

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>DAMON HSU-HUNG</td> <td>02/27/2013</td> </tr> <tr> <td>KANNAN SASI</td> <td>03/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	DAMON HSU-HUNG	02/27/2013	KANNAN SASI	03/11/2013
Name	Execution Date						
DAMON HSU-HUNG	02/27/2013						
KANNAN SASI	03/11/2013						
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							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13796876</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13796876		
Property Type	Number						
Application Number:	13796876						
CORRESPONDENCE DATA							
Fax Number:	(978)341-0136						
Phone:	978-341-0036						
Email:	nicole.isabelle@hbsr.com						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	MARY LOU WAKIMURA, ESQ.						
Address Line 1:	530 VIRGINIA ROAD, P.O. BOX 9133						
Address Line 2:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C.						
Address Line 4:	CONCORD, MASSACHUSETTS 01742-9133						
ATTORNEY DOCKET NUMBER:	3721.1017-000						
NAME OF SUBMITTER:	NICOLE ISABELLE						
Signature:	/Nicole Isabelle/						
Date:	10/16/2013						

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Total Attachments: 8

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JointASSIGNMENT

WHEREAS, we, **Damon Hsu-Hung and Kannan Sasi**, have invented a certain improvement in **Automatic Failure Recovery Using Snapshots And Replicas** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. [], filed [];
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and is assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **Dell Products, LP** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **One Dell Way, Round Rock, Texas 78682** desires to confirm its 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, 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 on said invention; 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; we hereby convey 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 any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, 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; we hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

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 any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase 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 each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____



Damon Hsu-Hung

State/Commonwealth

of NH

County of Hillsborough

On this 27 day of February 2018, before me, the undersigned notary public, personally appeared Damon Hsu-Hung,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

FARRELL T. WOODS
Notary Public - New Hampshire
My Commission Expires February 22, 2017

Notary Public



Farrell T. Woods (print name)

My Commission expires 2/22/2017

Inventor's Signature: _____

Kannan Sasi

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Kannan Sasi,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public _____

(print name)

My Commission expires ____/____/____

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Damon Hsu-Hung

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Damon Hsu-Hung,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public _____

(print name)

My Commission expires ____ / ____ / ____

Inventor's Signature: [Signature]
Kannan Sasi

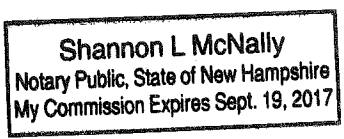
State/Commonwealth
of New Hampshire
County of Hillsborough

On this 1st day of March 2013, before me, the undersigned notary public, personally appeared Kannan Sasi,

personally known to me, or
 proved to me through satisfactory evidence of identification, which was
NH drivers license

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public [Signature]
Shannon McNally (print name)
My Commission expires 09/19/2017