### 504993050 07/06/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5039798

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
SHELESH CHOPRA			07/05/2018	
KWANGYOUNG JUNG	Ì		07/03/2018	
SCOTT RANDOLPH Q	UESNEL	_E	07/03/2018	
BAN WANG			07/03/2018	
SANJEEV KUMAR LOF	HCHAB		07/05/2018	
SREELATHA POBBAT	HI		07/04/2018	
RECEIVING PARTY D	ΔΤΑ			
Name:		P HOLDING COMPANY LLC		
Street Address:	176 SC	DUTH STREET		
City:	НОРК	NTON		
State/Country:	MASS	MASSACHUSETTS		
Postal Code:	01748	01748		
	_			
PROPERTY NUMBERS			1	
Property Type		Number		
Application Number: 1602		16028711		
using a fax number, if	be sent t	o the e-mail address first; if that is uns d; if that is unsuccessful, it will be sen		
Email: paula.hardilek@chamberlainlaw.com				
Correspondent Name:PAULA HARDILEKAddress Line 1:1200 SMITH ST., 14TH FLOOR				
Address Line 1:				
ATTORNEY DOCKET NUMBER:		170360-023500US		
NAME OF SUBMITTER:		ALY Z. DOSSA		
			/Aly Z. Dossa/	
SIGNATURE:		/Aly Z. Dossa/		
		/Aly Z. Dossa/ 07/06/2018		

source=Assignment as filed\_2018.07.06 (170360-023500US)#page1.tif

source=Assignment as filed_2018.07.06 (170360-023500US)#page2.tif
source=Assignment as filed_2018.07.06 (170360-023500US)#page3.tif
source=Assignment as filed_2018.07.06 (170360-023500US)#page4.tif
source=Assignment as filed_2018.07.06 (170360-023500US)#page5.tif
source=Assignment as filed_2018.07.06 (170360-023500US)#page6.tif
source=Assignment as filed_2018.07.06 (170360-023500US)#page7.tif
source=Assignment as filed_2018.07.06 (170360-023500US)#page8.tif

# ASSIGNMENT

WHEREAS, we, Shelesh Chopra, Kwangyoung Jung, Scott Randolph Quesnelle, Ban Wang, Sanjeev Kumar Lohchab, and Sreelatha Pobbathi, 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 <u>SYSTEM AND METHOD FOR ORCHESTRATED</u> <u>APPLICATION PROTECTION</u>, 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,

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.: 111643.01; 170360-023500US

9/2018 Date: 51

Inventor's Signature

# Shelesh CHOPRA

Print full name of first inventor: Residence: Citizenship: Mailing Address:

Bangalore, India	
India	
c/o EMC IP Holding Company Ll 176 South Street	LĊ
Hopkinton, MA 01748	

1 SHAMBHU PRASAD JALSWAL (name) whose residential address is - 1649, 142 nd 2014 and <u>Tayoul</u>, <u>Butk rapses c</u> uillage <u>Bounerglathe past</u>, <u>floore</u> <u>Rongdon - 5100 e</u> was personally present and did see <u>Chike Full</u> <u>Chief Past</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.

gi Us

(signature of first witness)

Signed at	&à	galare.	 (location	of	witness	signatur	(3)
		V				· · · · · · · · · · · ·	
	< 5. <sup>1</sup>						

on this day 5	17/2018	of 20 <u>1</u> ,	(date of signature)

1 Sam / Lev	K Lohd-	ab (name)	whose residenti	ial address is and 40 High	: 13 . I
1192, 3a	A (npan,	Sauto AU	land lay	and 40th964	pargalo-
was personally pr	resent and did see	Shelish	Chopha	(name of person si	gning (6082
the assignment) v	vho is personally k	nown to me, ex-	ecute the above	assignment.	

$\sim$	on jelk	(signature of second witness)
Signed at	Bangalor	(location of witness signature)
on this day	<u>sl</u> <del>ź</del>	of 20 <u>18</u> (date of signature)

-3-

PATENT **REEL: 046285 FRAME: 0579** 

iy.

#### **PATENT/Joint Assignment** EMC Docket No.: 111643.01; 170360-823500US

July 3rd, 2018 Date:

Inventor's Signature

Print full name of second inventor:

Residence:

Citizenship:

Mailing Address:

**Kwangyoung JUNG** Mississauga, Canada Canada c/o EMC IP Holding Company LLC 176 South Street Hopkinton, MA 01748

 I Scott Randorph OLFSWELLE (name) whose residential address is

 FHU MARLEY CRT BURLINGTED, QU LTT 355

 was personally present and did see KMANGYOUNG JUNCE (name of person signing)

the assignment) who is personally known to me, execute the above assignment.

(signature of first witness)

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

on this day <u>JULY 3RD</u> of 20 K. (date of signature)

I <u>Read WANG</u> (name) whose residential address is <u>1404</u> <u>Transfer</u> <u>Park Dr. Redigter</u> <u>(name)</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.

