502629913 01/10/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2676521

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
ANOOP GHANWANI	12/20/2013	
KRISHNAMURTHY SUBRAMANIAN	12/18/2013	
PATHANGI JANARDHANAN	12/20/2013	
SHIVAKUMAR SUNDARAM	12/20/2013	
MOHNISH ANUMALA	12/18/2013	

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14142263	

CORRESPONDENCE DATA

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Email: nmiller@northweber.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER:	20110-1806
NAME OF SUBMITTER:	NITA MILLER

PATENT 502629913 REEL: 031940 FRAME: 0029

Signature:	/Nita Miller/
Date:	01/10/2014
Total Attachments: 7 source=1806_Asmt#page1.tif source=1806_Asmt#page2.tif source=1806_Asmt#page3.tif source=1806_Asmt#page4.tif source=1806_Asmt#page5.tif source=1806_Asmt#page6.tif source=1806_Asmt#page7.tif	

PATENT REEL: 031940 FRAME: 0030

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the individual(s) named below (hereinafter "INVENTOR" whether singular or plural) has sold, assigned, transferred, and set over, and hereby sells, assigns, transfers and sets over, to DELL PRODUCTS L.P., a corporation of the State of Delaware, having a place of business at One Dell Way, Round Rock, TX 78682 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The full and exclusive worldwide right, title, and interest in and to all inventions and

improvem	ents ("SUE	BJECT MA	TTER")	that are dis	closed in	the U.S. p	atent ap	plication,
entitled	"N-Node	Virtual	Link	Trunking	(VLT)	Systems	Data	Plane'
("APPLI	CATION")	,						
	which is a p	rovisional	applicati	on				
	□ bearing	Applicatio	n No		and file	ed		
	□ to be fil	ed herewitl	ı;					
	which is a n	on-provisi	onal app	lication				
	bearing □	Applicatio	n No. <u>1</u> 4	<u>4/142,263,</u> an	d filed <u>De</u>	cember 27,	2013;	
	□ to be fil	ed herewith	h;					
	having a	an oath or o	declaration	on executed o	n the sam	e date as thi	s Assign	ment;
	□ having a	an oath or o	leclaratio	on executed o	n a differe	ent date than	this Ass	signment.

2. The entire worldwide right, title, and interest in and to the APPLICATION and all applications claiming priority to the APPLICATION or having related SUBJECT MATTER to the APPLICATION, including all such design, utility, divisional, continuation, substitute, renewal, reissue, international, or other related applications and all rights of priority in the APPLICATION, together with all rights to recover damages for infringement.

INVENTOR hereby authorizes and requests the Commissioner of the U.S. Patent and Trademark Office, and Patent Office Officials in all foreign countries, to issue to the ASSIGNEE any and all patents which may be granted from the APPLICATION.

INVENTOR will, without further consideration, communicate to the ASSIGNEE any facts known to the INVENTOR regarding the SUBJECT MATTER, testify in any legal proceeding, sign all lawful papers, execute all oaths, assignments, powers of attorney, applications and any

1 of 7

Title:

N-Node Virtual Link Trunking (VLT) Systems Data Plane

Inventor(s): Filing Date:

Ghanwani et al. December 27, 2013

Appln. No.:

14/142,263

Docket No.:

20110-1806 (101845)

other paper desired by ASSIGNEE to obtain, perfect, or secure to ASSIGNEE any and all of the rights, titles and interests herein conveyed, and to maintain, enforce, and defend these rights, titles and interests in the United States and all foreign countries. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE herein.

INVENTOR represents that the INVENTOR, at the time of the execution of this Assignment, is the sole and lawful owner of the entire rights, titles and interests in and to the SUBJECT MATTER as set forth in the APPLICATION, and that the SUBJECT MATTER is unencumbered, and that the INVENTOR has good and full right and lawful authority to sell and convey the SUBJECT MATTER in the manner herein set forth.

INVENTOR covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR agrees to, and hereby acknowledges, that the ASSIGNEE may apply for and receive patents related to the APPLICATION or SUBJECT MATTER.

INVENTOR grants the attorney of record for the APPLICATION the power to insert on this Assignment any further identification, including the application number and filing date, which may be necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment. Five inventor/assignor signature blocks are located on the following pages.

2 of 7

Fitle: Inventor(s): Filing Date: Appln. No.: Docket No.:	N-Node Vii Ghanwani e December 14/142,263 20110-1806	27, 2013	stems Data Plane	
INVENTOR	R Name:	Anoop Ghanwani		
INVENTOR	R Address:	227 Coppervale Circle		
		Rocklin, CA 95765		
Date of Sign	nature:	12 20 13		
		Mulphan Junvento	WW R Signature]	
Witnessed by	7:	Print Name		
Signature:				
State of County of)			
On	, t	efore me	personally ap	peared
[Dat			Title of Officer]	
		, who proved to me	on the basis of satisfactory evid	dence to be the
person(s) wh he/she/they e	VENTOR] ose name(s) executed the on the instru	is/are subscribed to the same in his/her/their aut ment the person(s), or the	within instrument and acknowle horized capacity(ies), and that be e entity upon behalf of which the	edged to me that by his/her/their
		Y OF PERJURY under tue and correct.	he laws of the State of	that the
WITNESS m	ny hand and	official seal.		
Signature			(Seal)	
{20110/1806/00010	0375.DOC v1}	3 of 7	7	

