PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3405089

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAMAR WISEMON	12/07/2014
IKA BAR-MENACHEM	12/07/2014
MAYA HERSKOVIC	12/07/2014
THEODOR MIHALACHE	12/08/2014
AVIV AVITAL	12/07/2014
AYELET AVNI	12/09/2014

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:	14565739

CORRESPONDENCE DATA

Fax Number: (508)366-4688

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: 508-616-2900

Email: Docket@BainwoodHuang.com

BAINWOOD, HUANG & ASSOCIATES, LLC **Correspondent Name:**

Address Line 1: 2 CONNECTOR ROAD

Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	1048-235
NAME OF SUBMITTER:	DAVID E. HUANG, ESQ.
SIGNATURE:	/David E. Huang/
DATE SIGNED:	06/19/2015

Total Attachments: 18

PATENT REEL: 035943 FRAME: 0300

503358467

source=1048-235 - Executed Assignment Inv1#page1.tif	
source=1048-235 - Executed Assignment Inv1#page2.tif	
source=1048-235 - Executed Assignment Inv1#page3.tif	
source=1048-235 - Executed Assignment Inv2#page1.tif	
source=1048-235 - Executed Assignment Inv2#page2.tif	
source=1048-235 - Executed Assignment Inv2#page3.tif	
source=1048-235 - Executed Assignment Inv3#page1.tif	
source=1048-235 - Executed Assignment Inv3#page2.tif	
source=1048-235 - Executed Assignment Inv3#page3.tif	
source=1048-235 - Executed Assignment Inv4#page1.tif	
source=1048-235 - Executed Assignment Inv4#page2.tif	
source=1048-235 - Executed Assignment Inv4#page3.tif	
source=1048-235 - Executed Assignment Inv5#page1.tif	
source=1048-235 - Executed Assignment Inv5#page2.tif	
source=1048-235 - Executed Assignment Inv5#page3.tif	
source=1048-235 - Executed Assignment Inv6#page1.tif	
source=1048-235 - Executed Assignment Inv6#page2.tif	
source=1048-235 - Executed Assignment Inv6#page3.tif	

PATENT REEL: 035943 FRAME: 0301

Attorney Docket No.: 1048-235 EMC Docket No.: EMC-14-0431

ASSIGNMENT

WHEREAS, I, <u>Tamar Wisemon</u>, as the original inventor or an original joint inventor 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

DETECTING MOBILE DEVICE EMULATION

which is further identified by Attorney Docket Number 1048-235;

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, USA desires to acquire an interest therein in accordance with agreements duly entered into with me:

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, I 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 me had this assignment and sale not been made; I 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. I 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;

EMC Docket No.: EMC-14-0431

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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14)565,739 filed 12/10/2014) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Date: Deamber 7, 2014	Tamblin
	Inventor's Signature
Print full name of first inventor:	Tamar Wisemon
Residence:	Nehar HaYarkon 22/1
	Beit Shemesh 99640
	Israel
Citizenship:	IL .
Mailing Address:	Same as above
1 Abby Weisberg 2 Rinbot Avalranust Jenus	(name) whose residential address is
was personally present and did	d see Tame WSCMON (name personally known to me, execute the above
abylished	_ (signature of first witness)
Signed at Harrada & Herzilya To	rau(location of witness signature)
on this day <u>December</u> 7	of 20 <u>년</u> . (date of signature)
1 Sava Tsuber; 19 Hagefer St. Bognora Ise	(name) whose residential address is
was personally present and die	see Tamer unisemm (name
of person signing the assignment) who is assignment.	personally known to me, execute the above
San Toubici	_ (signature of second witness)
Signed at Hanach 7, Herilya, I	(location of witness signature)
on this day Transaction - T	of 20 14 (date of signature)

ASSIGNMENT

WHEREAS, I, <u>Ika Bar-Menachem</u>, as the original inventor or an original joint inventor 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

DETECTING MOBILE DEVICE EMULATION

which is further identified by Attorney Docket Number 1048-235;

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, USA desires to acquire an interest therein in accordance with agreements duly entered into with me:

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, I 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 me had this assignment and sale not been made; I 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. I 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;

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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14565,73961edi21012014) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Date: 12/7/2014	
	Inventor's Signature
Print full name of first inventor:	Ika Bar-Menachem
Residence:	Rachel 2/2
	Herzelia 46221
	Israel
Citizenship:	IL
Mailing Address	Same as above
was personally present and d of person signing the assignment) who is assignment.	(name) whose residential address is 12 Rganana id see 1ka Day memochem (name s personally known to me, execute the above
-	(signature of first witness)
Signed at Heraliga COE	(location of witness signature)
on this day	of 2014 (date of signature)
Tul Bur Zur Hanar des was personally present and d	(name) whose residential address is 35 Kiry at Out id see Tka Bar Mendagar (name
of person signing the assignment) who i assignment.	s personally known to me, execute the above
	(signature of second witness)
Signed at Herzelia Co	(location of witness signature)
on this day $12/91$	of 20 1/2 (date of signature)

Attorney Docket No.: 1048-235 EMC Docket No.: EMC-14-0431

ASSIGNMENT

WHEREAS, I, <u>Maya Herskovic</u>, as the original inventor or an original joint inventor 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

DETECTING MOBILE DEVICE EMULATION

which is further identified by Attorney Docket Number 1048-235;

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, USA desires to acquire an interest therein in accordance with agreements duly entered into with me:

