

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3831610

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Chenghai Sun	01/15/2016
FRANCK LÉON PÉROT	01/14/2016
Raoyang Zhang	01/14/2016
Hudong Chen	01/14/2016
David M. Freed	04/14/2016
Ilya Staroselsky	01/14/2016
Adrien Mann	04/14/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EXA CORPORATION
<b>Street Address:</b>	55 NETWORK DRIVE
<b>City:</b>	BURLINGTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01803
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14994943
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	(617) 542-5070
<b>Email:</b>	apso@fr.com
<b>Correspondent Name:</b>	JEFFREY D. WEBER
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	06283-0032001
<b>NAME OF SUBMITTER:</b>	RITA M. LISTON
<b>SIGNATURE:</b>	/Rita M. Liston/
<b>DATE SIGNED:</b>	04/15/2016

PATENT

**Total Attachments: 9**

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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, CHENGHAI SUN, FRANCK LÉON PÉROT, RAOYANG ZHANG, HUDONG CHEN, DAVID M. FREED, ILYA STAROSELSKY, and ADRIEN MANN, each individually assign to EXA CORPORATION, a corporation formed under the laws of Delaware and having a principal place of business at 55 Network Drive, Burlington, MA 01803, 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 "A DATA PROCESSING METHOD FOR INCLUDING THE EFFECT OF THE TORTUOSITY ON THE ACOUSTIC BEHAVIOR OF A FLUID IN A POROUS MEDIUM," and was filed in the United States Patent and Trademark Office on January 13, 2016, as application 14/994,943 (the "Application").

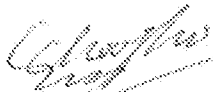
This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country 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.

  
\_\_\_\_\_  
Chenghai Sun

Date: \_\_\_\_\_

Witnessed by:

Signature: Jennifer Kelley


Date: 1/15/2016

Print Name: Jennifer Kelley

Signature: Anta Gattey

Date: January 19, 2016

Print Name: Anta Gattey

  
\_\_\_\_\_  
Franck Léon Pérot

Date: 1/14/2016

Witnessed by:

Signature: Jennifer Kelley

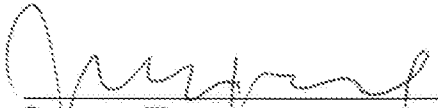
Date: 1/15/2016

Print Name: Jennifer Kelley

Signature: Amita Gaffey

Date: January 19, 2016

Print Name: Amita Gaffey

  
Raoyang Zhang

Date: 1/14/2016

Witnessed by:

Signature: Jennifer Kelley

Date: 1/15/2016

Print Name: Jennifer Kelley

Signature: Anita Gaffey

Date: January 19, 2016

Print Name: Anita Gaffey

Andy Chen  
Hudong Chen

Date: 1/14/2016

Witnessed by:

Signature: Jennifer Kelley

Date: 1/15/2016

Print Name: Jennifer Kelley

Signature: Aida Garbey

Date: January 19, 2016

Print Name: Aida Garbey

David M. Freed  
David M. Freed

Date: 4/14/16

Witnessed by:

Signature: Nils Koliha

Date: 4/14/16

Print Name: NILS KOLIHA

Signature: Andrew Fager

Date: 4-14-16

Print Name: Andrew Fager



Ilya Staroselsky  
Ilya Staroselsky

Date: 01/14/2015

Witnessed by:

Signature: Jennifer Kelley


Date: 1/15/2016

Print Name: Jennifer Kelley

Signature: Anta Gaffey

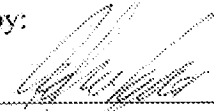
Date: January 19, 2016

Print Name: Anta Gaffey

  
\_\_\_\_\_  
Adrien Mann

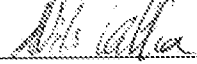
Date: 4/14/2016

Witnessed by:

Signature:   
\_\_\_\_\_

Date: 4-14-16

Print Name: Andrew Fager

Signature:   
\_\_\_\_\_

Date: 4/14/16

Print Name: NILS KOLIHA

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: EXA CORPORATION

Signature: [Handwritten Signature]

Date: 01/19/2016

Name: RICHARD F. GILBOBY

Title: Chief Financial Officer

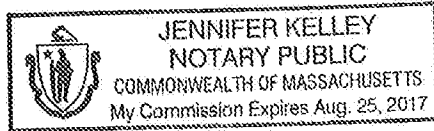
The Commonwealth of Massachusetts

Middlesex ss.



On this 19 day of January, 2016, before me, the undersigned notary public, personally appeared Richard F. Gilboby, proved to me through satisfactory evidence of identification, which were known to me, 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.

Jennifer Kelley  
Notary Public



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