

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Architecture LLC	07/16/2008
RECEIVING PARTY DATA	
Name:	Ab Initio Technology LLC
Street Address:	201 Spring Street
City:	Lexington
State/Country:	MASSACHUSETTS
Postal Code:	02421
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13936330
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	617-542-5070
Email:	pxm@fr.com
Correspondent Name:	Jeffrey Weber
Address Line 1:	P.O. Box 1022
Address Line 4:	Minneapolis, MINNESOTA 55440
ATTORNEY DOCKET NUMBER:	07470-0089003
NAME OF SUBMITTER:	Paul J. Micele
Signature:	/Paul J. Micele/
Date:	07/08/2013
Total Attachments: 8 source=23049255#page1.tif	

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ASSIGNMENT OF TRADE SECRET, INVENTION & PATENT RIGHTS

Assignor: Architecture LLC, a Delaware limited liability company

Assignee: Ab Initio Technology LLC, a Delaware limited liability company

1. The subject matter of this Assignment of Trade Secret, Invention & Patent Rights (the "Assignment") is the following Invention & Trade Secret Rights: (1) the patents and patent applications identified in attached Exhibit PATENT, the inventions embodied therein, and any and all domestic or foreign continuation, continuation-in-part, or divisional applications and reissue, correction, reexamination, or other patents, or certificates of invention, utility models, design registrations, and the like, that issue or derive priority therefrom or claim priority thereto, and (2) any and all inventions (whether or not patentable), trade secrets, and confidential information, whether tangible or intangible, developed by or on behalf of **Assignor** for use or potential use in its business, including (without limitation) all technical information, devices, formulae, methods, processes, techniques, know how, show how, designs, patterns, drawings, compilations, cost data, pricing, customer lists, vendor lists, employee lists, and computer programs (including source code) and related documentation.
2. For good and valuable consideration, the receipt and sufficiency of which is acknowledged by **Assignor**, **Assignor** hereby assigns to **Assignee** all of **Assignor's** worldwide rights, title, and interest (without reservation of any rights whatsoever) in and to (1) the Invention & Trade Secret Rights, (2) the right to claim priority based on the filing dates of any of the Invention & Trade Secret Rights, and (3) any claims (known or unknown, suspected or unsuspected) of any nature that **Assignor** has or may have against any entity for infringement or misappropriation of the Invention & Trade Secret Rights.
3. **Assignor** agrees to sign all lawful papers, make all rightful oaths, communicate to **Assignee** or its representatives all facts known to **Assignor** with respect to the Invention & Trade Secret Rights, cooperate with **Assignee** and its representatives, and generally do everything deemed necessary by **Assignee** to:
 - a. complete and fulfill the terms of this Assignment;
 - b. enable **Assignee**, at **Assignee's** expense, to apply for or prosecute any patent, invention right, or application for Invention & Trade Secret Rights, to maintain any application or issued patent for the Invention & Trade Secret Rights, and to record this Assignment, including executing separate or additional assignments in connection with such recordation or applications, and generally secure and/or perfect legal protection for the Invention & Trade Secret Rights;
 - c. assist **Assignee**, at **Assignee's** expense, to apply for, obtain, and enforce legal protection for the Invention & Trade Secret Rights in all countries, including applying for protection of the Invention & Trade Secret Rights under any provisions of the International Convention for Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all similar agreements or treaties, whether in the name of **Assignor** or of **Assignee**;
 - d. assist **Assignee**, at **Assignee's** expense, with respect to any action, suit, or other legal proceeding relating to enforcement or defense of any of the Invention & Trade Secret Rights, including obtaining evidence and testifying in any such legal proceeding (in any such legal proceeding, **Assignor** will be represented by the same legal counsel as **Assignee**).
4. Each examining, registration, or recording office or agency (including, without limitation, the United States Patent and Trademark Office) is hereby authorized by **Assignor** to deliver to **Assignee**, its attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Assignment.
5. **Assignor** grants to **Assignee** the power to insert on this Assignment any further identification when known which may be necessary or desirable in order to comply with the rules of any examining, registration, or recording office or agency for recordation of this Assignment.