Title: Inventor(s):

{20110/1806/00010375.DOC v1}

Inventor(s): Filing Date: Appln. No.: Docket No.:	Ghanwani e December 14/142,262 20110-1806	27, 2013	
INVENTOR	Name:	Krishnamurthy Subramanian	
INVENTOR	dadress:	19187 Harleigh Dr.	
		Saratoga, CA 95070-5142	
Date of Sign	iature:		
		ing the control of th	
		[INVENTOR Signature]	
		[att Divious Signature]	
Witnessed by		Print Name	
Signature:		<u> </u>	
	and the second s		
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		efore me personally	appeared
[Date	(A) The second of the second o	[Name and Title of Officer]	
		, who proved to me on the basis of satisfactory e	vidence to be the
[INV person(s) who he/sho/they ex	/ENTOR] ose name(s) xecuted the on the instru	is/are subscribed to the within instrument and acknow same in his/her/their authorized capacity(ies), and tha ment the person(s), or the entity upon behalf of which	wledged to me that it by his/her/their
I certify under foregoing par	r PENALT agraph is tr	Y OF PERJURY under the laws of the State of	that the
WITNESS m	y hand and	official seal.	
•	-		
Signature		(Seai)	
		4 . 6 7	
(20110/1806/00010)	375.DOC vI;	4 of 7	

N-Node Virtual Link Trunking (VLT) Systems Data Plane

Title:

(20110/1806/00010375.DOC v1)

INVENTOR Name:	Pathangi Janardhanan		
INVENTOR Address:	R93, 3 rd Main Rd., Annagar	nar	
	Chennai 600 040, TN, India		
Date of Signature:	20-DEC-2013		
-			
	5 4 5 10		
	P. N. Fandhers [INVENTOR Sig	nature]	
Witnessed by: AVIA	IASH MATADOTAN		
	SASH NATARAJAN Print Name		
Signature:	<u> </u>		
C			
State of) County of)			
•			
On, b	efore me[Name and Title of	personally of Officer	appeared
[Dute]			
[INVENTOR]	, who proved to me on the	e basis of satisfactory e	vidence to be the
person(s) whose name(s)	is/are subscribed to the within		
	same in his/her/their authorize ment the person(s), or the enti	1 •	_
acted, executed the instru	-	ey upon soman or wines.	one person (e)
I certify under PENALT	Y OF PERJURY under the law	ws of the State of	that the
foregoing paragraph is tr			
WITNESS my hand and	official seal.		
Signature		(Seal)	
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N-Node Virtual Link Trunking (VLT) Systems Data Plane

Ghanwani et al.

December 27, 2013

14/142,263 20110-1806 (101845)

Title:

Inventor(s): Filing Date:

Appln. No.: Docket No.:

> PATENT REEL: 031940 FRAME: 0035

Appln. No.: 14/142,263 Docket No.: 20110-1806	(101845)
DIVINITION N	Shivakumar Sundaram
INVENTOR Name:	
INVENTOR Address:	8, Balaji Nagar 5th St
Data of Cianatura	Nanganallur, Chennai 600061 INDIA 2 v-De c- 2013
Date of Signature:	20.020.200
	[INVENTOR Signature]
•	[INVENTOR Signature]
State of) County of) On, b	efore me personally appeared [Name and Title of Officer]
he/she/they executed the	, who proved to me on the basis of satisfactory evidence to be the is/are subscribed to the within instrument and acknowledged to me that same in his/her/their authorized capacity(ies), and that by his/her/their ment the person(s), or the entity upon behalf of which the person(s) ament.
I certify under PENALT foregoing paragraph is tr	Y OF PERJURY under the laws of the State of that the rue and correct.
WITNESS my hand and	official seal.
Signature	(Seal)
{20110/1806/00010375.DOC v1}	6 of 7

N-Node Virtual Link Trunking (VLT) Systems Data Plane

Ghanwani et al. December 27, 2013

Title:

Inventor(s): Filing Date:

PATENT REEL: 031940 FRAME: 0036

Title: Inventor(s): Filing Date: Appln. No.: Docket No.:	N-Node Virtu Ghanwani et December 2' 14/142,263 20110-1806 (7, 2013	
INVENTOR	Name:	Mohnish Anumala	
INVENTOR	Address:	1048 Colony Hills Ln.	
		Cupertino, CA 95014	
Date of Signa	ature:	Edital Las	i aparata de la companya de la comp
		The state of the s	
		[INVENTOR Signature]	constant manufactures
		Print Name	
State of County of)		
On[Date	, be	fore me[Name and Title of Officer]	personally appeared
`	•		
person(s) who he/she/they ex	ENTOR] se name(s) is secuted the s in the instrum	, who proved to me on the basis of sa s/are subscribed to the within instrument ame in his/her/their authorized capacity(i tent the person(s), or the entity upon behave thent.	and acknowledged to me that es), and that by his/her/their
Legality under foregoing para	PENALTY	OF PERJURY under the laws of the State and correct.	e of that the

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PATENT REEL: 031940 FRAME: 0037

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(20110/1806/00010375.DOC v1)

WITNESS my hand and official seal.

Signature