

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3794330

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ARCHITECTURE LLC	07/16/2008
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	AB INITIO TECHNOLOGY LLC	
<b>Street Address:</b>	201 SPRING STREET	
<b>City:</b>	LEXINGTON	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	02421	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14519030
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(617)500-2499	
<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>	6175002500	
<b>Email:</b>	INFO@ORPATENT.COM	
<b>Correspondent Name:</b>	OCCHIUTI & ROHLICEK LLP	
<b>Address Line 1:</b>	321 SUMMER ST.	
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210	
<b>ATTORNEY DOCKET NUMBER:</b>	30040-A72004	
<b>NAME OF SUBMITTER:</b>	CASSIE A. ZALESKI	
<b>SIGNATURE:</b>	/Cassie A. Zaleski/	
<b>DATE SIGNED:</b>	03/22/2016	
<b>Total Attachments: 8</b>		
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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:

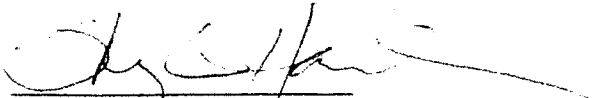

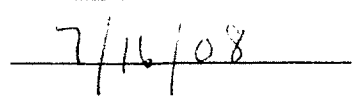
  
  


EXHIBIT PATENT

## 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
<del>ISSUED</del>	<del>2004-543637</del>	<del>EU</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>(068001)</del>	<del>IP</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>2770720.5</del>	<del>IP</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>(068001)</del>	<del>CA</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>FILED</del>	<del>2504076</del>	<del>CA</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>FILED</del>	<del>(068001)</del>	<del>ALL</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>FILED</del>	<del>2007202782</del>	<del>ALL</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>FILED</del>	<del>(068001)</del>	<del>ALL</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>2003-070300</del>	<del>ALL</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>(068001)</del>	<del>UK</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>0134443.8</del>	<del>UK</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>(068001)</del>	<del>IN</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>1734/DELNR/2005</del>	<del>IN</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>(068001)</del>	<del>IN</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>2807/DELNR/2007</del>	<del>IN</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>(068001)</del>	<del>IN</del>	<del>Startup And Control Of Graph-Based Computation</del>
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
<del>ISSUED</del>	<del>1055078</del>	<del>EU</del>	<del>Parameterized Graphs With Conditional Components</del>
<del>ISSUED</del>	<del>(05001)</del>	<del>IP</del>	<del>Parameterized Graphs With Conditional Components</del>
<del>ISSUED</del>	<del>2002-515753</del>	<del>IP</del>	<del>Parameterized Graphs With Conditional Components</del>
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<del>ISSUED</del>	<del>2006-302306</del>	<del>IP</del>	<del>Parameterized Graphs With Conditional Components</del>
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ISSUED	6,584,581/09/608,995 (047001)	US	Continuous Flow Checkpointing Data Processing
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<del>ISSUED</del>	<del>(047001)</del>	<del>IN</del>	<del>Continuous Flow Checkpointing Data Processing</del>
ISSUED	7,047,232/09/229,849 (030001)	US	Parallelizing Applications Of Script-Driven Applications
<del>ISSUED</del>	<del>904353</del>	<del>EU</del>	<del>Parallelizing Applications Of Script-Driven Applications</del>
<del>FILED</del>	<del>(030001)</del>	<del>IP</del>	<del>Parallelizing Applications Of Script-Driven Applications</del>
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<del>ISSUED</del>	<del>(030001)</del>	<del>IN</del>	<del>Parallelizing Applications Of Script-Driven Applications</del>
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
<del>ISSUED</del>	<del>09065464.1</del>	<del>EU</del>	<del>Method For Analyzing Capacity Of Parallel Processing Systems</del>
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STATUS (filing date)	PATENT NO./SERIAL NO (F&R Docket No.)	COUNTRY	TITLE
<del>ISSUED</del>	<del>02/5790</del>	<del>CA</del>	<del>Method For Analyzing Capacity Of Parallel Processing Systems</del>
<del>ISSUED</del>	<del>(020001)</del>	<del>US</del>	<del>Method For Preventing Buffer Deadlock In Dataflow Computations</del>
<del>ISSUED</del>	<del>6,088,716/08/847,909</del>	<del>US</del>	<del>Method For Preventing Buffer Deadlock In Dataflow Computations</del>
<del>ISSUED</del>	<del>(010001)</del>	<del>EU</del>	<del>Method For Preventing Buffer Deadlock In Dataflow Computations</del>
<del>ISSUED</del>	<del>08048828.9</del>	<del>JP</del>	<del>Method For Preventing Buffer Deadlock In Dataflow Computations</del>
<del>ISSUED</del>	<del>(010001)</del>	<del>JP</del>	<del>Method For Preventing Buffer Deadlock In Dataflow Computations</del>
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<del>ISSUED</del>	<del>5,857,204/08/678,398</del>	<del>US</del>	<del>A Method For Restoring The State Of A Set Of Files</del>