	: <b>X</b>	(signal	ture of second witness)
Signed at	Burlington , OSI	. Carrolla	(location of witness signature)
	Toly_ Id		(date of signature)

-4-

## **PATENT/Joint Assignment** EMC Docket No.: 111643.01; 170360-023500US

Date: JULY BRD 2018

S-AL-N Inventor's Signature

Print full name of third inventor:

Residence:

Citizenship:

Mailing Address:

Scott Randolph QUESNELLE

Burlington, Canada Canada

c/o EMC IP Holding Company LLC 176 South Street Hopkinton, MA 01748

I Kwang Young Jung (name) whose residential address is 5255 palmette place unit 134 History ON Canada (GM OH 2 was personally present and did see Scatt Quesnelle (name of person signing the assignment) who is personally known to me, execute the above assignment.

(signature of first witness)

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

on this day July 3rd of 2018. (date of signature)

I <u>Base WAVG</u> (name) whose residential address is <u>1404</u> <u>Just Less</u> <u>Part Dr. Burlington</u> <u>ON</u> <u>Canada</u> was personally present and did see <u>Source Canada</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.

(signature of second witness) Signed at <u>Andrewster</u> ON <u>Canada</u> (location of witness signature) on this day <u>Judy 3rd</u> of 20 /<u>&</u>. (date of signature)

. ×.

#### PATENT/Joint Assignment EMC Docket No.: 111643.01: 170360-023500US

Date: 2018-07-03

Worghan

Ban WANG

Inventor's Signature

Print full name of fourth inventor:

Residence:

Citizenship:

Mailing Address:

Burlington, Canada China c/o EMC IP Holding Company LLC 176 South Street Hopkinton, MA 01748

 1
 Kwangyoung
 Jung
 (name) whose residential address is

 5255
 palmetto pl
 Anit 134
 Mississauge
 ON
 Canada
 L5MoH2

 was personally present and did sec
 Base
 Wang
 (name of person signing the assignment) who is personally known to me, execute the above assignment.

Signed at Burlington, Canada (location of witness signature)

on this day July 3rd of 2018, (date of signature)

 $\frac{15 \log \pi}{244} \frac{24000}{2400} \frac{241}{240} \frac{241}{240$ 

,RN-NV (signature of second witness)

Signed at BURLINGTON 102/ (location of witness signature)

on this day  $\mathcal{TUCY} \mathcal{R}^{\mathcal{LO}}$  of  $20 \underline{/K}$ . (date of signature)

0 **(** )00

**PATENT**/Joint Assignment EMC Docket No.: 111643.01; 170360-023500US

5/7/2018 Date:

Inventor's Signature

Print full name of fifth inventor: Residence: Citizenship:

Mailing Address:

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

Sanjeev Kumar LOHCHAB

1 SHAMBHU PRASED THISWAL (name) whose residential address is 1649, Non-dan Vaun layoul BUKKAS your of holes. Bananglatta POST. Tigani, Bangeloxe - 660083 was personally present and did see <u>SHALESH CHEPRA</u> (name of person signing the assignment) who is personally known to me, execute the above assignment.

91 Jul LO (signature of first witness)

Signed at \_\_\_\_\_\_\_ Sa/ac\_\_\_\_\_ (location of witness signature)

on this day  $\frac{5}{7}$ 

CALL N P. L.	
1 Connal Q QOCION · KON MYCHOO · (name) whose residential address is	
1 Jonnalo godda - Kar in 150 (name) whose residential address is # hulding W0.56 Anonda nilayo 2 (ross 75 Hai Karradersi Naga) & Nasa ara y was personally present and did see <u>Sanjas</u> Kirrag Lo He (hime of person signing 5600 the assignment) who is personally known to me, execute the above assignment.	pung
was personally present and did see	16
the assignment) who is personally known to mk, execute the above assignment.	8.3
(signature of second witness)	
North Carlos and Carlo	
Signed at (location of witness signature)	
on this day of 20 18. (date of signature)	

PATENT REEL: 046285 FRAME: 0583

ŝ

# PATENT/Joint Assignment EMC Ducket No.: 111643.01; 170360-023500US

Date: 4-july-2.018	P.Scelalta Inventor's Signature
Print full name of sixth inventor:	Sreelatha POBBATHI
Residence:	Bangalore, India
Citizenship:	India
Mailing Address:	c/o EMC IP Holding Company LLC 176 South Street Hopkinton, MA 01748
the assignment) who is personally know	(signature of first witness)
Signed at Kangalove	(location of witness signature)
Signed at <u>Bangalove</u> on this day 4 <sup>th</sup> July	of 20 <u>18</u> . (date of signature)
, het	S (name) whose residential address is $2u_{f}$ <u>ICNAG AR</u> $\ell^{th}$ <u>PHASE</u> <u>B</u> <u>LORE</u> 7-8 (name of person signing n to me, execute the above assignment. (signature of second witness) (location of witness signature) of 20/8. (date of signature)

-8-

**RECORDED: 07/06/2018**