PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4191354

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| RANIYAL MANINDER | 07/18/2014 |
| MADHYASTHA SANDESH V | 07/21/2014 |

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: | 15320109 |

CORRESPONDENCE DATA

Fax Number:

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.

Phone: (970) 898-7444

Email: hpe.ip.mail@hpe.com

Correspondent Name: HEWLETT PACKARD ENTERPRISE
Address Line 1: 3404 E. HARMONY ROAD MS 79
Address Line 4: FORT COLLINS, COLORADO 80528

| ATTORNEY DOCKET NUMBER: | 90323733 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | KATHY HUNGSBERG |
| SIGNATURE: | /Kathy Hungsberg/ |
| DATE SIGNED: | 12/19/2016 |

Total Attachments: 2

source=90323733AssignExecutedAll#page1.tif source=90323733AssignExecutedAll#page2.tif

PATENT 504135068 REEL: 040671 FRAME: 0464

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

known to them,

| PATENT APPLICATION | PATENT | APPL | JCA | TIO | N |
|--------------------|--------|------|-----|-----|---|
|--------------------|--------|------|-----|-----|---|

| Mail Stop 35 | | RECORD ID: | 700216181 |
|---|--|---|--|
| Fort Collins, Colorado 80528 | an war to be an a say of the trace for the say and say | Promo Cram as one must turk a sine week t | |
| and in furtherance of my/our Limited Partnership having its subsidiaries and affiliates, agre | obligations to HEWLETT-1 principal place of busine to assign and transfer and | nsideration, the receipt of PACKARD DEVELOPMI ss in Houston, Texas, I hereby assign and trans | of which is hereby acknowledged, ENT COMPANY, L.P., a Texas (hereinafter HPDC), and to its sfer to HPDC, its successors and I under an application for Patent |
| DEVICE AUTHENTICATION A | GENT | | |
| Filing Date: 12/19/2016 | | Application No.: 15 | |
| divisionals, and renewals of an | d substitutes for said applica | ition for said Patent, and | ons, continuations-in-part (C-I-P's), I any and all other Patent of any xeminations, or extensions of said |
| by HPOC, its successors, assign | ns, nominees or legal represented, reseased or extended, a | entatives, to the full end o s fully and entirely as the | ny country, to be held and enjoyed of the term, or terms for which said same would have been held and |
| executed and will not execute ar time a request is made, and with perfect the little to said invention(nominees or legal representative said invention(s) or improvement papers, to execute all disclaime rightful paths and declarations, and legal representatives to obta | ny sgreement in conflict herevicul undue delay, execute and s) or improvement(s), said apis, and live agree to communi(s), said application and said application and said application and said the said depending to do everythin and enforce, for its or their countries provided the exp | with, and I/we further cover deliver all such papers as plication and said Patent, acate to HPDC, or to its no Patent, to testify in any li- ions, C-I-P's, reissue and grossible to aid HPDC, own benefit, proper paten | in assigned, and that I/we have not nant and agree that I/we will, each is may be necessary or desirable to to HPDC, its successors, assigns, ominee, all known facts respecting egal proceedings, to sign all lawful foreign applications, to make all its successors, assigns, nominees it protection for said invention(s) or curred by me/us in lending such |
| applications as aforesaid, to issu | ie to HPDC, as assignee of t which may be issued and p | he entire right, fille and ir | nose duty it is to issue patents on iterest, any and all Patent for said It of the application aforesaid, in |
| I/we further authorize and application for Patent, now identi- | direct the attorneys of recor fied by the Record ID and title | d to insert the filing date set forth above, as soon i | and application number of said as the same shall have been made |

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

| Maninder Stugt | | July 18/2014 |
|---|--|--------------|
| Reniyal Maninder Inventor's Typed Name | | |
| Inventor's Signature | | Date |
| Machyastha Sandesh V Inventor's Typed Name | VANABA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | <u></u> |
| Ray & 2014 (Assignment) | Page f of 1 | |

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

| | JCATION |
|--|---------|
| | |
| | |

| RECORD ID: | 700216181 |
|------------|-----------|
|------------|-----------|

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 Housubsidence and affiliates, agree to assign and transfer and hereby as assigns, the entire right, title and interest, including the right of pric | ssign and transfer to HPDC, its successors and |
|--|---|
| entitled: | |
| DEVICE AUTHENTICATION AGENT | |
| Filing Date: 12/19/2016 Applicat | ion No. 15/320109 |
| and the invention(s) and improvement(s) set forth therein, and any airc divisionals, and renewals of and substitutes for said application for as countries thereto which may be granted thereon or therefore; and any n Patent. |) all continuations, continuations-in-part (U-I-PS), sid Patent, and any and all other Patent of any |
| tive additionally authorize HPDC to file applications in my/our name by HPDC, its successors, assigns, nominees or legal representatives, to Patent respectively may be granted, reissued or extended, as fully and enjoyed by merus had this assignment, and transfer not been made; | o the full end of the term or terms for which said |
| AND I'we hereby covenant that I'we have full right to convey the enti- executed and will not execute any agreement in conflict herewith, and I've time a request is made, and without undue delay, execute and deliver all perfect the title to said invention(s) or improvement(s), said application a nominees or legal representatives, and I'we agree to communicate to HF said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-LP rightful oaths and declarations, and generally to do everything possible and legal representatives to obtain and enforce, for its or their own banel improvement(s) in any and all countries provided the expenses while cooperation and assistance are paid by HPDC; | we further covenant and agree that I/we will, each each papers as may be necessary or desirable to nd said Patent, to HPDC, its successors, assigns, POC, or to its nominee, all known facts respecting teatify in any legal proceedings, to sign all lawful is, reissue and fareign applications, to make all to aid HPDC, its successors, assigns, hominees fit, proper patent protection for said invention(s) or |
| AND tive hereby authorize and request the official of any country applications as aforesaid, to issue to HPDC, as assigned of the entire r invention(e) or improvement(s) which may be issued and granted on accordance with the terms of this assignment. | ight, title and interest, any and all Petent for said or as a result of the application aforesaid, in |
| Now further authorize and direct the attorneys of record to inser- application for Patent, now identified by the Record ID and title set forth a known to them. | t the filing date and application number of eatchove, as soon as the same shall have been made |
| IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and | seal(s): |
| Inventor's Signature | Date |
| Raniyal Meninder Inventor's Typed Neme | |
| Now Add Now Address Signature | 07/21/2014 |
| Machyaetha Sandesh V Inventor's Typed Name | |

Page of 1

PATENT REEL: 040671 FRAME: 0466

RECORDED: 12/19/2016

Rev 8/2014 (Assignment)