PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VENKATA IPPATAPU	09/07/2021
JEREMY O'HARE	09/14/2021
ANOOP RAGHUNATHAN	09/13/2021

RECEIVING PARTY DATA

Name:	DELL PRODUCTS, L.P.
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17475573

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 7813631728

Email: jgorecki@andersongorecki.com **Correspondent Name:** ANDERSON GORECKI LLP

Address Line 1: ONE MARINA PARK DRIVE, SUITE 1410

Address Line 2: ATTN: JOHN GORECKI

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	125761.01 / 130-311-JCG
NAME OF SUBMITTER:	JOHN C. GORECKI, REG. NO. 38471
SIGNATURE:	/John C. Gorecki/
DATE SIGNED:	09/15/2021

Total Attachments: 8

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PATENT 506870322 REEL: 057485 FRAME: 0767

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PATENT REEL: 057485 FRAME: 0768

ASSIGNMENT

WHEREAS, I/we, Venkata Ippatapu, Jeremy O'Hare, and Anoop Raghunathan, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

DYNAMIC DEDUPLIATION HASH TABLE MANAGEMENT.

the specification of which:

[X]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[]	was filed on as U.S. Application No;
[]	was patented under U.S. Patent Noon

WHEREAS, **Dell Products**, **L.P.** (hereinafter "ASSIGNEE"), a Delaware limited liability company having a usual place of business at **176 South Street**, **Hopkinton**, **Massachusetts 01748** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I/we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; I/we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the

execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

AND, we do hereby appoint as our attorneys Holmes W. Anderson and John C. Gorecki of Anderson Gorecki LLP, whose full office address is One Marina Park Drive, Suite 1410, Boston, MA 02210, and authorize them to prosecute the patent application(s) and correct errors in this Assignment and to insert any further identification and other information necessary or desirable to make this Assignment suitable for recording in a domestic or foreign Patent Office.

IN TESTIMONY WHEREOF, I/we have hereunto set our hands and affixed our seals as set forth below:

Date:		
	Inventor's Signature	
Full name of inventor	Venkata Ippatapu	
Residence	Westborough, MA	
Citizenship	US	
Mailing Address	176 South Street	
-	Hopkinton, MA 01748	
Date:		
	Inventor's Signature	
Full name of inventor	Jeremy O'Hare	
Residence	Westborough, MA	
Citizenship	US	
Mailing Address	176 South Street	
-	Hopkinton, MA 01748	

Date: 9/13/2021 /Anoop Raghunathan/

Inventor's Signature

Full name of inventor Anoop Raghunathan

Residence Ashland, MA

Citizenship INDIA

Mailing Address 176 South Street

Hopkinton, MA 01748

ASSIGNMENT

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NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I/we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; I/we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

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execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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Date:		
	Inventor's Signature	
Full name of inventor	Venkata Ippatapu	
Residence	Westborough, MA	
Citizenship	US	
Mailing Address	176 South Street	
•	Hopkinton, MA 01/748	
Date: 9/14/2021		
, , , , , , , , , , , , , , , , , , ,	Inventor's Signature	
Full name of inventor	Jeremy O'Hare	
Residence	Westborough, MA	
Citizenship	US	
Mailing Address	176 South Street	
••	Honkinton, MA 01748	

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IN TESTIMONY WHEREOF, I/we have hereunto set our hands and affixed our seals as set forth below:

Date:	/Venkata Ippatapu/	
	Inventor's Signature	
Full name of inventor	Venkata Ippatapu	
Residence	Westborough, MA	
Citizenship	INDIA	
Mailing Address	176 South Street	
· ·	Hopkinton, MA 01748	
Date:		
	Inventor's Signature	
Full name of inventor	Jeremy O'Hare	
Residence	Westborough, MA	
Citizenship	US	
Mailing Address	176 South Street	
_	Hopkinton, MA 01748	

Date:	
	Inventor's Signature
Full name of inventor Residence	Anoop Raghunathan Ashland, MA
	•
Citizenship	US
Mailing Address	176 South Street
	Hopkinton, MA 01748