504184412 01/18/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4231087

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yong Cai	01/03/2017
Dong Dai	01/03/2017
Yilian Yuan	01/03/2017
Olivier Bouchard	01/01/2017

RECEIVING PARTY DATA

Name:	QUINTILES IMS INCORPORATED	
Street Address:	83 WOOSTER HEIGHTS ROAD	
City:	DANBURY	
State/Country:	CONNECTICUT	
Postal Code:	06810	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15381818

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

Phone: (202) 783-5070
Email: apsi@fr.com
Correspondent Name: YAO WANG

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	37239-0150001	
NAME OF SUBMITTER:	GINA MALDONADO	
SIGNATURE:	/Gina Maldonado/	
DATE SIGNED:	01/18/2017	

Total Attachments: 5

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> PATENT REEL: 041009 FRAME: 0074

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, YONG CAI, DONG DAI, YILIAN YUAN, and OLIVIER BOUCHARD, each individually assign to QUINTILES IMS INCORPORATED, a corporation formed under the laws of Delaware and having a principal place of business at 83 Wooster Heights Road, Danbury, CT 06810, 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 "SYSTEM AND METHOD TO IMPROVE DYNAMIC MULTI-CHANNEL INFORMATION

SYNTHESIS," and was filed in the United States Patent and Trademark Office on December 16, 2016, as application 15/381,818 (the "Application").

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.

Yong Cai

Date:

Witnessed by:

Signature: />

Date: ___

Print Name:]

Assignment Page 2 of 5

Date:

Dong Dai

Witnessed by:

Signature:

Print Name: __

Date:

Yilian Yuan

Witnessed by:

Signature: _

Print Name:

Date: 43/2317

Date: 1/3/2017

Date: <u>04/04/20</u>/7

Witnessed by:

Olivier Bouchard

Signature:

Print Name:

Date: 왕 /아 / 신사

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RECORDED: 01/18/2017