PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5535446

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| WILLIAM PRICE DAWKINS | 05/02/2019 |
| SHYAMKUMAR T IYER | 05/01/2019 |
| KURTIS JOHN BOWMAN | 04/29/2019 |
| JIMMY DOYLE PIKE | 05/03/2019 |

RECEIVING PARTY DATA

| Name: | DELL PRODUCTS L.P. |
|-----------------|--------------------|
| Street Address: | ONE DELL WAY |
| City: | ROUND ROCK |
| State/Country: | TEXAS |
| Postal Code: | 78682-2244 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16403188 |

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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: 2146515000

Email: ipdocketing@haynesboone.com

Correspondent Name: HAYNES AND BOONE. Address Line 1: 2323 VICTORY AVENUE Address Line 4: DALLAS, TEXAS 75219

| ATTORNEY DOCKET NUMBER: | 16356.2040US01 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | JO EL MERCER |
| SIGNATURE: | /Jo El Mercer/ |
| DATE SIGNED: | 05/22/2019 |

Total Attachments: 5

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Docket No.: 16356.2040US01 (114117.01)

Customer No.: 0000160825

ASSIGNMENT

WHEREAS, we,

| (1) | William Price Dawkins | City of Lakeway State of Texas Country Of Residency: United States |
|-----|-----------------------|--|
| (2) | Shyamkumar T. Iyer | City of Austin State of Texas Country Of Residency: United States |
| (3) | Kurtis John Bowman | City of Austin State of Texas Country Of Residency: United States |
| (4) | Jimmy Doyle Pike | City of Georgetown State of Texas County Of Residency: United States |

have invented certain improvements in a

APPLICATION CHECKPOINT AND RECOVERY SYSTEM

| and executed a United | States patent application filed on | May 3, 2019 , | and assigned |
|-----------------------|------------------------------------|---------------|--------------|
| application Serial No | 16/403,188 | | |

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, DELL PRODUCTS L.P., a Texas limited partnership having a place of business at One Dell Way, Round Rock, Texas 78682-2244 (DELL), desires to acquire the entire right, title and interest in the application and invention, and to any United States and foreign patents to be obtained therefore;

NOW, THEREFORE, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby acknowledge our prior existing obligation and hereby sell, assign, transfer to DELL, its successors and assigns, the entire right, title, and interest in the application and invention therein disclosed for the United States and foreign countries, to and under the said improvements, and the said application and all divisionals, renewals, continuing applications thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we request the Commissioner of

Page 1 of 2

Docket No.: 16356.2040US01 (114117.01)

Customer No.: 0000160825

Patents to issue any Letters Patent granted upon the invention set forth in the application to DELL, its successors and assigns; and we hereby agree that DELL may apply for foreign Letters Patent on the invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by DELL.

| (1) | AA/illiam Drice Develope/ | May 2, 2019 |
|--------------------------|--|-------------|
| Signed By: . | William Price Dawkins/ William Price Dawkins | Date |
| (2) Signed By: | | |
| o.g | Shyamkumar T. Iyer | Date |
| (3) | | |
| Signed By: | | |
| | Kurtis John Bowman | Date |
| (4) | | |
| Signed By: | | |
| - · | Jimmy Doyle Pike | Date |

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| (1) Signed By: | | |
|-------------------|-----------------------|----------|
| | William Price Dawkins | Date |
| (2) Signed By: | Ships. | 5/1/2019 |
| | Shyamkumar T. Iyer | Date |
| (3) | | |
| Signed By: | Kurtis John Bowman | Date |
| | | |
| (4) | | |
| Signed By: | | |
| | Jimmy Doyle Pike | Date |

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| (1) Signed By: | | |
|--------------------------|-----------------------|-----------|
| | William Price Dawkins | Date |
| (2) | | |
| Signed By: . | Shyamkumar T. Iyer | Date |
| (3) | | |
| Signed By: | /Kurtis John Bowman/ | 4/29/2019 |
| | Kurtis John Bowman | Date |
| (4) | | |
| Signed By: | | |
| - • | Jimmy Dovle Pike | Date |

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| (1) Signed By: | | |
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| oigned by. | William Price Dawkins | Date |
| (2) Signed By: | | |
| , | Shyamkumar T. Iyer | Date |
| (3) | | |
| Signed By: | | |
| , | Kurtis John Bowman | Date |
| (4) | | |
| Signed By: | /Jimmy Doyle Pike/ | May 3, 2019 |
| , | Jimmy Doyle Pike | Date |

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