Assignor: Architecture LLC, a Delaware limited liability company

By:

Title:

Date:

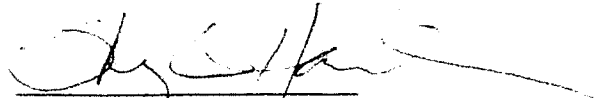
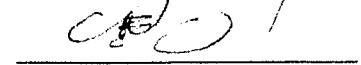


7/16/08

EXHIBIT PATENT

EXHIBIT PATENT

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
ISSUED	7,167,850/10/268,509 (068001)	US	Startup And Control Of Graph-Based Computation
ISSUED	2004-543637	EU	Startup And Control Of Graph-Based Computation
ISSUED	(068001)	IP	Startup And Control Of Graph-Based Computation
ISSUED	2770720.5	IP	Startup And Control Of Graph-Based Computation
ISSUED	(068001)	CA	Startup And Control Of Graph-Based Computation
FILED	2504076	CA	Startup And Control Of Graph-Based Computation
FILED	(068001)	ALL	Startup And Control Of Graph-Based Computation
FILED	2007202782	ALL	Startup And Control Of Graph-Based Computation
FILED	(068001)	ALL	Startup And Control Of Graph-Based Computation
ISSUED	2003-070300	ALL	Startup And Control Of Graph-Based Computation
ISSUED	(068001)	UK	Startup And Control Of Graph-Based Computation
ISSUED	0134443.8	UK	Startup And Control Of Graph-Based Computation
ISSUED	(068001)	IN	Startup And Control Of Graph-Based Computation
ISSUED	1734/DELNR/2005	IN	Startup And Control Of Graph-Based Computation
ISSUED	(068001)	IN	Startup And Control Of Graph-Based Computation
ISSUED	2807/DELNR/2007	IN	Startup And Control Of Graph-Based Computation
ISSUED	(068001)	IN	Startup And Control Of Graph-Based Computation
ISSUED	6,654,907/09/731,234 (057001 CIP of 47001)	US	Continuous Flow Compute Point Based Data Processing
ISSUED	7,164,422/09/627,252 (05001)	US	Parameterized Graphs With Conditional Components
ISSUED	1055078	EU	Parameterized Graphs With Conditional Components
ISSUED	(05001)	IP	Parameterized Graphs With Conditional Components
ISSUED	2002-515753	IP	Parameterized Graphs With Conditional Components
ISSUED	(05001)	IP	Parameterized Graphs With Conditional Components
ISSUED	2006-302306	IP	Parameterized Graphs With Conditional Components
ISSUED	(05001)	CA	Parameterized Graphs With Conditional Components
FILED	2447404	CA	Parameterized Graphs With Conditional Components
FILED	(05001)	IN	Parameterized Graphs With Conditional Components
ISSUED	1604/DELNR/2002	IN	Parameterized Graphs With Conditional Components
ISSUED	(05001)	IN	Parameterized Graphs With Conditional Components
ISSUED	6,584,581/09/608,995 (047001)	US	Continuous Flow Checkpointing Data Processing
ISSUED	092391.3	EU	Continuous Flow Checkpointing Data Processing
ISSUED	(047001)	IP	Continuous Flow Checkpointing Data Processing
ISSUED	2004-544443	IP	Continuous Flow Checkpointing Data Processing
ISSUED	(047001)	CA	Continuous Flow Checkpointing Data Processing
ISSUED	2302200	CA	Continuous Flow Checkpointing Data Processing
ISSUED	(047001)	UK	Continuous Flow Checkpointing Data Processing
ISSUED	2409527.2	UK	Continuous Flow Checkpointing Data Processing
ISSUED	(047001)	IN	Continuous Flow Checkpointing Data Processing
ISSUED	7,047,232/09/229,849 (030001)	US	Parallelizing Applications Of Script-Driven Applications
ISSUED	904353	EU	Parallelizing Applications Of Script-Driven Applications
FILED	(030001)	IP	Parallelizing Applications Of Script-Driven Applications
ISSUED	2000-504025	IP	Parallelizing Applications Of Script-Driven Applications
ISSUED	(030001)	IP	Parallelizing Applications Of Script-Driven Applications
ISSUED	2006-062272	IP	Parallelizing Applications Of Script-Driven Applications
ISSUED	(030001)	CA	Parallelizing Applications Of Script-Driven Applications
ISSUED	2360286	CA	Parallelizing Applications Of Script-Driven Applications
ISSUED	(030001)	IN	Parallelizing Applications Of Script-Driven Applications
ISSUED	6,665,862/09/915,185 (02002 CON OF 02001)	US	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	6,266,804/08/997,142 (020001)	US	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	09065464.1	EU	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	(020001)	IP	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	2000-525842	IP	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	(020001)	IN	Method For Analyzing Capacity Of Parallel Processing Systems