<del>ISSUED</del>	<del>(008001)</del>	<del>EU</del>	<del>A Method For Restoring The State Of A Set Of Files</del>
<del>ISSUED</del>	<del>07008469.9</del>	<del>JP</del>	<del>A Method For Restoring The State Of A Set Of Files</del>
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<del>FILED</del>	<del>0,40,504,474</del>	<del>JP</del>	<del>A Method For Restoring The State Of A Set Of Files</del>
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<del>ISSUED</del>	<del>(006001)</del>	<del>EU</del>	<del>A Parallel Virtual File System</del>
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<del>ISSUED</del>	<del>(000001)</del>	<del>US</del>	<del>Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications</del>
<del>ISSUED</del>	<del>5,819,021/08/570,585</del>	<del>US</del>	<del>Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications</del>
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<del>ISSUED</del>	<del>005,470</del>	<del>JP</del>	<del>Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications</del>
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<del>ISSUED</del>	<del>(000001)</del>	<del>US</del>	<del>Startup And Control Of Graph-Based Computation</del>
<del>ISSUED</del>	<del>0240200</del>	<del>US</del>	<del>Transactional Graph Based Computation</del>
<del>ISSUED</del>	<del>(000001)</del>	<del>US</del>	<del>Computer-Aided Parallelizing Of Computation Graphs</del>
<del>FILED</del>	<del>11/467,724</del>	<del>US</del>	<del>Computer-Aided Parallelizing Of Computation Graphs</del>
<del>FILED</del>	<del>(068002 CON of 068001)</del>	<del>US</del>	<del>Computer-Aided Parallelizing Of Computation Graphs</del>
<del>FILED</del>	<del>11/733,579</del>	<del>US</del>	<del>Computer-Aided Parallelizing Of Computation Graphs</del>
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STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
<del>FILED</del>	<del>PCT/US2006/024280</del>	<del>PCT</del>	<del>Aggregating Data With Complex Operations</del>
<del>FILED</del>	<del>(084001)</del>	<del>EP</del>	<del>Aggregating Data With Complex Operations</del>
<del>FILED</del>	<del>08170100.9</del>	<del>JP</del>	<del>Aggregating Data With Complex Operations</del>
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<del>FILED</del>	<del>10 2007 7000000</del>	<del>CA</del>	<del>Managing Memory Pages</del>
<del>FILED</del>	<del>0605/DELNP/2007</del>	<del>AI</del>	<del>Managing Memory Pages</del>
<del>FILED</del>	<del>(085001)</del>	<del>KR</del>	<del>Managing Memory Pages</del>
<del>FILED</del>	<del>200600000000.1</del>	<del>IN</del>	<del>Managing Memory Pages</del>
<del>FILED</del>	<del>(085001)</del>	<del>CN</del>	<del>Managing Memory Pages</del>
<del>FILED</del>	<del>11/169,246</del>	<del>US</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(086001)</del>	<del>PCT</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>PCT/US2006/024291</del>	<del>EP</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(086001)</del>	<del>JP</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>06795241.6</del>	<del>CA</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(086001)</del>	<del>AI</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>2006262114</del>	<del>KR</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(086001)</del>	<del>IN</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>10 2007 7027854</del>	<del>CN</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>40062/DELNP/2007</del>	<del>US</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(086001)</del>	<del>PCT</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>200600000000.3</del>	<del>EP</del>	<del>Translating Expressions In A Computing Environment</del>
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<del>FILED</del>	<del>(087001)</del>	<del>AI</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>PCT/US2006/024042</del>	<del>KR</del>	<del>Translating Expressions In A Computing Environment</del>
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<del>FILED</del>	<del>0679526.0</del>	<del>CN</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(087001)</del>	<del>US</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>200020175.1</del>	<del>PCT</del>	<del>Translating Expressions In A Computing Environment</del>
<del>FILED</del>	<del>(087001)</del>	<del>EP</del>	<del>Translating Expressions In A Computing Environment</del>

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	10/146/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	10/100/DELNP/2007 (088001)	IN	Managing Parameters For Graph-Based Computations
FILED	200600022478-1 (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	200600022478-1 (089001)	CN	Managing Metadata For Graph-Based Computations
FILED	10/117/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	06025000-0 (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
<del>FILED</del>	<del>11/836,349 (117001)</del>	<del>US</del>	<del>Distributing Services In Graph-Based Computations</del>
FILED	11/555,458 (119001)	US	Managing Storage Of Individually Accessible Data Units
<del>FILED</del>	<del>PCT/US2007/02786 (118881)</del>	<del>PCT</del>	<del>Managing Storage Of Individually Accessible Data Units</del>
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