

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| SEQUENCE: | 2 | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | AB INITIO SOFTWARE LLC | 06/15/2011 |
| RECEIVING PARTY DATA | | |
| Name: | AB INITIO ORIGINAL WORKS LLC | |
| Street Address: | 201 SPRING STREET | |
| City: | LEXINGTON | |
| State/Country: | MASSACHUSETTS | |
| Postal Code: | 02421 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 14520588 |
| CORRESPONDENCE DATA | | |
| Fax Number: | (877)769-7945 | |
| <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> | | |
| Phone: | 617 542-5070 | |
| Email: | apsi@fr.com | |
| Correspondent Name: | JEFFREY WEBER | |
| Address Line 1: | FISH & RICHARDSON P.C. | |
| Address Line 2: | P.O. BOX 1022 | |
| Address Line 4: | MINNEAPOLIS, MINNESOTA 55440-1022 | |
| ATTORNEY DOCKET NUMBER: | 07470-0202002 | |
| NAME OF SUBMITTER: | NANCY MCCOY | |
| SIGNATURE: | /NancyMcCoy/ | |
| DATE SIGNED: | 11/03/2014 | |
| Total Attachments: 1 | | |
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ASSIGNMENT

Assigned inventions & patent application(s): DYNAMICALLY LOADING GRAPH-BASED COMPUTATIONS [U.S. Serial Number 13/161,010, filed 06/15/2011]

Assignor: Ab Initio Software LLC, a Delaware limited liability company, having a place of business at 201 Spring Street, Lexington, MA 02421, and its successors and assigns.

Assignee: Ab Initio Original Works LLC, a Delaware limited liability company, having a place of business at 201 Spring Street, Lexington, MA 02421, and its successors and assigns.

For valuable consideration Assignor hereby assigns to Assignee the entire right, title and interest throughout the world in the inventions and improvements which are subject of the above-identified application(s) for United States Patent (the "Patent Rights").

This Assignment includes the Patent Rights, any and all United States and foreign patents, utility models, design registrations, inventors' certificates, and similar rights granted for any inventions or improvements in or derived from the Patent Rights, and the right to claim priority based on the filing date or dates of the Patent Rights 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. Assignor authorizes Assignee to apply in all countries in Assignor's name or in Assignee's own name for patents, utility models, design registrations, inventors' certificates, and similar rights for such inventions and improvements.

If the respective U.S. serial number(s) and filing date(s) are not set forth above, Assignor authorizes and requests the attorneys appointed in the Application to complete this Assignment by inserting above such serial number(s) and filing date(s) when known.

Assignor agrees, 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: June 15, 2011


Alexandria M.L. Wudyka
Alexandria M.L. Wudyka, Esq.

State of Massachusetts)
) SS.
County of Middlesex)

On June 15, 2011, before me, the undersigned, a notary public for the State of Massachusetts, there personally appeared Alexandria M.L. Wudyka 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 her authorized capacity and that by her signature on this Assignment, the person or the entity upon behalf of which she acted, executed this Assignment.

WITNESS my hand and official seal.

My Notary Seal
Notary Public

 **MR. GARY KHEBOIAN**
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 25, 2015