PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| TAMIR HASSAN | 01/26/2015 |
| NIRANJAN DAMERA VENKATA | 01/26/2015 |

RECEIVING PARTY DATA

| Name: | Hewlett-Packard Development Company, L.P. | |
|-----------------|---|--|
| Street Address: | 11445 Compaq Center Drive West | |
| City: | Houston | |
| State/Country: | TEXAS | |
| Postal Code: | 77070 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15545110 |

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.

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Address Line 4: FORT COLLINS, COLORADO 80528

| ATTORNEY DOCKET NUMBER: | 84648960 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | HEATHER MULKEY |
| SIGNATURE: | /Heather Mulkey/ |
| DATE SIGNED: | 06/21/2019 |

Total Attachments: 2

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PATENT 505538439 REEL: 049552 FRAME: 0283

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

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|------|----|----|------|------|---|
| | | | | | |

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:

| entitled: | this ign, and are interest, allegering | Accession to Minimum to the control of the | commence and constitution | and the Control of th | 7,137,000 |
|--|--|---|---|--|--|
| TEXT FORMA | TTING | | | | |
| Filing Date: | 29 January 2015 | Application No.: | 429/CHE | /2015 | |
| divisionals, and | ion(s) and improvement(s) set forth ther d renewals of and substitutes for said a to which may be granted thereon or the | application for said Paten | t, and any ar | id all other Patent of | fany |
| by HPDC, its s Patent respect | onally authorize HPDC to file applications successors, assigns, nominees or legal r ively may be granted, reissued or exten- fus had this assignment, and transfer not | epresentatives, to the full ded, as fully and entirely a | end of the ter | m or terms for which | said |
| executed and a time a request perfect the title nominees or le said invention(s papers, to exe rightful caths a and legal repre improvement(s | hereby covenant that I/we have full right to will not execute any agreement in conflict is made, and without undue delay, execu- to said invention(s) or improvement(s), a gal representatives, and I/we agree to co- s) or improvement(s), said application and cutte all disclaimers and divisionals, cor- and declarations, and generally to do ew- isentatives to obtain and enforce, for its of in any and all countries provided the dissistance are paid by HPDC; | therewith, and I/we further the and deliver all such paperated application and said Permunicate to HPDC, or told said Patent, to testify in their own benefit, proper their own benefit, proper | covenant and ers as may be atent, to HPD its nominee, any legal pro e and foreign PDC, its succe patent protec | I agree that I/we will, a necessary or desiral C, its successors, asseall known facts respectedings, to sign all it applications, to malessors, assigns, nomition for said invention. | each ole to signs ecting awfu (e al inees (s) o |
| applications as invention(s) or | hereby authorize and request the official aforesaid, to issue to HPDC, as assign- improvement(s) which may be issued the terms of this assignment. | ee of the entire right, title | and interest, a | any and all Patent for | said |
| I/we furthe application for known to them | er authorize and direct the attorneys of Patent, now identified by the Record ID a | f record to insert the filin- nd title set forth above, as | g date and a soon as the s | pplication number of ame shall have been r | said nadd |
| IN WITHE | SS WHEREOF, I/we hereunto set my/o | our hand(s) and seal(s): | | | |
| | The same army | | | | |
| Estado Destado de Caractería d | L. Linkshammer | , Date | JANIKAKY | 26 2015 | |
| Inventor's Signa | ure / s | Date | | | |
| Tamir | Hassan | | | * | |

Rev 8/2014 (Assignment)

First/Middle Name

Page 1 of 2

Last Name

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

84114324 RECORD ID:

ASSIGNMENT OF PATENT APPLICATION (cont.)

Jun 26, 2015

Niranjan

Damera Venkata

First/Middle Name

Last Name

Rev 8/2014 (Assignment)

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PATENT REEL: 049552 FRAME: 0285

RECORDED: 06/21/2019