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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
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EPAS ID: PAT5761071

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                      |
| <b>CONVEYING PARTY DATA</b>   |                                 |
| <b>Name</b>   | <b>Execution Date</b>           |
| GARY BENEDICT KOTZUR  | 09/18/2019                      |
| WILLIAM EMMETT LYNN   | 09/18/2019                      |
| KEVIN THOMAS MARKS  | 09/17/2019                      |
| CHANDRASHEKAR NELOGAL   | 09/17/2019                      |
| JAMES PETER GIANNOULES  | 09/16/2019                      |
| <b>RECEIVING PARTY DATA</b>   |                                 |
| <b>Name:</b>  | Dell Products L.P.              |
| <b>Street Address:</b>  | One Dell Way                    |
| <b>City:</b>  | Round Rock                      |
| <b>State/Country:</b>   | TEXAS                           |
| <b>Postal Code:</b>   | 78682                           |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                 |
| <b>Property Type</b>  | <b>Number</b>                   |
| <b>Application Number:</b>  | 16586103                        |
| <b>CORRESPONDENCE DATA</b>  |                                 |
| <b>Fax Number:</b>  | (214)200-0853                   |
| <i>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.</i> |                                 |
| <b>Phone:</b>   | 512-867-8459                    |
| <b>Email:</b>   | ipdocketing@haynesboone.com     |
| <b>Correspondent Name:</b>  | HAYNES AND BOONE, LLP           |
| <b>Address Line 1:</b>  | IP SECTION, 2323 VICTORY AVENUE |
| <b>Address Line 2:</b>  | SUITE 700                       |
| <b>Address Line 4:</b>  | DALLAS, TEXAS 75219             |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 16356.2080US01(115824.01)       |
| <b>NAME OF SUBMITTER:</b>   | SVJETLANA LONG                  |
| <b>SIGNATURE:</b>   | /Svjetlana Long/                |
| <b>DATE SIGNED:</b>   | 10/09/2019                      |
| <b>Total Attachments: 6</b>   |                                 |

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**ASSIGNMENT**

WHEREAS, we,

- |     |                        |  |
|-----|------------------------|--|
| (1) | Gary Benedict Kotzur   | City of Austin<br>State of Texas<br>Country of Residency: U.S.A.     |
| (2) | William Emmett Lynn    | City of Round Rock<br>State of Texas<br>Country of Residency: U.S.A. |
| (3) | Kevin Thomas Marks     | City of Georgetown<br>State of Texas<br>Country of Residency: U.S.A. |
| (4) | Chandrashekar Nelogal  | City of Round Rock<br>State of Texas<br>Country of Residency: U.S.A. |
| (5) | James Peter Giannoules | City of Round Rock<br>State of Texas<br>Country of Residency: U.S.A. |

have invented certain improvements in a

**RAID STORAGE-DEVICE-ASSISTED READ-MODIFY-WRITE SYSTEM**

and executed a United States patent application filed on September 27, 2019, and assigned application Serial No. 16/586,103.

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 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)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
Gary Benedict Kotzur

(2)

Signed By: /William Emmett Lynn/ \_\_\_\_\_ Date 9/18/2019  
William Emmett Lynn

(3)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
Kevin Thomas Marks

(4)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
Chandrashekar Nelogal

(5)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
James Peter Giannoules

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Gary Benedict Kotzur

(2)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
William Emmett Lynn

(3)

Signed By: /Kevin Thomas Marks/ 9/17/2019  
Kevin Thomas Marks Date

(4)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
Chandrashekar Nelogal

(5)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
James Peter Giannoules

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(1)

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Gary Benedict Kotzur Date \_\_\_\_\_

(2)

Signed By: \_\_\_\_\_  
William Emmett Lynn Date \_\_\_\_\_

(3)

Signed By: \_\_\_\_\_  
Kevin Thomas Marks Date \_\_\_\_\_

(4)

Signed By: /Chandrashekar Nelogal/ Sep 17, 2019  
Chandrashekar Nelogal Date

(5)

Signed By: \_\_\_\_\_  
James Peter Giannoules Date \_\_\_\_\_

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William Emmett Lynn

(3)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
Kevin Thomas Marks

(4)

Signed By: \_\_\_\_\_ Date \_\_\_\_\_  
Chandrashekar Nelogal

(5)

Signed By: /James Peter Giannoules/ \_\_\_\_\_ Date 09/16/2019  
James Peter Giannoules