PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES A. MULLINS	09/29/2010
ALAN T. COONEY	09/29/2010
BRENDAN T. BUTLER	09/29/2010
GER V. HALLISSEY	09/29/2010
DEREK A. BARRETT	09/29/2010
JOHN CARMODY	09/29/2010
PAUL O'KEEFFE	09/29/2010
PAT J. HEALY	09/29/2010
LISA O'MAHONY	09/29/2010
PHILIP SHEEHAN	09/29/2010

RECEIVING PARTY DATA

Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12894660

CORRESPONDENCE DATA

Fax Number: (781)515-5450

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 508-435-1000

Email: KRISTEN.CAIZZI@RSA.COM

Correspondent Name: EMC CORPORATION OFFICE OF THE GENERAL CO

Address Line 1: 176 SOUTH STREET

PATENT

REEL: 025071 FRAME: 0020

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Address Line 4: HOPKINTON, MASSACHUSETTS 01748		
ATTORNEY DOCKET NUMBER:	EMC-09-235	
NAME OF SUBMITTER:	Joseph D'Angelo	
Total Attachments: 12		
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PATENT REEL: 025071 FRAME: 0021

ASSIGNMENT

WHEREAS, we, JAMES A. MULLINS, ALAN T. COONEY, BRENDAN T. BUTLER, GER V. HALLISSEY, DEREK A. BARRETT, JOHN CARMODY, PAUL O'KEEFFE, PAT J. HEALY, LISA O'MAHONY, and PHILIP SHEEHAN 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 DATA CENTER ENERGY MANAGER (Application), 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
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WHEREAS, EMC Corporation (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

PATENT REEL: 025071 FRAME: 0022 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 hereby authorize our attorneys, EMC Corporation, to insert here in parenthesis (_________) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

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

Date: $9/29/2010$	En Mullin
	Inventor's Signature
Print full name of first inventor:	JAMES A. MULLINS
Residence:	COIS COILTE, GURTEEN INNISCARRA,
	COUNTY CORK, IRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
,	
1 NANCI A. SHAFFER (name) whose full post office address is
(residential address) was personally present a	nton, MA 01748 and did see JAMES A, MUUNGame of
person signing the assignment) who is person	ally known to me, execute the above assignment.
Marcia Shallo	ature of first witness)
Signed at 176 50 wth St. Hopkel	nton, MA 01748
Signed at 176 500th 54. Hopf-A	ocation of witness signature)
on this day <u>September 39</u> of 20	<u>10</u> . (date of signature)
I DEEPIKA BHAYANA	name) whose full post office address is YNTON, MA CITYS and did see JAMES A, MULIN (name of
(residential address) was personally present as	addid see TANOFE A MINIMUM of
person signing the assignment) who is personal	ally known to me, execute the above assignment.
Doeble (si	gnature of second witness)
Signed at 176 Sour St. Hop	42 OF 0174
on this day <u>September 29</u> of 20	(date of signature)

-3-

Date: 29- Sep - 10	Inventor's Signature	
	Inventor's Signature	
Print full name of second inventor:	ALAN T. COONEY	
Residence:	32 CRANFORD PINES, BALLINCOLLIG,	
	COUNTY CORK, IRELAND	
Citizenship:	IRELAND	
Mailing Address:	SAME AS ABOVE	
I VALERIA MARNILI (1) Bloom FILED LIMERICK	(name) whose full post office address is and did see Dean (sone) (name of	
(residential address) was personally present	and did see Dean (son EY (name of	
person signing the assignment) who is perso $(1 \land \lambda)$	nally known to me, execute the above assignment.	
blo ta	signature of first witness)	
Signed at (location of witness signature)		
Signed at (location of witness signature) on this day 29 ⁺⁴		
7		
I JOHN KIROWY	(name) whose full post office address is HASH, WENS, CO. COPSIC and did see HAN CONEY. (name of	
(residential address) was personally present	and did see A any () (name of	
person signing the assignment) who is person	nally known to me, execute the above assignment.	
the lights (signature of second witness)	
Signed at CM (CORK of 29th / Str7 of 2	(location of witness signature)	
И / -	(location of whiless signature)	
on this day $29^{17} / Jerr of 2$	20 /rs (date of signature)	

