PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN ERVEN JENNE	10/02/2019
KYLE E. CROSS	10/14/2019

RECEIVING PARTY DATA

Name:	DELL PRODUCTS, LP	
Street Address: ONE DELL WAY		
City: ROUND ROCK		
State/Country:	TEXAS	
Postal Code:	78682	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16653232

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: AUSTIN, TEXAS 78759

ATTORNEY DOCKET NUMBER:	DC-116416
NAME OF SUBMITTER:	TIMOTHY G. NEWMAN
SIGNATURE:	/timothy g newman/
DATE SIGNED:	10/15/2019

Total Attachments: 3

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PATENT 505723941 REEL: 050722 FRAME: 0154

Attorney Docket No.: DC-116416

ASSIGNMENT OF INVENTION

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

John Erven Jenne of Austin, Texas, USA

Kyle E. Cross of Austin, Texas, USA

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:

\boxtimes	U.S. Patent A	pplication executed on or	about the date	of this Assignment,	
	U.S. Patent A	pplication executed on _		, or	
	U.S. Provisio	nal Application			
	U.S. Applicat	ion No.:	, filed on		
	International	Application No.: <u>PCT/</u>		_, filed on	
EN	TITLED:	SYSTEM AND METHO SHORTS IN AN INFOR			

("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 comp	oly with 37 C.F.R. § 3.21 fo	or recording this Assignment, I authorize and request that the
applicat	on 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

Attorney Docket No.: DC-116416

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.

10/2/2019	by	Goda Gran Gana John Erven Jenne	
	by		,
	10/2/2019	10/2/2019 by	John Erven Jenne

Attorney Docket No.: DC-116416

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 _	John Erven Jenne	,

			02/ /	
Executed on _	10/14/2019	by _	Kyle E. Cross	,