505890024 01/29/2020

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5936725

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARC BRETTE	11/07/2012
SUNITA CASULA	11/12/2012
FREDERIC CIMINERA	11/07/2012
EDWARD C. BUECHE	11/01/2012

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:	16717875

CORRESPONDENCE DATA

Fax Number: (512)371-9088

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: 512-637-9220

Email: phelberg@sprinklelaw.com SPRINKLE IP LAW GROUP **Correspondent Name:**

Address Line 1: 1301 WEST 25TH STREET, SUITE 408

Address Line 4: AUSTIN, TEXAS 78705

ATTORNEY DOCKET NUMBER:	OPEN5240-2
NAME OF SUBMITTER:	JOHN L. ADAIR
SIGNATURE:	/JOHN L. ADAIR/
DATE SIGNED:	01/29/2020

Total Attachments: 5

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PATENT REEL: 051664 FRAME: 0527 505890024

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PATENT REEL: 051664 FRAME: 0528

COPY FROM PARENT

Attorney Docket No.: 965-12-311 EMC Docket No.: EMC-12-311

ASSIGNMENT

WHEREAS, We, Marc Brette, Sunita Casula, Frederic Ciminera and Edward C. Bueche 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 METHODS AND SYSTEMS FOR PROVIDING A SEARCH SERVICE APPLICATION, the specification of which:

[]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on <u>June 29, 2012</u> as U.S. Application No. <u>13/538,207</u> ;
[]	was patented under U.S. Patent Noon

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 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,

-1-

REEL: 051664 FRAME: 0529

Attorney Docket No.: 965-12-311 EMC Docket No.: EMC-12-311

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: Date: Marc Brette Print full name of first inventor: Residence: 17 rue de la republique Domene, 38420, France Citizenship: France Mailing Address: Same as above I CARTIER MILLOW Bruno (name) whose residential address is 111 Chemin de Passe quatre 38190 BEKNEW FRANNCE was personally present and did see _____ Relte___ (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) (location of witness signature) Signed at November of 2012. (date of signature) (name) whose residential address is clos de la crossey, 38880 St PIERRE D'ALLEVARD FRANCE was personally present and did see North ROETTE (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at (location of witness signature) 7 November of 2012. (date of signature)

Attorney Docket No.: 965-12-311 EMC Docket No.: EMC-12-311

Date: 12th NOVEMBER 2012	Surity Caoulz Inventor's Signature
	8
Print full name of second inventor:	Sunita Casula
Residence:	408 Summercreek Lane
	San Ramon, CA
Citizenship:	United States of America
Mailing Address:	Same as above
who proved to me on the basis of satisfactory subscribed to the within instrument and ackno- in his/her/their authorized capacity(jes), and the	2012, before me appeared Sunta Casula evidence to be the person(s) whose name(s) is/are welledged to me that he she/they executed the same nat by his/her/their signature(s) on the instrument ch the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY und foregoing paragraph is true and correct.	er the laws of the State of California that the
WITNESS my hand and official seal.	
EUNHEE SONG COMM #1944100 rm Notary Public-California CONTRA COSTA COUNTY My Comm. Exp. AUG 11, 2015	Notary Public Print Name: Eunhee Song My Commission expires 8 / 11 / 2015