Date: 29 Sept. 2010	Brendan BAC
•	Inventor's Signature
Print full name of second inventor:	BRENDAN T. BUTLER
Residence:	OAKHURST, DUNMORE LAWN,
	BOREENMANNA ROAD, COUNTRY
	CORK, IRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
I VALERIA MANNY	name) whose full post office address is
147 BloomFlas, Limerack,	name) whose full post office address is nd did see Brown Borrer (name of
person signing the assignment) who is person	ally known to me, execute the above assignment.
() a ()	•
Lobo Ma(si	gnature of first witness)
Signed at LYM (Love IC . (1	ocation of witness signature)
on this day 29H/SEP7 of 20) / s (date of signature)
0120	<u></u>
I Town Kicanii	
12 CESTURY, GRANGE MAN	name) whose full post office address is Nex Overs Co. (Clare nd did see Reserved Bazuer (name of
(residential address) was personally present as	nd did see Racion Bazier (name of
person signing the assignment) who is person	ally known to me, execute the above assignment.
(si	gnature of second witness)
Signed an Corc	
Signed at Care Care	(location of witness signature)
on this day 2 5 4 / 1 cm of 20	<u>(০</u> . (date of signature)

Date: 29/09/10	Gerl Hilling Inventor's Signature
	Inventor's Signature
Print full name of second inventor:	GER V. HALLISSEY
Residence:	92 OLD COURT, GREENFIELDS,
	BALLINCOLLIG, COUNTY CORK,
	IRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
I VACERIA. MANNEL	(name) whose full post office address is and did see Gen that (see (name of
(residential address) was personally present	and did see Come (tax) (see (name of
person signing the assignment) who is person	nally known to me, execute the above assignment.
Alon 1P(s	
Signed at GMC (SCIC	(location of witness signature)
Signed at $\frac{CMC}{CSCC}$ on this day $\frac{24H}{SCOO}$ of 2	O (O (date of signature)
on this day	. (date of signature)
12 50572 04 6040005 0000	(name) whose full post office address is and did see GER WALLISTY (name of
(residential address) was personally present	and did see (in that cust y (name of
person signing the assignment) who is person	nally known to me, execute the above assignment.
//2 /Cincl -	ignature of second witness)
Ifhn Kighs. (5	ngnature or second withess)
on this day $25^{14}/(427)$ of 2	(location of witness signature)
on this day $25 \frac{1}{1} / 1 = 7$ of 2	0 / \((date of signature)

Date: $29\sqrt{\tilde{\varphi}9/2\phi_{1}}$	tand had
,	Inventor's Signature
Print full name of second inventor:	DEREK A. BARRETT
Residence:	4 CLUAIN AN OIR, BELGOOLY,
	CARRIGALINE, COUNTYCORK,
	TRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
-	
I VACENIA MANNYA (name) whose full post office address is
(rapidential address) was personally report a	nd did see Pener Banne 77 (name of
person signing the assignment) who is person	ally known to me, execute the above assignment.
710	_
When the (si	gnature of first witness)
on this day 24th/ ferr of 20	
on this day 29th for of 20) (7. (date of signature)
	(5.0.2 5.2 5.3 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4
7	
I JOHN MOONING (name) whose full post office address is OUST! (G. CORK Ind did see DENEK 12 ARRETT (name of
(recidential address) was personally present a	nd did see District 12 April 17 (name of
person signing the assignment) who is person	ally known to me, execute the above assignment.
Λ . ι	
the Michan (si	gnature of second witness)
Signed at 1-MC, Core K	(location of witness signature)
acts/s	
on this day 29 ⁴⁴ /Jep7 of 20) (date of signature)

