# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4962774

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

#### **CONVEYING PARTY DATA**

| Name             | Execution Date |
|------------------|----------------|
| GARRETT E CLARK  | 02/29/2016     |
| MICHAEL W CUMBIE | 02/29/2016     |
| CHIEN-HUA CHEN   | 02/29/2016     |

## **RECEIVING PARTY DATA**

| Name:           | Hewlett-Packard Development Company, L.P. |  |
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| City:           | Houston                                   |  |
| State/Country:  | TEXAS                                     |  |
| Postal Code:    | 77070                                     |  |

## **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |  |  |
|---------------------|----------|--|--|
| Application Number: | 15772377 |  |  |

## **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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Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35
Address Line 2: INTELLECTUAL PROPERTY

Address Line 4: FORT COLLINS, COLORADO 80528

| ATTORNEY DOCKET NUMBER: | 84957402    |
|-------------------------|-------------|
| NAME OF SUBMITTER:      | KUBAE KIM   |
| SIGNATURE:              | /Kubae Kim/ |
| DATE SIGNED:            | 05/15/2018  |

## **Total Attachments: 4**

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| IHP Inc.                     |
|------------------------------|
| 3390 E. Harmony Road         |
| Mail Stop 35                 |
| Fort Cultins, Colorado 80528 |

#### PATENT APPLICATION

| RECORD ID: | 84957402 |
|------------|----------|
|------------|----------|

## **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent entitled:

| subsidianes ar<br>assigns, the e<br>entitled:  | nd anniates, agree<br>ntire right, title and  | to assign and cars<br>i interest, including  | g the right of priorit   | ty, in, to a  | and under an application for Palent   |
|--|---|--|--|---|---|
| FLUID PROPI  | ELLING APPARAT  | TUS INCLUDING A  | HEAT SINK  |   |   |
| Filing Date:   | 30 April 2018   |  | Application  | on No.:   | 15/772377   |
| divisionale and  | t nanewals of and   | substitutes for said   | t application for said   | d Patent,   | rations, continuations-in-part (C-I-P's)<br>and any and all other Patent of any<br>reexaminations, or extensions of said  |
| by HPDC, its to Patent respect   | woossors, assions   | , nominees or legal<br>ed, reissued or exte  | l representatives, to<br>ended, as fully and a   | the full en   | n any country, to be held and enjoyed<br>id of the ferm or terms for which said<br>the same would have been held and  |
| executed and itime a request perfect the title nominees or le said invention( papers, to exe rightful paths a legal represen improvement(s | will not execute any is made, and without to said invention(s) gai representatives; or improvement(secute all disclaimen and declarations, and taliums to obtain an | agreement in conflut undue delay, exe- or improvement(s), and I/we agree to s), said application is and divisionals, of generally to do eve d enforce, for its o stries provided the e   | ict herewith, and I/w cute and deliver all s , said application an communicate to HP i and said Patent, to I continuations. C-I-P's erything possible to s if their own benefit. | e further couch paper disaid Pation DC, or to it testify in air s, reissue aid HPDC, proper par | erein assigned, and that I/we have no<br>ovenant and agree that I/we will, each<br>is as may be necessary or desirable to<br>ent, to HPDC, its successors, assigns<br>to nominee, all known facts respecting<br>by legal proceedings, to sign all lawful<br>and foreign applications, to make a<br>its successors, assigns, nominees and<br>tent protection for said invention(s) o<br>d by me/us in lending such cooperation |
| applications as<br>invention(s) or   | s aforesaid, to issue   | to HPDC, as assigning the terms of the terms | ance of the entire ris   | ght, title ar   | s whose duty it is to issue patents or<br>nd interest, any and all Patent for sai<br>result of the application aforesaid, is  |
| I/we furth<br>application for<br>known to them   | Patent, now identify  | irect the attomeys<br>ed by the Record ID  | of record to insert<br>and title set forth at  | the filing<br>cove, as so   | date and application number of sail<br>on as the same shall have been mad-  |
| VITW AI  | - UU-   | e hereunto set my  | y/our hand(s) and s  | eal(s):   | 29/16   |
| Garrett E.   |   | Clark  |  |   |   |
| First/Middle Nan   | ne  | Last Name  |  |   |   |
| Inventor's Signa   | ature   |  |  | Date  |   |
| Michael W.   |   | Cumbie   |  |   |   |
| First/Mickelle Nar   | 196   | Last Name  |  |   |   |
| Rev 8/2014 (Assign   | mon)  |  | Page 1 of 2  |   |   |

PATENT

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HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80

Rev 8/2014 (Assignment)

## PATENT APPLICATION

| Mail Stop 35<br>Fort Collins, Colorado 80528 | do 80528 RECORD ID: 84957402 |  |  |  |  |
|--|------------------------------|--|--|--|--|
|  | ASSIGNMENT OF PA             | ASSIGNMENT OF PATENT APPLICATION (cont.) |  |  |  |
| Inventor's Signature                         |                              | Date                                     |  |  |  |
| Chien-Hua                                    | Chen                         |  |  |  |  |
| First/Middle Name                            | Last Name                    |  |  |  |  |
| Inventor's Signature                         |                              | Date                                     |  |  |  |
| First/Middle Name                            | Last Name                    |  |  |  |  |
| Inventor's Signature                         |                              | Date                                     |  |  |  |
| First/Middle Name                            | Last Name                    |  |  |  |  |
| inventor's Signature                         |                              | Date                                     |  |  |  |
| First/Middle Name                            | Last Name                    |  |  |  |  |
| inventor's Signature                         |                              | Date                                     |  |  |  |
| First/Middle Name                            | Last Name                    |  |  |  |  |
| Inventor's Signature                         |                              | Date                                     |  |  |  |
| First/Middle Name                            | Last Name                    |  |  |  |  |

