

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5492378

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VIJENDERA KUMAR	03/12/2018
SANJAY KUMAR	03/12/2018
ARUN R. CHADA	03/09/2018
MALLIKARJUN VASA	03/09/2018
BHYRAV M. MUTNURY	03/09/2018
<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:	15923494
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)439-7199
<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>	512-439-7100
<b>Email:</b>	adyche@larsonnewman.com
<b>Correspondent Name:</b>	LARSON NEWMAN, LLP
<b>Address Line 1:</b>	8500 N. MOPAC EXPY., #280
<b>Address Line 4:</b>	AUSTIN, TEXAS 78759
<b>ATTORNEY DOCKET NUMBER:</b>	DC-110268
<b>NAME OF SUBMITTER:</b>	TIMOTHY G. NEWMAN
<b>SIGNATURE:</b>	/timothy g newman/
<b>DATE SIGNED:</b>	04/25/2019
<b>Total Attachments: 6</b>	
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## ASSIGNMENT OF INVENTION

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

**Vijendera Kumar** of **Bangalore, Karnataka, INDIA**  
**Sanjay Kumar** of **Ranchi, Jharkhand, INDIA**  
**Arun R. Chada** of **Round Rock, Texas**  
**Mallikarjun Vasa** of **Secunderabad, Andhra Pradesh, INDIA**  
**Bhyrav M. Mutnury** of **Round Rock, 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: **Printed Circuit Board Having Vias Arranged  
for High Speed Serial Differential Pair Data Links**

("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.

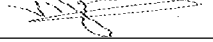
I authorize Assignee to apply for patents of foreign countries for said Invention, and to claim all rights of priority without further authorization from me.

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 03/12/2018 by ,  
**Vijendera Kumar**

Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Sanjay Kumar**

Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Arun R. Chada**

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.

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Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Vijendera Kumar**

Executed on **03/12/2018** by \_\_\_\_\_,  
**Sanjay Kumar**

Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Arun R. Chada**

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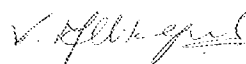
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Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Vijendera Kumar**

Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Sanjay Kumar**

Executed on 03/09/2018 by \_\_\_\_\_,  
**Arun R. Chada**

Executed on 9<sup>th</sup> March 2018 by ,  
**Mallikarjun Vasa**

Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Bhyrav M. Mutnury**

Executed on \_\_\_\_\_ by \_\_\_\_\_,  
**Mallikarjun Vasa**

Executed on 03/09/2018 by M. Bhyrav M. Mutnury,  
**Bhyrav M. Mutnury**