

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Ab Initio Software LLC	07/16/2008
RECEIVING PARTY DATA	
Name:	Architecture LLC
Street Address:	201 Spring Street
City:	Lexington
State/Country:	MASSACHUSETTS
Postal Code:	02421
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13552706
CORRESPONDENCE DATA	
Fax Number:	
Phone:	617-542-5070
Email:	pxm@fr.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Jeffrey J. Barclay
Address Line 1:	One Marina Park Drive
Address Line 4:	Boston, MASSACHUSETTS 02210
ATTORNEY DOCKET NUMBER:	07470-0119002
NAME OF SUBMITTER:	Paul J. Micele
<p>Total Attachments: 8</p> <p>source=AISL to Arch Assign#page1.tif</p> <p>source=AISL to Arch Assign#page2.tif</p> <p>source=AISL to Arch Assign#page3.tif</p> <p>source=AISL to Arch Assign#page4.tif</p> <p>source=AISL to Arch Assign#page5.tif</p> <p>source=AISL to Arch Assign#page6.tif</p> <p>source=AISL to Arch Assign#page7.tif</p> <p>source=AISL to Arch Assign#page8.tif</p>	

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ASSIGNMENT OF TRADE SECRET, INVENTION & PATENT RIGHTS

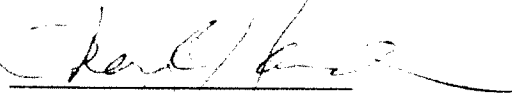
Assignor: Ab Initio Software LLC, a Delaware limited liability company

Assignee: Architecture 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: Ab Initio Software LLC, a Delaware limited liability company

By:



Title:

CEO

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, 543837	EU	Startup And Control Of Graph-Based Computation
ISSUED	2770720.5	JP	Startup And Control Of Graph-Based Computation
ISSUED	2504076	CA	Startup And Control Of Graph-Based Computation
FILED	2007202782	AU	Startup And Control Of Graph-Based Computation
FILED	2007202782	AU	Startup And Control Of Graph-Based Computation
ISSUED	2009, 270920	AU	Startup And Control Of Graph-Based Computation
ISSUED	0101110.5	UK	Startup And Control Of Graph-Based Computation
ISSUED	1704/DEL NR/2005	IN	Startup And Control Of Graph-Based Computation
ISSUED	2807/DEL NR/2007	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	2002, 515753	JP	Parameterized Graphs With Conditional Components
ISSUED	2006, 302306	JP	Parameterized Graphs With Conditional Components
ISSUED	2447404	CA	Parameterized Graphs With Conditional Components
FILED	160MUMIND 2002	IN	Parameterized Graphs With Conditional Components
ISSUED	6,584,581/09/608,995 (047001)	US	Continuous Flow Checkpointing Data Processing
ISSUED	992301.3	EU	Continuous Flow Checkpointing Data Processing
ISSUED	2004, 544443	JP	Continuous Flow Checkpointing Data Processing
ISSUED	2202200	CA	Continuous Flow Checkpointing Data Processing
ISSUED	2109527.2	UK	Continuous Flow Checkpointing Data Processing
ISSUED	7,047,232/09/229,849 (030001)	US	Parallelizing Applications Of Script-Driven Applications
FILED	904353	EU	Parallelizing Applications Of Script-Driven Applications
FILED	2000, 594025	JP	Parallelizing Applications Of Script-Driven Applications
ISSUED	2006, 062272	JP	Parallelizing Applications Of Script-Driven Applications
ISSUED	2360286	CA	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	98965464.1	EU	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	2000, 695042	JP	Method For Analyzing Capacity Of Parallel Processing Systems
ISSUED	020001	JP	Method For Analyzing Capacity Of Parallel Processing Systems

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
ISSUED	(060001)	CA	Method For Analyzing Capacity Of Parallel Processing System
ISSUED	6,088,716/08/847,909 (010001)	US	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	(060001)	EU	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	(060001)	IP	Method For Preventing Buffer Deadlock In Dataflow Computations
ISSUED	(060001)	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	(060001)	EU	A Method For Restoring The State Of A Set Of Files
ISSUED	(060001)	IP	A Method For Restoring The State Of A Set Of Files
FILED	(060001)	CA	A Method For Restoring The State Of A Set Of Files
ISSUED	(060001)	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	(060001)	EU	A Parallel Virtual File System
ISSUED	(060001)	IP	A Parallel Virtual File System
ISSUED	(060001)	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	(060001)	EU	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	(060001)	IP	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	(060001)	IP	Methods And Systems For Reconstructing The State Of A Computation
ISSUED	(060001)	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	(060001)	EU	Executing Computations Expressed As Graphs
ISSUED	(060001)	IP	Executing Computations Expressed As Graphs
ISSUED	(060001)	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	(060001)	EU	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
ISSUED	(060001)	IP	Overpartitioning System And Method For Increasing Checkpoints In Component-Based Parallel Applications
ISSUED	(060001)	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	(060001)	EU	Computer-Aided Parallelizing Of Computation Graphs
FILED	(060001)	IP	Computer-Aided Parallelizing Of Computation Graphs
FILED	(060001)	CA	Computer-Aided Parallelizing Of Computation Graphs
FILED	(060001)	CA	Computer-Aided Parallelizing Of Computation Graphs