Page 2 of 2

| HP Inc.  |           |            |
|----------|-----------|------------|
|          | Harmony   | Road       |
| Mail Sto |           |            |
| Fort Col | ins. Colo | rado 80528 |

## PATENT APPLICATION

| 3390 E. Harmony Road<br>Mail Stop 35<br>Fort Collins, Colorado 80528   |  | RECORD ID: _   | 84957402  |
|--|--|--|---|
|  | ASSIGNMENT OF PA   | TENT APPI ICATIC   | n N   |
| and in furtherance of my<br>Limited Partnership havis<br>subsidiaries and affiliates,<br>assigns, the entire right,<br>entitled:   | (each), for good and valuable of<br>your obligations to HEWLETT-<br>ing its principal place of busine<br>agree to assign and transfer and<br>title and interest, including the ri  | onsideration, the receiped CACKARD DEVELOI ass in Houston, Texit discretely assign and toght of priority, in, to   | pt of which is hereby acknowledged,<br>PMENT COMPANY, L.P., a Texas<br>as, (hereinafter HPDC), and to its<br>ransfer to HPDC, its successors and<br>and under an application for Patent   |
| FLUID PROPELLING AP  | PARATUS INCLUDING A HEAT   | SINK   |   |
| Filing Date: 30 Apr  | il 2018  | Application No.:   | 15/772377   |
| divisionals and renewals   | of and substitutes for said applic   | ation for said Patent,   | uations, continuations-in-part (C-I-P's),<br>and any and all other Patent of any<br>reexaminations, or extensions of said   |
| by HPDC, its successors, Patent respectively may be  | assions, nominees of legal repres  | entatives, to the full e<br>as fully and entirely as   | in any country, to be held and enjoyed<br>nd of the term or terms for which said<br>the same would have been held and   |
| executed and will not executive a request is made, an perfect the title to said invenominees or legal represents aid invention(s) or improvement, to execute all disrightful oaths and declarativegal representatives to obtain the provement of the | ute any agreement in conflict here it without undue delay, execute an ention(s) or improvement(s), said a niatives, and live agree to communement(s), said application and said claimers and divisionats, continuations, and generally to do everything otain and enforce, for its or their all countries provided the expense HPDC;   | with, and twe further and deliver all such paper application and said Particulation and said Particulation and said Particulations, C-I-P's, reissue a possible to aid HPDC own benefit, proper particulations, which may be incurred. | herein assigned, and that I/we have not covenant and agree that I/we will, each irs as may be necessary or destrable to tent, to HPDC, its successors, assigns, its nominee, all known facts respecting any legal proceedings, to sign all lawful and foreign applications, to make all, its successors, assigns, nominees and atent protection for sald invention(s) or ad by mailus in lending such cooperation |
| hiczgrie se snoitesilno  | to issue to HPDC, as assignee of<br>ant(s) which may be issued and   | the entire right, title a  | es whose duty it is to issue patents on<br>and interest, any and all Patent for said<br>result of the application aforesaid, in   |
| I/we further authorize application for Patent, now known to them.  | and direct the attorneys of receiventified by the Record ID and tit  | ord to insert the filing<br>le set forth above, as s   | date and application number of said oon as the same shall have been made  |
| IN WITNESS WHERE   | OF, I/we hereunto set my/our h   | and(s) and seal(s):  |   |
| Inventor's Signature   |  | Date   |   |
| Garrett E.   | Clark  | ***************************************  |   |
| First/Middle Name  | (Last Name   |  |   |
| Mar he   | Kullo  | <u> 2</u> -  | -29-16  |
| Inventor's Signature   | The state of the s | Cate   |   |

Page 1 of 2

Cumbie

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Michael W.

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Rev 8/2014 (Assignment)

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|---|---------------------|-----------------------|--|
| Fort Collins, Colorado 80528                    |                     |                       |  |
| i.  | ASSIGNMENT OF PATEN | T APPLICATION (cont.) |  |
|   |                     | 2/29/2016             |  |
| Inventor's Signature                            |                     | Dale                  |  |
| Chien-Hua                                       | Chen                |                       |  |
| First/Middle Name                               | Last Name           |                       |  |
| Inventor's Signature                            |                     |                       |  |
|   | 1 X(                |                       |  |
| First/Middle Name                               | Last Name           |                       |  |
| Inventor's Signature                            |                     | Cate                  |  |
| First/Middle Name                               | Last Name           |                       |  |
| Inventor's Signature                            |                     | Date                  |  |
| First/Middle Name                               | Last Name           |                       |  |
| Inventor's Signature                            |                     | Date                  |  |
| First/Middle Name                               | Łast Name           |                       |  |
|   | ·                   | · ,                   |  |
| Inventor's Signature                            |                     | Oate                  |  |

Page 2 of 2

Last Name

RECORDED: 05/15/2018

First/Middle Name

Rev 8/2014 (Assignment)