Date: 29-9-10	Inventor's Signature
Print full name of second inventor:	JOHN CARMODY
Residence:	48 DEWBERRY MOUNT OVAL VILLAGE, ROCHESTOWN, COUNTY CORK, IRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
(residential address) was personally prese	(location of witness signature)
(residential address) was personally prese person signing the assignment) who is personally prese person signing the assignment) who is personally prese person signing the assignment) who is personally prese person significant the assignment who is personally prese personally present pe	(location of witness signature)
on this day 2911/Sept 0	of 20 (c) (date of signature)

Date: 29th/827/2010	Inventor's Signature
	Inventor's Šignature
Print full name of second inventor:	PAUL O'KEEFFE
Residence:	67 SPRINGFORT, MONTENOTTE, CORK,
	IRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
person signing the assignment) who is person $\{1, 1, 2, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,$	name) whose full post office address is IN COLUMN (name of lally known to me, execute the above assignment. Ignature of first witness) location of witness signature) O(> . (date of signature)
person signing the assignment) who is person (signed at $e^{\mathcal{M}}$	name) whose full post office address is and the content of the con
on this day 29th/Str7 of 20	0 <u>/</u> c. (date of signature)

Date: 29/09/10	Inventor's Signature
•	Inventor's Signature
Print full name of second inventor:	PAT J. HEALY
Residence:	4 IVY CRESCENT RIVERWAY, SOUTH
	DOUGLAS ROAD, COUNTY CORK,
	IRELAND
Citizenship:	IRELAND
Mailing Address:	SAME AS ABOVE
I VALERIA MANNILI 147 BLOOM FIRED LIN	(name) whose full post office address is neucic ent and did see
(residential address) was personally presuperson signing the assignment) who is pe	ent and did see / A 1 HEMLY (name of ersonally known to me, execute the above assignment.
Valo 1C	_ (signature of first witness)
Signed at EMC (021C	
on this day 29 4/SEP7	of 20 <u>/o</u> . (date of signature)
I John Kickers	(name) whose full post office address is ent and did see Pri Heary (name of
(residential address) was personally presidential	ent and did see Par Ataly (name of
person signing the assignment) who is per	ersonally known to me, execute the above assignment.
A Kings	_ (signature of second witness)
Signed a CORK	of 20 (2) (date of signature)
on this day 29th/(1997	of 20 () (date of signature)

Date: 29/9/2010	Liga OMahang. Inventor's Signature	
Print full name of second inventor: Residence: Citizenship: Mailing Address:	LISA O'MAHONY 39 COPPER VALLEY HEIGHTS, GLANMIRE, LUN CORK, TRELAND TRELAND SAME AS ABOVE	
I MANNE (name) whose full post office address is 147 (Seconfied), Limenical (residential address) was personally present and did see List o Manne (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at EMC (621C (location of witness signature) on this day 7916/SET of 2010. (date of signature)		
(residential address) was personally present	(location of witness signature)	

Date: 29/9/2010	Cht Spal	
	Inventor's Signature	
Print full name of second inventor: Residence: Citizenship: Mailing Address:	PHILIP SHEEHAN 115 OLDCOURT, P.S. GREENELEUS, BRICERCOLLEG, CORK, INFLAND SAME AS ABOVE	
I VALERIA MANNO (name) whose full post office address is (residential address) was personally present and did see Phillip Shannon (name of person signing the assignment) who is personally known to me, execute the above assignment.		
Uala PC (s		
V		
Signed at <u>LMC</u> ON CO. COM (location of witness signature) on this day <u>25¹⁴ SAT</u> of 20 <u>10</u> . (date of signature)		
I JoHN ICIGAINIS	name) whose full post office address is CONE and did see PHUN SHEENAN (name of	
(residential address) was personally present a person signing the assignment) who is person	and did see PHUP SHOWAY (name of nally known to me, execute the above assignment.	
Allegra (s	ignature of second witness)	
signeday CMC, ONEN, CO. CO	(location of witness signature)	
on this day 29 tyser7 of 2	0 <u> (○</u> . (date of signature)	

RECORDED: 09/30/2010