

## PATENT ASSIGNMENT COVER SHEET

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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>     |
| BHYRAV M. MUTNURY   | 01/19/2018                |
| STUART ALLEN BERKE  | 01/22/2018                |
| VADHIRAJ SANKARANARAYANAN   | 01/22/2018                |
| <b>RECEIVING PARTY DATA</b>   |                           |
| <b>Name:</b>  | DELL PRODUCTS, LP         |
| <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>             |
| Application Number:   | 15876866                  |
| <b>CORRESPONDENCE DATA</b>  |                           |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | DC-109842                 |
| <b>NAME OF SUBMITTER:</b>   | TIMOTHY G. NEWMAN         |
| <b>SIGNATURE:</b>   | /Timothy G Newman/        |
| <b>DATE SIGNED:</b>   | 02/05/2018                |
| <b>Total Attachments: 2</b>   |                           |
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| source=_DC-109842 Assignment#page2.tif  |                           |

### ASSIGNMENT OF INVENTION

For good and valuable consideration, the receipt of which is hereby acknowledged, I, an Assignor named below,

**Bhyrav M. Mutnury** of **Round Rock, Texas**  
**Stuart Allen Berke** of **Austin, Texas**  
**Vadhiraj Sankaranarayanan** of **Austin, Texas**

hereby sell, assign and transfer to

**ASSIGNEE: DELL PRODUCTS, LP**  
**One Dell Way**  
**Round Rock, Texas 78682**

its successors, assigns and legal representatives, my entire right, title and interest throughout the world, including all rights to claim priority, in and to the invention disclosed in:

- U.S. Patent Application executed on or about the date of this Assignment,
- U.S. Patent Application executed on \_\_\_\_\_, or
- U.S. Provisional Application
- U.S. Application No.: \_\_\_\_\_, filed on \_\_\_\_\_
- International Application No.: PCT/\_\_\_\_\_, filed on \_\_\_\_\_

**ENTITLED: System and Method to Dynamically Increase Memory Channel Robustness at High Transfer Rates**

("Invention") including without limitation, my entire right, title and interest in and to any and all United States and foreign applications (including international, regional and foreign national applications) for said Invention, including divisions, continuations, continuations-in-part, utility models, industrial designs, renewals, substitutes and extensions thereof, and in and to any and all patents, invention registrations, or other forms of protection ("Patents") of every country or region that may be granted or have been granted for said Invention, including any reissues and reexaminations thereof.

To comply with 37 C.F.R. § 3.21 for recording this Assignment, I authorize and request that the application number and filing date be inserted here, if not already shown above, (\_\_\_\_\_/\_\_\_\_\_, filed \_\_\_\_\_) when they become known.

I authorize Assignee to apply for patents of foreign countries for said Invention, and to claim all rights of priority without further authorization from me.

I agree that, upon request and without further compensation, but at no expense to me, I and/or my legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said

Invention, said application, and any Patents granted for said Invention in the United States throughout the world.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

I authorize and request the Director of the United States Patent and Trademark Office and agencies, departments, or other similar offices and officials of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, reexamination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.

Executed on 01/19/2018 by M. Bhayram Murthy  
Bhayram M. Mutnury

Executed on 1/22/2018 by Stuart Allen Berke  
Stuart Allen Berke

Executed on 1/22/18 by Vadhiraj Sankaranarayanan  
Vadhiraj Sankaranarayanan