

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4196167

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DANIEL DUFRESNE	12/20/2016
MATTHEW MULLINS	12/20/2016
ANTONIO FONTES	12/21/2016
PATRICK J. WEILER	12/20/2016
RECEIVING PARTY DATA	
Name:	EMC IP HOLDING COMPANY LLC
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15386736
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NAME OF SUBMITTER:	TONI M. SOUSA
SIGNATURE:	/Toni M. Sousa/
DATE SIGNED:	12/21/2016
Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

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ASSIGNMENT

WHEREAS, we, Daniel Dufresne, Matthew Mullins, Antonio Fontes, and Patrick J. Weiler 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 Fabric Management System and Method (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 No. _____ on _____.

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

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:

12/20/2016

Daniel Dufresne
Inventor's Signature

Print full name of inventor:

Daniel Dufresne

Residence:

Salem, NH

Citizenship:

United States

Mailing Address:

5 Remington Road
Salem, NH 03079

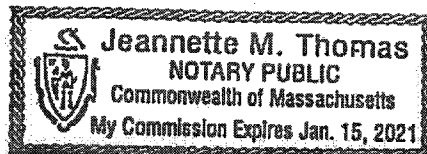
COMMONWEALTH OF Massachusetts
COUNTY OF Middlesex

On this 20th day of December, 2016, then personally appeared before me the above-named **Daniel Dufresne** known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) personally known to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Jeannette M. Thomas
Notary Public

Print Name: Jeannette M. Thomas

My Commission expires 1/15/2021



Date: 12/20/16

Matthew Mullins
Inventor's Signature

Print full name of inventor:

Matthew Mullins

Residence:

Upton, MA

Citizenship:

United States

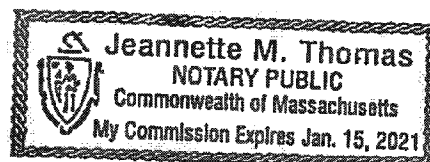
Mailing Address:

32 Florence Circle
Upton, MA 01568

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 20th day of December, 2016, then personally appeared before me the
above-named Matthew Mullins known to me through satisfactory evidence of identification
☐ employee identification card; ☐ driver's license; ☒ (other)
personally known to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Jeannette M Thomas
Notary Public
Print Name: Jeannette M Thomas
My Commission expires 1/15/2021



Date: 12.21-2016

[Signature]
Inventor's Signature

Print full name of inventor:

Antonio Fontes

Residence:

Northbridge, MA

Citizenship:

United States

Mailing Address:

477 Benson Road
Northbridge, MA 01534

COMMONWEALTH OF
COUNTY OF

Massachusetts
Middlesex

On this 21 day of December, 2016, then personally appeared before me the
above-named **Antonio Fontes** known to me through satisfactory evidence of identification ☐
employee identification card; ☒ driver's license; ☐ (other)

_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Nancy E. Buck
Notary Public

Print Name: Nancy E. Buck

My Commission expires 8/11/2017

Date: 12/20/16

Pat. J. Weiler
Inventor's Signature

Print full name of inventor:

Patrick J. Weiler

Residence:

Northborough, MA

Citizenship:

United States

Mailing Address:

14 Mashpee Circle

Northborough, MA 01532

COMMONWEALTH OF
COUNTY OF

Massachusetts
Middlesex

On this 20 day of December, 2016, then personally appeared before me the
above-named **Patrick J. Weiler** known to me through satisfactory evidence of identification
☒ employee identification card; ☐ driver's license; ☐ (other)

_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.

Nancy E. Buck
Notary Public

Print Name:

Nancy E. Buck

My Commission expires

8/11/2017