

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT3710592

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CARL OFFNER	10/29/2015
BROND LARSON	10/30/2015
PAUL BAY	10/28/2015
DAN TEVEN	10/28/2015
JOEL GOULD	10/28/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AB INITIO SOFTWARE 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>
<b>Application Number:</b>	14715904
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)646-8646
<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>	6176468000
<b>Email:</b>	patents_MichaelA@wolfgreenfield.com
<b>Correspondent Name:</b>	WOLF GREENFIELD
<b>Address Line 1:</b>	600 ATLANTIC AVENUE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	A1041.70019US01
<b>NAME OF SUBMITTER:</b>	MICHAEL J. ATTISHA
<b>SIGNATURE:</b>	/Michael J. Attisha/
<b>DATE SIGNED:</b>	01/26/2016
<b>Total Attachments: 7</b>	
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## ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, CARL OFFNER, BROND LARSON, PAUL BAY, DAN TEVEN and JOEL GOULD each individually assign to AB INITIO SOFTWARE LLC, a limited liability company formed under the laws of Delaware and having a principal place of business at 201 Spring Street, Lexington, MA 02421, and its successors, transferees, and assignees (collectively the “Assignee”), all of our individual and joint right, title, and interest throughout the world in the subject matter (the “Subject Matter”) of a patent application that names us as inventors, is titled “DEBUGGING A GRAPH”, and was filed in the United States Patent and Trademark Office on May 19, 2015, as application 14/715,904 (the “Application”). We authorize the insertion of the filing date and application number above.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors’ certificates for, any of the Subject Matter (collectively the “Applications and Granted Rights”) in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee’s name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee’s name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Carl D. Offner DATE: Oct. 29, 2015  
Carl Offner

The Commonwealth of Massachusetts

Alexandria M. L. Wudyka ss. 

On this 29<sup>th</sup> day of October, 2015, before me, the undersigned notary public, personally appeared Carl Offner, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

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

Alexandria M. L. Wudyka  
Notary Public

*[Signature]*  
Brend Larson

DATE: Oct. 30, 2015

The Commonwealth of Massachusetts

*[Signature]* ss.



On this 30<sup>th</sup> day of October, 2015, before me, the undersigned notary public, personally appeared Brend Larson, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that He signed it voluntarily for its stated purpose.

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

*[Signature]*  
Notary Public

Paul Bay  
Paul Bay

DATE: Oct 28, 2015

The Commonwealth of Massachusetts

Middlesex ss.



On this 28<sup>th</sup> day of October, 2015, before me, the undersigned notary public, personally appeared Paul Bay, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

Alexandria M.L. Wudyka  
Notary Public

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

Dan Teven  
Dan Teven

DATE: 10/28/2015

The Commonwealth of Massachusetts

M. de Lesage ss.



On this 28<sup>th</sup> day of October, 2015, before me, the undersigned notary public, personally appeared DAN TEVEN, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

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

Alexandria M. L. Wudyka  
Notary Public

Joel Gould  
Joel Gould

DATE: 28 Oct 2015

The Commonwealth of Massachusetts

M. Wudyka ss.



On this 28<sup>th</sup> day of October, 2015, before me, the undersigned notary public, personally appeared Joel Gould, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose.

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

Alexandria M. L. Wudyka  
Notary Public

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: AB INITIO SOFTWARE LLC

Signature: [Handwritten Signature]

Date: 10/30/15

Name: STEVEN J. HENEY

Title: COUNSEL

The Commonwealth of Massachusetts

Middlebury ss.



On this 30<sup>th</sup> day of October, 2015, before me, the undersigned notary public, personally appeared STEVEN J. HENEY, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

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

Alexandria M.L. Wudyka  
Notary Public

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