505029037 07/31/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

Stylesheet Version v1.2

EPAS ID: PAT5075787

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| LIAM B. QUINN | 07/31/2018 |
| CHRISTOPHER ALAN ROBINETTE | 07/26/2018 |
| MICHIEL SEBASTIAAN EMANUEL PETRUS KNOPPERT | 07/24/2018 |

RECEIVING PARTY DATA

| Name: | DELL PRODUCTS, L.P. |
|-----------------|---------------------|
| Street Address: | ONE DELL WAY |
| City: | ROUND ROCK |
| State/Country: | TEXAS |
| Postal Code: | 78682 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 16050605 | |

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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Email: docketing@fogartyip.com

Correspondent Name: FOGARTY LLP
Address Line 1: P.O. BOX 703695

Address Line 4: DALLAS, TEXAS 75370-3695

| ATTORNEY DOCKET NUMBER: | 111700.01 | |
|-------------------------|-----------------------|--|
| NAME OF SUBMITTER: | CALLEEN A. LAWRENCE | |
| SIGNATURE: | /Calleen A. Lawrence/ | |
| DATE SIGNED: | 07/31/2018 | |

Total Attachments: 3

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PATENT 505029037 REEL: 046514 FRAME: 0081

PATENT ASSIGNMENT

WHEREAS, I, Liam B. Quinn, the undersigned inventor, of 8611 Camelia Lane, Austin, Texas 7875 aving invented certain new and useful improvements as disclosed and/or claimed in a patent application entitle //ULTI-FORM FACTOR INFORMATION HANDLING SYSTEM (IHS) WITH ATTACHABLE KEYBOARD," for whice opplication for United States Letters Patent is made, the said application having been filed concurrently herewith and

WHEREAS, Dell Products, L.P., a Texas Limited Partnership, having a principal place of business at Or ell Way, Round Rock, TX 78682, is desirous of acquiring my entire right, title and interest in and to the sa vention, and to the said application and any Letters Patent that may issue thereon in the United States and her countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged areby sell and assign to Dell Products, L.P., its successors and assigns, my entire right, title and interest in and e said invention and in to the said application and all patents which may be granted therefor, and all division issues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commission r Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerne Dell Products, L.P., as assignee of my entire right, title and interest. I declare that I have not executed and will n recute any agreement in conflict herewith.

I also hereby sell and assign to Dell Products, L.P., its successors and assigns, my foreign rights to the vention disclosed in said application, in all countries of the world, including, but not limited to, the right to final polications and obtain patents under the terms of the International Convention for the Protection of Industria operty, and of the European Patent Convention, and further agree to execute any and all patent application is signments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to Dell Products, L.P., or to its successors, assigns, and leg presentatives, any facts known to me respecting said invention or the file history thereof, and at the expense iid assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuatio issue and substitute applications, make all lawful oaths, and generally do everything possible to aid Dell Product P., its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in a runtries.

I authorize the later insertion of the non-provisional application number and filing date herein below.

| TITLE | MULTI-FORM FACTOR IN ATTACHABLE KEYBOARD | NFORMATION HANDLIN | G SYSTEM | (IHS) | WITH |
|---------------------------------|---|--------------------|--------------|-------|------|
| NON-PROVISIONAL APPLICATION NO. | 16/050,605 | FILING DATE | July 31, 201 | .8 | |

IN WITNESS THEREOF

iam B. Quinn

Date

PATENT

REEL: 046514 FRAME: 0082

PATENT ASSIGNMENT

WHEREAS, I, Christopher Alan Robinette, the undersigned inventor, of 1446 Eastshore Dr., Alameda, CA 94501, having invented certain new and useful improvements as disclosed and/or claimed in a patent application entitled: "MULTI-FORM FACTOR INFORMATION HANDLING SYSTEM (IHS) WITH ATTACHABLE KEYBOARD," for which application for United States Letters Patent is made, the said application having been filed concurrently herewith; and

WHEREAS, Dell Products, L.P., a Texas Limited Partnership, having a principal place of business at One Dell Way, Round Rock, TX 78682, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to Dell Products, L.P., its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to Dell Products, L.P., as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to Dell Products, L.P., its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to Dell Products, L.P., or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid Dell Products, L.P., its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the non-provisional application number and filing date herein below.

| TITLE | MULTI-FORM FACTOR I ATTACHABLE KEYBOARD | | LING SYSTEM (IHS) WITH |
|---------------------------------|--|-------------|------------------------|
| NON-PROVISIONAL APPLICATION NO. | 16/050,605 | FILING DATE | July 31, 2018 |

IN WITNESS THEREOF

| In Alexander | 25 104 2018 | |
|----------------------------|-------------|--|
| Christopher Alan Robinette | Date | |
| | <u> </u> | |

PATENT REEL: 046514 FRAME: 0083

PATENT ASSIGNMENT

WHEREAS, I, Michiel Sebastiaan Emanuel Petrus Knoppert, the undersigned inventor, of JF van Hengelstraat 32, Amsterdam, Netherlands 1019 DC, having invented certain new and useful improvements as disclosed and/or claimed in a patent application entitled: "MULTI-FORM FACTOR INFORMATION HANDLING SYSTEM (IHS) WITH ATTACHABLE KEYBOARD," for which application for United States Letters Patent is made, the said application having been filed concurrently herewith; and

WHEREAS, Dell Products, L.P., a Texas Limited Partnership, having a principal place of business at One Dell Way, Round Rock, TX 78682, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to Dell Products, L.P., its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to Dell Products, L.P., as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to Dell Products, L.P., its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to Dell Products, L.P., or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid Dell Products, L.P., its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the non-provisional application number and filing date herein below.

| TITLE | MULTI-FORM FACTOR IN ATTACHABLE KEYBOARD | NFORMATION HANDLIN | IG SYSTEM (IHS) WITH |
|---------------------------------|---|--------------------|----------------------|
| NON-PROVISIONAL APPLICATION NO. | 16/050,605 | FILING DATE | July 31, 2018 |

IN WITNESS THEREOF

7/24/2018
Michiel Sebastiaan Emanuel Petrus Knoppert Date

PATENT REEL: 046514 FRAME: 0084

RECORDED: 07/31/2018