## 503811372 05/04/2016

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JOSHUA GEORGE HALE	10/16/2015

### **RECEIVING PARTY DATA**

Name:	SEMMLE LIMITED
Street Address:	BLUE BOAR COURT
Internal Address:	9 ALFRED STREET
City:	OXFORD
State/Country:	UNITED KINGDOM
Postal Code:	OX1 4EH

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15143970	

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	39348-0035002	
NAME OF SUBMITTER:	EDWARD L. PENANO	
SIGNATURE:	/EDWARD L. PENANO/	
DATE SIGNED:	05/04/2016	

## **Total Attachments: 3**

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PATENT 503811372 REEL: 038453 FRAME: 0758

Attorney Docket No.: 39348-Various

#### ASSIGNMENT

For valuable consideration, the receipt of which I acknowledge, and intending to be bound legally, I, <u>IOSHUA GEORGE HALE</u>, assign to <u>SEMMLE LIMITED</u>, a corporation formed under the laws of <u>The United Kingdom</u> and having a principal place of business at <u>Blue Boar Court. 9 Alfred Street</u>, Oxford OXI 4EH, <u>UNITED KINGDOM</u>, and its successors, transferees, and assignees (collectively the "Assignee"), all of my right, title, and interest throughout the world in the subject matter (the "Subject Matter") of each of the patent applications (the "Applications") naming me as an inventor and listed on Schedule 1 attached to this Assignment.

This Assignment assigns (a) the Applications 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.

I 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 my name or in the Assignee's name.

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

I 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.

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Attorney Docket No.: 39348-Various

John Hake	Date: 161	N Ockh	2013	,	
Joshua George Hale			***************************************		
Witnessed by:					
Signature:	Date:/	6.10.3	2015	رسيندس	
Print Name: MALCOLA TAYLOR					
The Assignee hereby acknowledges and accept	is the foregoi	ng assignmer	t,		
Assignee: SEMMLE LIMITED	partition of the second				
Signature:		_ Date:		10	<u> </u>
Name:	1400X	2			
Title:					

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# SCHEDULE 1

Application Title	Filing Date	Application Scrial No.
Template Dependency Inlining	09/30/2015	14/871,818
Hierarchical Dependency Analysis of Source Code	09/30/2015	62/234,939
Hierarchical Dependency Analysis of Source Code	09/30/2015	14/871,304
Tiered Arrays	09/30/2015	14/871,934
Disjoint-OR Trees	09/30/2015	14/871,753
Query-Based Software Dependency Analysis	09/30/2015	14/871,670
Implicit Software Dependency Analysis	09/30/2015	14/871,983
Template Dependency Relocation	09/30/2015	14/871,813
Specifying a Model Architecture	09/30/2015	14/871,956
Hierarchical Dependency Analysis Enhancements	09/30/2015	14/871,961
Managing Disjoint-OR Trees	09/30/2015	14/871,973
Virtual Compositions	09/30/2015	14/871,996

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PATENT REEL: 038453 FRAME: 0761

**RECORDED: 05/04/2016**