

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5846225

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Chenghai Sun	08/17/2018
Hudong Chen	08/27/2018
Raoyang Zhang	08/27/2018
RECEIVING PARTY DATA	
Name:	EXA CORPORATION
Street Address:	55 NETWORK DRIVE
City:	BURLINGTON
State/Country:	MASSACHUSETTS
Postal Code:	01803
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15729216
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:	DENIS G. MALONEY
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Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	06283-0030001
NAME OF SUBMITTER:	MARIE G. CALLINA
SIGNATURE:	/Marie G. Callina/
DATE SIGNED:	12/03/2019
Total Attachments: 4	
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ASSIGNMENT

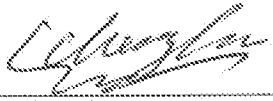
For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, ADRIEN MANN, CHENGHAI SUN, HUDONG CHEN, RAOYANG ZHANG, and FRANCK LÉON PÉROT, each individually assign to EXA CORPORATION, a corporation formed under the laws of Delaware and having a principal place 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 "ACOUSTIC EFFECTS OF A MESH ON A FLUID FLOW," and was filed in the United States Patent and Trademark Office on October 10, 2017, as application 15/729,216 (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.

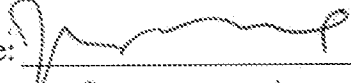
We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

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

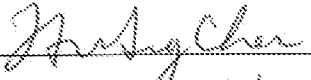

Chenghai Sun

Date: 08/17/2018

Witnessed by:

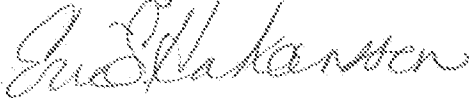
Signature: 
Print Name: Rao yang Zhang

Date: 8/27/2018

Signature: 
Print Name: Hudong Chen

Date: 8/27/2018

Assignee: Exa Corporation

 8/27/2018

Sr. Operations Manager



ERIC S. HAKANSSON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 10, 2020

Andy Chen
Hudong Chen

Date: 8/27/2018

Witnessed by:

Signature: [Signature]

Date: 08/27/2018

Print Name: Chenghai Sun

Signature: [Signature]

Date: 8/27/2018

Print Name: Raoyang Zhang

Assignee: Era Corporation

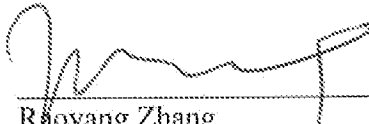
Eric S. Hakansson

8/27/2018

Sr. Operations Manager

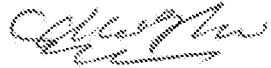


ERIC S. HAKANSSON
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Commonwealth of Massachusetts
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April 10, 2020


Ruyang Zhang

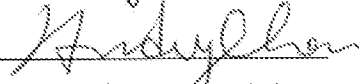
Date: 8/27/2018

Witnessed by:

Signature: 

Date: 08/27/2018

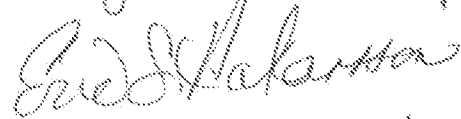
Print Name: Chengkai Sun

Signature: 

Date: 8/27/2018

Print Name: Hudong Chen

Assignee: Exa Corporation

 8/27/2018
Sr. Operations Manager



ERIC S. HAKANSSON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 10, 2020