Attorney Docket No.: 965-12-311 EMC Docket No.: EMC-12-311

Residence: Meylan, Isère, 38240, France France Mailing Address: Same as above I CARTER MELLOW Burns (name) whose residential address is MA Changer de Pesse Qualite 38 (195 BERNTW FRANCE was personally present and did see CTNINGRA Fudure (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at MEG LAW (location of witness signature) on this day Probable of 2012. (date of signature) I TIRROUE Bruns (name) whose residential address is le close de la Cassey 28830 St Pierre NALLEUARD FRANCE was personally present and did see (ININERA FREDERIC (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at IEYLAN (location of witness signature)	Date: 07/11/2012	The second
Print full name of third inventor: Residence: 15 Avenue de Verdun Meylan, Isère, 38240, France Citizenship: France Mailing Address: Same as above 1 CARTLER MILLOW Burns (name) whose residential address is AN Changer de Pesse Antre 38(9 = BERNIW FRANCE was personally present and did see CININGRA France (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at MEGULAW (location of witness signature) on this day ANDRAL of 2012. (date of signature) I TARRUE BRUND (name) whose residential address is le clos de la Cossey 38830 St PIERRE NALLEUARD FRANCE was personally present and did see CININERA FRANCE (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at IEYLAN (location of witness signature)		Inventor's Signature
Meylan, Isère, 38240, France France Mailing Address: Same as above I CARTIER MILLOW Burns (name) whose residential address is AN Chamin As from antic 3819 BERNTW FRANCE was personally present and did see CININERA France (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at FIEU LAW (location of witness signature) on this day ANDVANE of 2012. (date of signature) I TARQUIE BRUNC (name) whose residential address is le clos de la Cassey 38830 Street Malieuard France was personally present and did see CININERA Franceleric (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at TEYLAN (location of witness signature)	Print full name of third inventor:	Frederic Ciminera
Citizenship: Mailing Address: Same as above I CARTLER MILLOW Burns (name) whose residential address is the change of the 38 (9° BERNTW FRANCE was personally present and did see CININERA Freduce (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at FIEU LAW (location of witness signature) on this day A Novanta of 2012. (date of signature) I TARQUE Brunco (name) whose residential address is le closed to correct the above assignment. (signature of second witness) Signed at TEVIAN (signature of second witness) Signed at TEVIAN (location of witness signature)	Residence:	15 Avenue de Verdun
Mailing Address: Same as above I CARTLER MILLOW Burns (name) whose residential address is AN Change do Pease Andre 38195 BERNTW FRANCE was personally present and did see CININERA Federa (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at MEGUE Bruns (location of witness signature) on this day ANDRANCE (name) whose residential address is le clos de la Cassey 38830 St PIERRE MALLEUARD FRANCE was personally present and did see CININERA FRANCE (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at TEYLAN (location of witness signature)		Meylan, Isère, 38240, France
I CARTLER MILLOW Bums (name) whose residential address is AM Changer de Passe Orner 38 (9° BERNTW FRANCE was personally present and did see CININERA Freduce (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at MEGULAW (location of witness signature) on this day AND (name) whose residential address is le clos de la Cassey 28830 Streete NALIEUARD FRANCE was personally present and did see CININERA FREDERIC (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at TEYLAN (location of witness signature)	Citizenship:	France
was personally present and did see CININGRA Fuduce (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of first witness) Signed at FEG LAW (location of witness signature) on this day A Noranka of 2012. (date of signature) I TARQUE Brunco (name) whose residential address is le clos de la Cassey 28830 St PIERRE VALLEURD FRANCE was personally present and did see CININERA FRANCE (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at TEYLAN (location of witness signature)	Mailing Address:	Same as above
Le clos de la Cassey 38830 St PIERRE DA LIEUARD FRANCE was personally present and did see CININERA FRENCE (name of person signing the assignment) who is personally known to me, execute the above assignment. (signature of second witness) Signed at TEYLAN (location of witness signature)	was personally present and did see CINI the assignment) who is personally known to r (si Signed at ME9 LAW (1)	38(9) BERNTW FRANCE (NERA Fredrice (name of person signing me, execute the above assignment. gnature of first witness) location of witness signature)
	was personally present and did see	SO S+ PIERRE VALLEUARD FRANCE ERA Fre oleric (name of person signing ne, execute the above assignment. (signature of second witness)
on this day Tween be of 2012. (date of signature)	_	

REEL: 051664 FRAME: 0532

Attorney Docket No.: 965-12-311 EMC Docket No.: EMC-12-311

Date: Nov 1,2012	Inventor's Signature
Print full name of fourth inventor:	Edward C. Bueche
Residence:	5066 Independence Dr.
	Pleasanton, CA 94566
Citizenship:	United States of America
Mailing Address:	Same as above
On this	
foregoing paragraph is true and correct. WITNESS my hand and official seal.	11 ans
***************************************	/ za
HASSAN ZAFARI Commission # 1941861 Notary Public - California	Notary Public
Alameda County My Comm. Expires Jul 17, 2015	Print Name: Hassan Zafar.
	My Commission expires 07/17/2015