

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SUDHARSAN DHAMAL GOPALARATHNAM	02/16/2015
PREMNATH SUNDARABABU	02/16/2015
MAHESH MANIVASAGAM	02/16/2015
RECEIVING PARTY DATA	
Name:	DELL PRODUCST 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:	14643141
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	104297 (20110-1905)
NAME OF SUBMITTER:	NITA MILLER
SIGNATURE:	/Nita Miller/
DATE SIGNED:	03/10/2015
Total Attachments: 5	
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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 Texas, 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 improvements ("SUBJECT MATTER") that are disclosed in the U.S. patent application, entitled "CENTRALIZED CRC AND OTHER PHY ERROR ANALYSIS AND PATH SELECTION MECHANISM" ("APPLICATION"),

which is a provisional application

bearing Application No. _____ and filed _____;

to be filed herewith;

which is a non-provisional application

bearing Application No. 14/643,141, and filed March 10, 2015;

to be filed herewith;

having an oath or declaration executed on the same date as this Assignment;

having an oath or declaration executed on a different date than this Assignment.

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.

Title: CENTRALIZED CRC AND OTHER PHY ERROR ANALYSIS AND PATH SELECTION
MECHANISM
Inventor(s): Gopalarathnam *et al.*
Filing Date: March 10, 2015
Appln. No.: 14/643,141
Docket No.: 104297 (20110-1905)

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 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. Inventor/assignor signature blocks are located on the following pages.

Title: CENTRALIZED CRC AND OTHER PHY ERROR ANALYSIS AND PATH SELECTION MECHANISM
Inventor(s): Gopalarathnam *et al.*
Filing Date: March 10, 2015
Appl. No.: 14/643,141
Docket No.: 104297 (20110-1905)

INVENTOR Name: Sudharsan Dhamal Gopalarathnam
INVENTOR Address: No 5A/17 Nethaji Street, Srinvasa Nagar, Tamil Nadu
600063 Chennai (TN) India
INVENTOR Signature: *Sudharsan*
Date of Signature: 16-FEB-2015

Witnessed By: R. NARESH
[Print Name]
Witness Signature: *R. NARESH*
Date of Signature: 16-FEB-2015

State of _____)
County of _____)

On _____, before me _____ personally appeared,
[Date] [Name and Title of Officer]
_____, who proved to me on the basis of satisfactory evidence to be the
[INVENTOR]
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____
that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

Title: CENTRALIZED CRC AND OTHER PHY ERROR ANALYSIS AND PATH SELECTION
MECHANISM
Inventor(s): Gopalarathnam *et al.*
Filing Date: March 10, 2015
Appln. No.: 14/643,141
Docket No.: 104297 (20110-1905)

INVENTOR Name: Premnath Sundarababu
INVENTOR Address: No -29 A , 19th Cross Street, Jai Nagar
600106 Chennai (TN) India
INVENTOR Signature: S. Premnath
Date of Signature: 16-Feb-2015

Witnessed By: R. NARESH [Print Name]
Witness Signature: R. N
Date of Signature: 16-FEB-2015

State of _____)
County of _____)

On _____, before me _____ personally appeared,
[Date] [Name and Title of Officer]
_____, who proved to me on the basis of satisfactory evidence to be the
[INVENTOR]
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____
that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

(Seal)

Title: CENTRALIZED CRC AND OTHER PHY ERROR ANALYSIS AND PATH SELECTION
MECHANISM
Inventor(s): Gopalarathnam *et al.*
Filing Date: March 10, 2015
Appl. No.: 14/643,141
Docket No.: 104297 (20110-1905)

INVENTOR Name: Mahesh Manivasagam
INVENTOR Address: 14A/28 Govindan St.
600029 Chennai (TN) India
INVENTOR Signature: N. Mahesh
Date of Signature: 16-Feb-2015

Witnessed By: R. NARESH [Print Name]
Witness Signature: R. N
Date of Signature: 16-FEB-2015

State of _____)
County of _____)

On _____, before me _____ personally appeared,
[Date] [Name and Title of Officer]
_____, who proved to me on the basis of satisfactory evidence to be the
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person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
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that the foregoing paragraph is true and correct.

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Signature _____ (Seal)