

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4915597

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Hai Li	08/16/2017
Jian-Gang Zhu	08/27/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CARNEGIE MELLON UNIVERSITY
<b>Street Address:</b>	5000 FORBES AVENUE
<b>City:</b>	PITTSBURGH
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15213
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15675135
<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) 368-2135
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	STEVEN J. PETKOVSEK
<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>	26100-0086001
<b>NAME OF SUBMITTER:</b>	MARY FLORCZAK
<b>SIGNATURE:</b>	/Mary Florczak/
<b>DATE SIGNED:</b>	04/13/2018
<b>Total Attachments: 4</b>	
source=261000086001assignment#page1.tif	
source=261000086001assignment#page2.tif	
source=261000086001assignment#page3.tif	
source=261000086001assignment#page4.tif	

## ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, HAILI, and JIAN-GANG ZHU, each individually assign to CARNEGIE MELLON UNIVERSITY, a University formed under the laws of Pennsylvania and having a principal place of business at 5000 Forbes Avenue, Pittsburgh, PA 15213, 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 “MAGNETIC RECORDING DEVICE,” and was filed in the United States Patent and Trademark Office on August 11, 2017, as application 15/675,135 (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.

Har Li  
HAI LI

Date: Aug 16th, 2017

Witnessed by:

Signature: Yunwei Qin

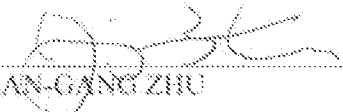
Date: Aug. 16, 2017

Print Name: Yunwei Qin

Signature: Xiao Bai

Date: Aug 16 2017

Print Name: Xiaoyu Bai

  
JIAN-GANG ZHU

Date: 08-17-2017

Witnessed by  
Signature: 

Date: 08-27-2017

Print Name: David E. Laughlin

Signature: Yuwei Qin

Date: 08-27-2017

Print Name: Yuwei Qin

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARNEGIE MELLON UNIVERSITY

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

Name: \_\_\_\_\_

Title: \_\_\_\_\_

216785m.doc