that th | e to perfect the title is<br>ate to HPDC, its succes<br>ications for Patent, an<br>limitation, divisional<br>ations for Patent, and<br>to its successors, its a<br>proper intellectual probe incurred by me in I | n said Inventessors, its as ad Patents; to applications, Patents; an assigns, its not operty protect. | tions, Applications fo<br>signs, its nominees, o<br>estify in any legal or a<br>continuation applica<br>d make all rightful oa<br>minees, and its legal<br>ction for said Invention | r Patent, and Patents, to<br>r its legal representatives,<br>dministrative proceedings<br>tions, CIPs, and reissue<br>ths and declarations and<br>representatives to obtain,<br>s, Applications for Patent, |  |  |  |
| IN WITNES  | SS WHEREOF, I hereunto set m   | y hand and seal:   |   |   |   |  |  |  |
| d  | ia Tun Man   |  | 31  |   | 2019  |  |  |  |
| Inventor's Signa   | ture   |  | Day   | Month /   | Year  |  |  |  |
| Chiu-Yun   | Hsu  |  |   |   |   |  |  |  |
| Given (First and I   | Middle) Name(s) Family Nam   | e  |   |   |   |  |  |  |

Rev 8/2018 (HPDC Assignment)

**PATENT REEL: 056681 FRAME: 0680** 

**RECORDED: 06/28/2021**