506057569 05/13/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6104283

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------|----------------|
| DI LIANG | 08/31/2015 |

RECEIVING PARTY DATA

| Name: | Hewlett Packard Enterprise Development LP | |
|-----------------|---|--|
| Street Address: | 11445 Compaq Center Drive West | |
| City: | Houston | |
| State/Country: | TEXAS | |
| Postal Code: | 77070 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15930688 |

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|-------------------------|-------------------|
| NAME OF SUBMITTER: | LAURA M. ZAVALA |
| SIGNATURE: | /Laura M. Zavala/ |
| DATE SIGNED: | 05/13/2020 |

Total Attachments: 1

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PATENT REEL: 052649 FRAME: 0237

506057569

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528

PATENT APPLICATION

| RECORD ID: | 84262752 |
|------------|----------|
| | |

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 Enterprise Development LP, a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPED), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPED, its successors and assigns, the entire right, title and interest, including the right of priority in to and under an application for Patent entitled:

| principal place of business in reduce transfer and hereby assign and trans the right of priority, in, to and under a | der to HPED, its successors and a | ssigns, the entire right, title and interest, including |
|---|--|--|
| DEFECT FREE HETEROGENEOU | S SUBSTRATES | |
| Filing Date: | Applica | tion No.: |
| distribute and renewals of and st | institutes for said application for s | ed all continuations, continuations-in-part (C-I-P's), laid Patent, and any and all other Patent of any reissues, or reexaminations, or extensions of said |
| by HPED its successors assigns of | nominees or legal representatives, reissued or extended, as fully an | e for Patent in any country, to be held and enjoyed to the full end of the term or terms for which said d entirely as the same would have been held and |
| executed and will not execute any attime a request is made, and without perfect the title to said invention(s) or nominees or legal representatives, as said invention(s) or improvement(s), papers, to execute all disclaimers in rightful oaths and declarations, and and legal representatives to obtain a | greement in conflict herewith, and I undue delay, execute and deliver a ir improvement(s), said application and live agree to communicate to had application and said Patent, the and divisionals, continuations, C-I- generally to do everything possible and enforce, for its or their own benountries provided the expenses with | tire interest herein assigned, and that I/we have not /we further covenant and agree that I/we will, each it such papers as may be necessary or desirable to and said Patent, to HPED, its successors, assigns, IPED, or to its nominee, all known facts respecting to testify in any legal proceedings, to sign all lawful P's, reissue and foreign applications, to make all e to aid HPED, its successors, assigns, nominees efit, proper patent protection for said invention(s) or nich may be incurred by me/us in lending such |
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| I/we further authorize and direction for Patent, now identified known to them. | ect the attorneys of record to inso by the Record ID and title set forth | ert the filing date and application number of said above, as soon as the same shall have been made |
| IN WITNESS WHEREOF, I/we here | unto set my/our hand(s) and seal(s): | |
| n. L | ? | 8131115 |
| Inverter's Signature | | Date |
| Di C | iang | |
| | ast Name | |
| Inventor's Signature | | Date |
| First/Middle Name | ast Name | |

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PATENT REEL: 052649 FRAME: 0238

RECORDED: 05/13/2020

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