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, I 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 me had this assignment and sale not been made; I 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. I 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;

EMC Docket No.: EMC-14-0431

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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14)565,739 filed 12/10/2014) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Attorney Docket No.: 1048-235 EMC Docket No.: EMC-14-0431

Date: 12/7/2014	~ KN
	Inventor's Signature
Print full name of first inventor:	Maya Herskovic
Residence:	47 Shmuel Tamir Street
	Tel Aviv 69637
	Israel
Citizenship:	IL
Mailing Address:	Same as above
1 Guy Rencon 75 Ibo Grind St	(name) whose residential address is Tel Ariv Israel
was personally present and die	d see <u>Mand Herskovic</u> (name
	personally known to me, execute the above
assignment.	
48	(signature of first witness)
Signed at Hertzligy Escal	(location of witness signature)
	of 2014. (date of signature)
1 day Ga Zal	(name) whose residential address is
was personally present and di	d see Muya hellkova (name
of person signing the assignment) who is	personally known to me, execute the above
assignment.	And the second s
	(signature of second witness)
Signed at Helt 21/4	「Lue」 (location of witness signature)
on this day DEC 7-th	of 2017 ((date of signature)

EMC Docket No.: EMC-14-0431

ASSIGNMENT

WHEREAS, I, <u>Theodor Mihalache</u>, as the original inventor or an original joint inventor 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

DETECTING MOBILE DEVICE EMULATION

which is further identified by Attorney Docket Number 1048-235;

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, USA desires to acquire an interest therein in accordance with agreements duly entered into with me:

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, I 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 me had this assignment and sale not been made; I 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. I 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;

EMC Docket No.: EMC-14-0431

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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14\565,739\filed 12\10\2014) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Date: 12/8/2014	(V31L8)
	Inventor's Signature
Print full name of first inventor:	Theodor Mihalache
Residence:	123/9 Namir Street
	Tel Aviv 62507
	Israel
Citizenship:	.IL
Mailing Address:	Same as above
was personally present and did	(name) whose residential address is I see Theodox Minglache (name personally known to me, execute the above
	(signature of first witness)
Signed at Herzeling Israel	(location of witness signature)
	of 20 <u>14</u> . (date of signature)
1 Joseph Kill Mark	(manna)haaa maaidantiisi addussa is
Moshe bayon 40 Hol	name) whose residential address is
was personally present and did	see Theodor Minglacke (name
of person signing the assignment) who is assignment.	personally known to me, execute the above
assignment.	
	_ (signature of second witness)
Signed at Herzelia Israc	(location of witness signature)
on this day December 8th	of 20 14 (date of signature)

Attorney Docket No.: 1048-235 EMC Docket No.: EMC-14-0431

ASSIGNMENT

WHEREAS, I, <u>Aviv Avital</u>, as the original inventor or an original joint inventor 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

DETECTING MOBILE DEVICE EMULATION

which is further identified by Attorney Docket Number 1048-235;

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, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

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, I 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 me had this assignment and sale not been made; I 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. I 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;

EMC Docket No.: <u>EMC-14-0431</u>

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, I 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;

Attorney Docket No.: 1048-235 EMC Docket No.: EMC-14-0431

Date: Dec 7th 2014	
DEC 1 2014	
	Inventor's Signature
Print full name of first inventor:	Aviv Avital
Residence:	1/9 Uzi Narkis St.
·	Be'er Sheva 8471213
	Israel
Citizenship:	IL
Mailing Address:	Same as above
-	
Meir Grossman 23 Bear was personally present and die	(name) whose residential address is ShcvA
of person signing the assignment) who is assignment.	personally known to me, execute the above
	_ (signature of first witness)
Signed at EMC BOOK Shova	(location of witness signature)
on this day Dec. 7th	of 20 <u>44</u> . (date of signature)
Majzel Ergenj 1317 kahiri st. Bir sher	(name) whose residential address is A lyrand (name)
was personally present and did	d see <u>A viv A vitad</u> (name personally known to me, execute the above
assignment.	personally known to me, excede the above
	(signature of second witness)
Signed at COE EMC Beerste.	(location of witness signature)
on this day O7 December	of 20 <u>(억</u> . (date of signature)

Attorney Docket No.: 1048-235 EMC Docket No.: EMC-14-0431

ASSIGNMENT

WHEREAS, I, <u>Ayelet Avni</u>, as the original inventor or an original joint inventor 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

DETECTING MOBILE DEVICE EMULATION

which is further identified by Attorney Docket Number <u>1048-235</u>;

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, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

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, I 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 me had this assignment and sale not been made; I 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. I 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;

EMC Docket No.: EMC-14-0431

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, I 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 I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (14565,739 filed 12/10/2014) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

Date: 9 14	Azelet Ami
	Inventor's Signature
Print full name of first inventor:	Ayelet Avni
Residence:	Hayuval 13
	Binyamina 30500
	Israel
Citizenship:	IL
Mailing Address:	Same as above
was personally present and di of person signing the assignment) who is assignment.	(name) whose residential address is ANOWA ISRIE d see ASELE AND (name s personally known to me, execute the above (signature of first witness) (location of witness signature)
on this day DRC 986	of 20 1 4. (date of signature)
Kineryt Molayen Raviv Ren guryon 75 B was personally present and di	(name) whose residential address is The see fight from (name spersonally known to me, execute the above
	(signature of second witness)
Signed at H+v2 light	(location of witness signature)
on this day	of 20 L. (date of signature)