505026481 07/30/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
NATURE OF CONVEY	ANCE:	ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY	DATA					
		Name	Execution Date			
SHELESH CHOPRA			07/17/2018			
SOUMEN ACHARYA	07/17/2018					
AADITYA RAKESH BA	ANSAL		07/17/2018			
SUNIL YADAV			07/17/2018			
RECEIVING PARTY D	ΑΤΑ					
Name:	EMC IF	P HOLDING COMPANY LLC				
Street Address:	176 SC	DUTH STREET				
City:	НОРКІ	NTON				
State/Country:	MASS	ACHUSETTS				
Postal Code:	01748					
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ASSIGNMENT

WHEREAS, we, Shelesh Chopra, Soumen Acharya, Aaditya Rakesh Bansal, and Sunil Yadav 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 *METHOD AND SYSTEM FOR ACCESSING VIRTUAL MACHINE STATE WHILE VIRTUAL MACHINE RESTORATION IS UNDERWAY* 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 No. ______on_____

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts 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,

PATENT REEL: 046501 FRAME: 0076 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.

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

PATENT/Joint Assignment EMC Docket No.: 111341.01; 170360-022700US

Date: 17 July 2018

Print full

W

Inventor's Signature

Print full name of first inventor:	Shelesh Chopra
Residence:	Bangalore, India
Citizenship:	India
Mailing Address:	c/o EMC IP Holding Company LLC
	176 South Street
	Hopkinton, Massachusetts 01748

I GURURAS SOMA MAHADEVADURA,	(name) whose residential address is BANGALORE
was personally present and did see the assignment) who is personally k	SHELECH LHOPRA (name of person signing nown to me, execute the above assignment. (signature of first witness)
Signed at BANGALORE	(location of witness signature)
on this day 17 July	
was personally present and did see the assignment) who is personally k	(name) whose residential address is <u>REEN HOUSE LY</u> , <u>ELECTRONICE CITY</u> , <u>BARGAUSE</u> <u>SHELESH CHOPAA</u> (name of person signing nown to me, execute the above assignment.
4462	(signature of second witness)

Signed at <u>BANGALORE</u> (location of witness signature) on this day 17 July of 2010. (date of signature)

PATENT/Joint Assignment EMC Docket No.: 111341.01; 170360-022700US

Date: 17 July 2018	- Solumin Arlans 1
	Inventor's Signature
Print full name of second inventor:	Soumen Acharya
Residence:	Bangalore, India
Citizenship:	India
Mailing Address:	c/o EMC IP Holding Company LLC
	176 South Street
	Hopkinton, Massachusetts 01748
I GURURAS SOMA MAHADEVPURA	(name) whose residential address is BANGALORE
was personally present and did see	<u>Soumen ACHARYA</u> (name of person signing white the above assignment.
Gurrisaj lama	(signature of first witness)
Signed at BANGALORE	(location of witness signature)
on this day 17 July	_ of 20 <u>1</u> %. (date of signature)
I PAGNAVALKYA CH GO1, SRIKARA VAASAFT, was personally present and did see _ S	(name) whose residential address is <u>GREEN HOUSE LY, ELECTRONILS UT7</u> , BANGALORE OUMEN ACHARYA (name of person signing
the assignment) who is personally kno	wn to me, execute the above assignment.
mart ?"	(signature of second witness)
on this day 17 July	(location of witness signature) of 20 <u>17</u> . (date of signature)

			PATENT/Joint Assignment EMC Docket No.: 111341.01; 170360-022700US
Date:	17 July	2018	Adutzsul
			Inventor's Signature

Aaditya Rakesh Bansal Bangalore, India India c/o EMC IP Holding Company LLC 176 South Street Hopkinton, Massachusetts 01748

I YAGNAVALKYA CH (name) whose residential address is GOL SELKAKA VARKAS APT, GREEN HOUSE LY, ELELTRONICS CITY, BANGAURE was personally present and did see AADITYA RAKESH GANSAL (name of person signing the assignment) who is personally known to me, execute the above assignment.

272 (signature of first witness)

Print full name of third inventor:

Residence:

Citizenship:

Mailing Address:

Signed at BANGALORE (location of witness signature)

on this day <u>17 July</u> of 20 <u>18</u>. (date of signature)

x	RURAJ		(name) BANGALO	whose resid	tential address is
					BANS name of person signing
the assignm	ent) who is	personally ki	own to me, exe	cute the ab	ove assignment.
Course	rag Lou	1. (A	(signature	e of second	witness)
Signed at	BANG	GALORE	MW283).4	(locati	on of witness signature)
on this day	IF J.	rly	of 20 <u>18</u> . (a	late of sign	ature)

-5-

PATENT/Joint Assignment EMC Docket No.: 111341.01; 170360-022700US

Date:	17 July 2016	S
		Inventor's Signature

Print full name of fourth inventor:

Residence:

Citizenship:

Mailing Address:

Sunil Yadav Bangalore, India India c/o EMC IP Holding Company LLC 176 South Street Hopkinton, Massachusetts 01748

I YAGNAVALKYA CH (name) whose residential address is GO2, SRIKARA VAREAS APT, GREEN HOUSE LY, ELECTRONICS (ITY, BANGALORE) was personally present and did see <u>SONIL YADAV</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.

(signature of first witness)

Signed at <u>BANGALORE</u> (location of witness signature)

on this day 17 July of 2018. (date of signature)

I	GUR A	URA-	SEVPURA	, BA	(name NGALOR) whose res	idential address is
							(name of person signing
the as	signme	ent) whe	o is persona	lly knov	vn to me, ez	cecute the a	bove assignment.
	Gur	innay	Some	×-184=*	(signatu	ire of secon	d witness)
Signe	d at	٢	3ANGA1	ORE		(loca	tion of witness signature)
on thi	s day _	17	July		_of 20 <u>18</u> ,	(date of sig	gnature)

RECORDED: 07/30/2018