STATUS (filing date)	PATENT NO./SERIAL NO (F&R Docket No.)	COUNTRY	TITLE
ISSUED	0245790 (020001)	CA	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	6,088,716/08/847,909 (010001)	US	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	00048828.0 (010001)	EU	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	10,617,000 (010001)	JP	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	0000000 (010001)	CA	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	0000000 (010001)	CA	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	5,857,204/08/678,398 (008001)	US	A Method For Restoring The State Of A Set Of Files
ISSUED	07008460.0 (000001)	EU	A Method For Restoring The State Of A Set Of Files
ISSUED	0000001 (000001)	JP	A Method For Restoring The State Of A Set Of Files
FILED	0000001 (000001)	CA	A Method For Restoring The State Of A Set Of Files
ISSUED	0000001 (000001)	CA	A Method For Restoring The State Of A Set Of Files
ISSUED	5,897,638/08/876,734 (006001)	US	A Parallel Virtual File System
ISSUED	08020283.1 (000001)	EU	A Parallel Virtual File System
ISSUED	11,604,685 (000001)	JP	A Parallel Virtual File System
ISSUED	0000001 (000001)	CA	A Parallel Virtual File System
ISSUED	0000001 (000001)	CA	A Parallel Virtual File System
ISSUED	5,712,971/08/570,724 (004001)	US	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	078042720 (004001)	EU	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	0040001 (004001)	JP	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	0040001 (004001)	JP	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	0002,340,600 (004001)	JP	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	0040001 (004001)	CA	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	0040001 (004001)	CA	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	5,966,072/08/678,411 (003001)	US	Executing Computations Expressed As Graphs
ISSUED	07021642.0 (003001)	EU	Executing Computations Expressed As Graphs
ISSUED	0000001 (003001)	JP	Executing Computations Expressed As Graphs
ISSUED	0000001 (003001)	JP	Executing Computations Expressed As Graphs
ISSUED	0000001 (003001)	CA	Executing Computations Expressed As Graphs
ISSUED	5,819,021/08/570,585 (002001)	US	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
ISSUED	0051701 (002001)	EU	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
ISSUED	0020001 (002001)	JP	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
ISSUED	0020001 (002001)	JP	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
ISSUED	0020001 (002001)	CA	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
FILED	11/467,724 (068002 CON of 068001)	US	Startup And Control Of Graph-Based Computation
FILED	11/733,579 (068003 CON of 068001)	US	Transactional Graph Based Computation
FILED	10/873,681 (069001)	US	Computer-Aided Parallelizing Of Computation Graphs
FILED	10,873,681 (069001)	US	Computer-Aided Parallelizing Of Computation Graphs
FILED	10,873,681 (069001)	JP	Computer-Aided Parallelizing Of Computation Graphs
FILED	10,873,681 (069001)	JP	Computer-Aided Parallelizing Of Computation Graphs
FILED	10,873,681 (069001)	CA	Computer-Aided Parallelizing Of Computation Graphs
FILED	10,873,681 (069001)	CA	Computer-Aided Parallelizing Of Computation Graphs

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
FILED	PCT/US2006/024280	PCT	Aggregating Data With Complex Operations
FILED	(084001)	EP	Aggregating Data With Complex Operations
FILED	08170100.5	JP	Aggregating Data With Complex Operations
FILED	(084001)	CA	Aggregating Data With Complex Operations
FILED	(084001)	AU	Aggregating Data With Complex Operations
FILED	200020110	US	Aggregating Data With Complex Operations
FILED	(084001)	KR	Aggregating Data With Complex Operations
FILED	10-2007-700000	IN	Aggregating Data With Complex Operations
FILED	5530/DELNP/2007	CN	Aggregating Data With Complex Operations
FILED	(084001)	US	Aggregating Data With Complex Operations
FILED	200600000000.2	US	Aggregating Data With Complex Operations
FILED	(084001)	US	Aggregating Data With Complex Operations
FILED	11/169,074 (085001)	US	Managing Message Queues
FILED	PCT/US2006/024233	PCT	Managing Message Queues
FILED	(085001)	EP	Managing Message Queues
FILED	06773738.7	JP	Managing Message Queues
FILED	(085001)	CA	Managing Message Queues
FILED	(085001)	AU	Managing Message Queues
FILED	(085001)	KR	Managing Message Queues
FILED	10-2007-700000	IN	Managing Message Queues
FILED	0505/DELNP/2007	CN	Managing Message Queues
FILED	(085001)	US	Managing Message Queues
FILED	200600000000.1	US	Managing Message Queues
FILED	(085001)	US	Managing Message Queues
FILED	11/169,246 (086001)	US	Managing Memory Pages
FILED	PCT/US2006/024291	PCT	Managing Memory Pages
FILED	(086001)	EP	Managing Memory Pages
FILED	06795241.6	JP	Managing Memory Pages
FILED	(086001)	CA	Managing Memory Pages
FILED	(086001)	AU	Managing Memory Pages
FILED	(086001)	KR	Managing Memory Pages
FILED	10-2007-7027854	IN	Managing Memory Pages
FILED	40063/DELNP/2007	CN	Managing Memory Pages
FILED	(086001)	US	Managing Memory Pages
FILED	200600000000.3	US	Managing Memory Pages
FILED	(086001)	US	Managing Memory Pages
FILED	11/169,247 (087001)	US	Translating Expressions In A Computing Environment
FILED	PCT/US2006/024042	PCT	Translating Expressions In A Computing Environment
FILED	(087001)	EP	Translating Expressions In A Computing Environment
FILED	0679526.0	JP	Translating Expressions In A Computing Environment
FILED	(087001)	CA	Translating Expressions In A Computing Environment
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FILED	10-2007-7027854	IN	Translating Expressions In A Computing Environment
FILED	40063/DELNP/2007	CN	Translating Expressions In A Computing Environment
FILED	(087001)	US	Translating Expressions In A Computing Environment
FILED	200600000000.4	US	Translating Expressions In A Computing Environment
FILED	(087001)	US	Translating Expressions In A Computing Environment

