PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6231770

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAN AHARONI	07/30/2020
ITAY KELLER	07/30/2020
SANJAY NARAHARI	07/30/2020
RON STERN	07/30/2020

RECEIVING PARTY DATA

Name:	EMC IP HOLDING COMPANY LLC	
Street Address:	176 SOUTH STREET	
City:	HOPKINTON	
State/Country:	MASSACHUSETTS	
Postal Code:	01748	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16983423

CORRESPONDENCE DATA

Fax Number: (631)393-6271

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: (631)393-6270

Email: nyoffice@rml-law.com **Correspondent Name:** JOSEPH B. RYAN

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ATTORNEY DOCKET NUMBER:	120856.01
NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/Joseph B. Ryan/
DATE SIGNED:	08/03/2020

Total Attachments: 6

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> **PATENT** REEL: 053384 FRAME: 0363 506185031

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> PATENT REEL: 053384 FRAME: 0364

ASSIGNMENT

WHEREAS, we, Dan Aharoni, Itay Keller, Sanjay Narahari and Ron Stern, 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 DEFERRED RECLAMATION OF INVALIDATED ENTRIES THAT ARE ASSOCIATED WITH A TRANSACTION LOG IN A LOG-STRUCTURED ARRAY, the specification of which:

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

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company organized and existing under the laws of the State of Delaware and 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, 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; 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

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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.

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

Date: July 30th 2020	Inventor's Signature
	mvemor's Signature
Full name of first inventor:	Dan Aharoni
Residence:	Brookline, Massachusetts
Citizenship:	United States of America; Israel
Mailing Address:	47 Winchester Street #1
	Brookline, Massachusetts, 02446
Date:	
	Inventor's Signature
Full name of second inventor:	Itay Keller
Residence:	Tel Aviv, Israel
Citizenship:	Israel
Mailing Address:	4 Hana Orlov Street
	Tel Aviv, Israel
T)	
Date:	
	Inventor's Signature
Full name of third inventor:	Sanjay Narahari
Residence:	Hopkinton, Massachusetts
Citizenship:	United States of America
Mailing Address:	3 Honeysuckle Circle
	Hopkinton, Massachusetts, 01748

Date:	
	Inventor's Signature
Full name of first inventor:	Dan Aharoni
Residence:	Brookline, Massachusetts
Citizenship:	United States of America; Israel
Mailing Address:	47 Winchester Street #1
	Brookline, Massachusetts, 02446
Date: 3017-12020	Inventor's Signature
Full name of second inventor:	Itay Keller
Residence:	Tel Avív, Israel
Citizenship:	Israel
Mailing Address:	4 Hana Orlov Street
	Tel Avív, Israel
Date:	
	Inventor's Signature
Full name of third inventor:	Sanjay Narahari
Residence:	Hopkinton, Massachusetts
Citizenship:	United States of America
Mailing Address:	3 Honeysuekle Circle
	Hopkinton, Massachusetts, 01748

Date:	
	Inventor's Signature
Full name of first inventor:	Dan Aharoni
Residence:	Brookline, Massachusetts
Citizenship:	United States of America; Israel
Mailing Address:	47 Winchester Street #1
	Brookline, Massachusetts, 02446
Date:	
	Inventor's Signature
Full name of second inventor:	Itay Keller
Residence:	Tel Aviv, Israel
Citizenship:	Israel
Mailing Address:	4 Hana Orlov Street
	Tel Aviv, Israel
Date: $\frac{7/30/2020}{}$	Sanjuy Marahari Inventor's Signature
Full name of third inventor:	Sanjay Narahari
Residence:	Hopkinton, Massachusetts
Citizenship:	United States of America
Mailing Address:	3 Honeysuckle Circle
	Hopkinton, Massachusetts, 01748

PATENT/Joint Assignment Attorney Docket No.: 120856.01

Date: 07/30/2020 Ron Loy

Inventor's Signature

Full name of fourth inventor: Ron Stern

Residence: Sharon, Massachusetts

Citizenship: United States of America; Israel

Mailing Address: 46 Azalea Road

Sharon, Massachusetts, 02067