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE
FILED	(060004)		
FILED	2,001,021	GB	Computer Aided Parallelizing Of Computation Graphs
FILED	(060004)		
FILED	5,000,000	IN	Computer Aided Parallelizing Of Computation Graphs
FILED	(060004)		
FILED	6,106,110	HK	Computer Aided Parallelizing Of Computation Graphs
FILED	(060004)		
FILED	10/941,402 (070001)	US	Data Profiling
FILED	(070004)	FR	Data Profiling
FILED	(070004)	JP	Data Profiling
FILED	(070004)	CA	Data Profiling
FILED	(070004)	CA	Data Profiling
FILED	(070004)	CH	Data Profiling
FILED	(070004)		Data Profiling
FILED	11,070,000	IN	Data Profiling
FILED	(070004)		Data Profiling
FILED	12,000,000	KR	Data Profiling
FILED	(070004)		Data Profiling
FILED	10/941,373 (070002)	US	Joint Field Profiling
FILED	11/467,724 (070003)	US	Functional Dependency Data Profiling
FILED	10/795,374 (071001)	US	Dependency Graph Parameter Scoping
FILED	(070004)		Dependency Graph Parameter Scoping
FILED	(071001)	JP	Dependency Graph Parameter Scoping
FILED	(071001)	CA	Dependency Graph Parameter Scoping
FILED	(071001)	CH	Dependency Graph Parameter Scoping
FILED	(071001)	CH	Dependency Graph Parameter Scoping
FILED	(071001)	CA	Dependency Graph Parameter Scoping
FILED	(071001)	IN	Dependency Graph Parameter Scoping
FILED	(071001)	HK	Dependency Graph Parameter Scoping
FILED	10/796,612 (072001)	US	Controlling Task Execution
FILED	(072001)	EU	Controlling Task Execution
FILED	(072001)	JP	Controlling Task Execution
FILED	(072001)	CA	Controlling Task Execution
FILED	(072001)	AU	Controlling Task Execution
FILED	(072001)		Controlling Task Execution
FILED	(072001)	HK	Controlling Task Execution
FILED	11/169,073 (084001)	US	Aggregating Data With Complex Operations

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	06710708.0	EP	Aggregating Data With Complex Operations
FILED	(084001)	JP	Aggregating Data With Complex Operations
FILED	(084001)	CA	Aggregating Data With Complex Operations
FILED	(084001)	CA	Aggregating Data With Complex Operations
FILED	200026110	AU	Aggregating Data With Complex Operations
FILED	(084001)	AU	Aggregating Data With Complex Operations
FILED	10 2007 188800	KR	Aggregating Data With Complex Operations
FILED	(084001)	KR	Aggregating Data With Complex Operations
FILED	3530/DELNR/2007	IN	Aggregating Data With Complex Operations
FILED	(084001)	IN	Aggregating Data With Complex Operations
FILED	30068003203.2	CN	Aggregating Data With Complex Operations
FILED	(084001)	CN	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	EP	Managing Message Queues
FILED	(085001)	JP	Managing Message Queues
FILED	(085001)	CA	Managing Message Queues
FILED	(085001)	CA	Managing Message Queues
FILED	2006262462	AU	Managing Message Queues
FILED	(085001)	AU	Managing Message Queues
FILED	10 2007 7000001	KR	Managing Message Queues
FILED	(085001)	KR	Managing Message Queues
FILED	0695/DELNR/2007	IN	Managing Message Queues
FILED	(085001)	IN	Managing Message Queues
FILED	200000000370.1	CN	Managing Message Queues
FILED	(085001)	CN	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	06786241.6	EP	Managing Memory Pages
FILED	(086001)	JP	Managing Memory Pages
FILED	(086001)	CA	Managing Memory Pages
FILED	2006262444	AU	Managing Memory Pages
FILED	(086001)	AU	Managing Memory Pages
FILED	10 2007 702785.1	KR	Managing Memory Pages
FILED	(086001)	KR	Managing Memory Pages
FILED	10062/DELNR/2007	IN	Managing Memory Pages
FILED	(086001)	IN	Managing Memory Pages
FILED	200000040705.2	CN	Managing Memory Pages
FILED	(086001)	CN	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	0670526.0	EP	Translating Expressions In A Computing Environment
FILED	(087001)	JP	Translating Expressions In A Computing Environment
FILED	(087001)	CA	Translating Expressions In A Computing Environment
FILED	(087001)	CA	Translating Expressions In A Computing Environment
FILED	200020475.1	AU	Translating Expressions In A Computing Environment
FILED	(087001)	AU	Translating Expressions In A Computing Environment

STATUS (filing date)	PATENT NO./SERIAL NO. (F&R Docket No.)	COUNTRY	TITLE

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	(117001)	US	Distributing Services In Graph-Based Computations
FILED	11/555,458 (119001)	US	Managing Storage Of Individually Accessible Data Units
FILED	PCT/100007/00700 (118801)	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