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
FILED	10-2007-7000520 (087001)	KR	Translating Expressions In A Computing Environment
FILED	200600023480-0 (087001)	CN	Translating Expressions In A Computing Environment
FILED	10146/DELNP/2007 (087001)	IN	Translating Expressions In A Computing Environment
FILED	11/169,014 (088001)	US	Managing Parameters For Graph-Based Computations
FILED	PCT/US2006/024057 (088001)	PCT	Managing Parameters For Graph-Based Computations
FILED	06774000-0 (088001)	EP	Managing Parameters For Graph-Based Computations
FILED	(088001)	JP	Managing Parameters For Graph-Based Computations
FILED	(088001)	CA	Managing Parameters For Graph-Based Computations
FILED	2006204760 (088001)	AU	Managing Parameters For Graph-Based Computations
FILED	10-2007-7000527 (088001)	KR	Managing Parameters For Graph-Based Computations
FILED	10100/DELNP/2007 (088001)	IN	Managing Parameters For Graph-Based Computations
FILED	200600023478-1 (088001)	CN	Managing Parameters For Graph-Based Computations
FILED	11/167,902 (089001)	US	Managing Metadata For Graph-Based Computations
FILED	PCT/US2006/024033 (089001)	PCT	Managing Metadata For Graph-Based Computations
FILED	06774000-0 (089001)	EP	Managing Metadata For Graph-Based Computations
FILED	(089001)	JP	Managing Metadata For Graph-Based Computations
FILED	2640080 (089001)	CA	Managing Metadata For Graph-Based Computations
FILED	2006204740 (089001)	AU	Managing Metadata For Graph-Based Computations
FILED	200600023478-1 (089001)	CN	Managing Metadata For Graph-Based Computations
FILED	10117/DELNP/2007 (089001)	IN	Managing Metadata For Graph-Based Computations
FILED	10-2007-7000520 (089001)	KR	Managing Metadata For Graph-Based Computations
FILED	10/979,742 (090001)	US	Managing Related Data Objects
FILED	PCT/US2006/024033 (090001)	PCT	Managing Related Data Objects
FILED	06020000-0 (090001)	EP	Managing Related Data Objects
FILED	(090001)	JP	Managing Related Data Objects
FILED	2504020 (090001)	CA	Managing Related Data Objects
FILED	20060002270 (090001)	AU	Managing Related Data Objects
FILED	200580037482-1 (090001)	CN	Managing Related Data Objects
FILED	2004/DELNP/2007 (090001)	IN	Managing Related Data Objects
FILED	11/733,434 (091001)	US	Business Rules Editor
FILED	11/434,623 (095001)	US	Managing Computing Resources In Graph-Based Computations
FILED	PCT/US2007/068046 (095001)	PCT	Managing Computing Resources In Graph-Based Computations

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
FILED	11/836,349 (117001)	US	Distributing Services In Graph-Based Computations
FILED	11/836,349 (117001)	US	Distributing Services In Graph-Based Computations
FILED	11/555,458 (119001)	US	Managing Storage Of Individually Accessible Data Units
FILED	PCT/US2007/02786 (118881)	PCT	Managing Storage Of Individually Accessible Data Units
FILED	60/952,075 (128PO1)	US	Transaction Graph-Based Computation With Error Handling
FILED	60/973,979 (131PO1)	US	Managing Data Flows In Graph-Based Computations
FILED	12/015,085 (130001)	US	Managing An Archive For Approximate String Matching