502812133 05/16/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MUHAMMAD ARSHAD KHAN	05/15/2014
STEPHEN G. RYBICKI	05/15/2014
JOEL GOULD	05/15/2014

RECEIVING PARTY DATA

Name:	AB INITIO SOFTWARE LLC	
Street Address:	201 SPRING STREET	
City:	LEXINGTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02421	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14279615

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

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Correspondent Name: OCCHIUTI & ROHLICEK LLP

Address Line 1: 321 SUMMER STREET

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	30040-A25001	
NAME OF SUBMITTER:	CASSIE A. ZALESKI	
SIGNATURE:	/Cassie A. Zaleski/	
DATE SIGNED:	05/16/2014	

Total Attachments: 2

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PATENT 502812133 REEL: 032912 FRAME: 0103

JOINT ASSIGNMENT Attorney Docket No.: 30040-A25001

ASSIGNMENT

For valuable consideration, we, Muhammad Arshad Khan of 31 Clarke St., Sharon, MA 02067, Stephen G. Rybicki of 100 May Fair Drive, Boxborough, MA 01719, Joel Gould of 27 Lee Terrace, Arlington, MA 02474, hereby assign to Ab Initio Software LLC, a limited liability company of Delaware, having a place of business at 201 Spring Street, Lexington, MA 02421... and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled MANAGING MEMORY AND 5/16/14 STORAGE SPACE FOR A DATA OPERATION, filed __ , and assigned U.S. Serial Number 14/279,615 ____, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date:5/15/2014	net Khan
• • •	Muhammad Arshad Khan
STATE OF <u>Massochuseffs</u>) SS COUNTY OF <u>Middleser</u>)	5.

On WHY S JOY , before me, the undersigned, a notary public for the State of What and the State of What are personally appeared Muhammad Arshad Khan personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

ALEXANDRIA M.L. WUDYKA
Notary Public
Commonwealth of Massachusetts
My Commission Expires
May 29, 2020

Alexandria M.C. Wodyka Notary Public

JOINT ASSIGNMENT Attorney Docket No.: 30040-A25001

Date: 57/87/7	Stephen G. Rybicki
STATE OF MISSACHUSEHS SS.	
personally known to me (or proved to me on the	
WITNESS my hand and official seal.	
ALEXANDRIA M.L. WUDYKA Notary Public Commonwealth of Massachusetts My Commission Expires May 29, 2020	Alexandera M. C. Wolffer Notary Public
Date: 5.75.75	Joel Gould
STATE OF Massachuseths) SS.	
On May 16 2014 the State of Saname is subscribed to this Assignment, who ack authorized capacity and that by his signature on behalf of which he acted, executed this Assignment.	nowledged having executed the same in his this Assignment, the person or the entity upon
WITNESS my hand and official seal.	
ALEXANDRIA M.L. WUDYKA Notary Public Commonwealth of Massachusens My Commission Expires May 29, 2020	Notary Public
Andrews Co.	

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RECORDED: 05/16/2014