

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7354471

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SACHIN GOPALDAS TOTALE	12/25/2015
HARKIRAT SINGH LAMBA	12/25/2015
DEEPALI KISHNANI	12/25/2015
PULKIT MANOCHA	12/25/2015
SAMIR Y. VAIDYA	12/28/2015
ROSHAN PRAKASH SALVI	12/28/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC CORPORATION
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17750601
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)371-9088
<i>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.</i>	
<b>Phone:</b>	512-637-9220
<b>Email:</b>	phelberg@sprinklelaw.com
<b>Correspondent Name:</b>	SPRINKLE IP LAW GROUP
<b>Address Line 1:</b>	1301 WEST 25TH STREET, SUITE 400
<b>Address Line 4:</b>	AUSTIN, TEXAS 78705
<b>ATTORNEY DOCKET NUMBER:</b>	OPEN5660-3
<b>NAME OF SUBMITTER:</b>	BRUCE JOHNSON
<b>SIGNATURE:</b>	/Bruce A. Johnson/
<b>DATE SIGNED:</b>	05/27/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 5**

source=OPEN5660-3 (1 of 2) Assignment from Inventors to EMC#page1.tif

source=OPEN5660-3 (1 of 2) Assignment from Inventors to EMC#page2.tif

source=OPEN5660-3 (1 of 2) Assignment from Inventors to EMC#page3.tif

source=OPEN5660-3 (1 of 2) Assignment from Inventors to EMC#page4.tif

source=OPEN5660-3 (1 of 2) Assignment from Inventors to EMC#page5.tif

ATTORNEY DOCKET NO. 18277/083001; EMC-15-0503

**ASSIGNMENT – WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

EMC Corporation

having the following address:

176 South Street  
Hopkinton, Massachusetts 01748

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest for the United States of America (including without limitation its territories and possessions) in and to the invention known by the following title:

**METHOD AND SYSTEM FOR SOFTWARE APPLICATION OPTIMIZATION USING NATURAL LANGUAGE-BASED QUERIES**

for which the INVENTOR(S) or COMPANY has/have made an application for patent in the United States of America, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all United States Letters Patent which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

125548

PATENT TRADEMARK OFFICE

**OSHALIANG**

Intellectual Property Law

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

12/25/15  
Date

1<sup>st</sup> Inventor Signature:   
Print or Type Name: Sachin Gopaldas TOTALE

\_\_\_\_\_  
Date

2<sup>nd</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: Harkirat Singh LAMBA

\_\_\_\_\_  
Date

3<sup>rd</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: Deepali KISHNANI

\_\_\_\_\_  
Date

4<sup>th</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: Pulkit MANOCHA

\_\_\_\_\_  
Date

5<sup>th</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: Samir Y. VAIDYA

\_\_\_\_\_  
Date

6<sup>th</sup> Inventor Signature: \_\_\_\_\_  
Print or Type Name: Roshan Prakash SALVI

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:  
*U.S. Application Serial No.: 14970259*  
*Filing Date: December 15, 2015*

**OSHALIANG**  
Intellectual Property Law

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

Date	1 <sup>st</sup> Inventor Signature:	Print or Type Name:	Sachin Gopaldas TOTALE
25-12-2015	2 <sup>nd</sup> Inventor Signature:	Print or Type Name:	Harkirat Singh LAMBA
Date	3 <sup>rd</sup> Inventor Signature:	Print or Type Name:	Deepali KISHNANI
25/12/2015	4 <sup>th</sup> Inventor Signature:	Print or Type Name:	Pulkit MANOCHA
Date	5 <sup>th</sup> Inventor Signature:	Print or Type Name:	Samir Y. VAIDYA
Date	6 <sup>th</sup> Inventor Signature:	Print or Type Name:	Roshan Prakash SALVI

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 14970259  
Filing Date: December 15, 2015

OSHA

Intellectual Property Law

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature.

Date	1 <sup>st</sup> Inventor Signature:	Sachin Gopaldas TOTALE
Date	Print or Type Name:	
Date	2 <sup>nd</sup> Inventor Signature:	Harkirat Singh LAMBA
Date	Print or Type Name:	
Date	3 <sup>rd</sup> Inventor Signature:	Deepali KISHNANI
Date	Print or Type Name:	
Date	4 <sup>th</sup> Inventor Signature:	Pulkit MANOCHA
Date	Print or Type Name:	
28-Dec-2015	5 <sup>th</sup> Inventor Signature:	Samir Y. VAIDYA
Date	Print or Type Name:	
Date	6 <sup>th</sup> Inventor Signature:	Roshan Prakash SALVI
Date	Print or Type Name:	

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 14970259  
Filing Date: December 15, 2015

**OSHALIANG**  
Intellectual Property Law

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

_____	1 <sup>st</sup> Inventor Signature: _____
Date	Print or Type Name: <u>Sachin Gopaldas TOTALE</u>
_____	2 <sup>nd</sup> Inventor Signature: _____
Date	Print or Type Name: <u>Harkirat Singh LAMBA</u>
_____	3 <sup>rd</sup> Inventor Signature: _____
Date	Print or Type Name: <u>Deepali KISHNANI</u>
_____	4 <sup>th</sup> Inventor Signature: _____
Date	Print or Type Name: <u>Pulkit MANOCHA</u>
_____	5 <sup>th</sup> Inventor Signature: _____
Date	Print or Type Name: <u>Samir Y. VAIDYA</u>
<u>28/12/2015</u>	6 <sup>th</sup> Inventor Signature: <u><i>Roshan</i></u>
Date	Print or Type Name: <u>Roshan Prakash SALVI</u>

When this Assignment is not filed concurrently with the patent application,  
the following identifying information may be added after execution:

U.S. Application Serial No.: 14970259  
Filing Date: December 15, 2015

**OSHALIANG**  
Intellectual Property Law

PATENT