

RECORDATION FORM COVER SHEET  
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE  
U.S. Patent And Trademark Office

To the Honorable Commissioner For Patents: Please record the attached original documents or copy thereof:

## 1. Name of conveying party(ies):

Xia Liu

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other: \_\_\_\_\_

Execution Date: August 4, 2005

## 2. Name and address of receiving party(ies):

Name: The Ohio State University Research  
Foundation

Internal Address:

Street Address: 1960 Kenny Road

City: Columbus

State: Ohio Zip: 43210-1063

Additional name(s) &amp; address(es) attached?

☐ Yes☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s): 11/129,164

B. Patent No.(s): \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Hector J. Ribera

Internal Address: Fenwick &amp; West LLP

Street Address: Silicon Valley Center  
801 California StreetCity: Mountain State: CA Zip Code: 94041  
View

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

☐ Check Enclosed☐ Fee Transmittal Enclosed☒ Charge the indicated fees to the below mentioned  
deposit account.

8. Deposit Account No.: 19-2555

DO NOT USE THIS SPACE

## 9. Statement and signature:

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Hector J. Ribera, Reg. No. 54,397

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, documents: 3

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services, Director of the U.S. Patent and Trademark Office, P.O. Box 1450,  
Alexandria, VA 22313-1450.

Case Docket No.: 23085-09120

700201397

PATENT  
REEL: 016617 FRAME: 0546

CH \$40.00 192555 11129164

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION, a not for profit corporation of the State of Ohio, having a place of business at 1960 Kenny Road, Columbus, Ohio 43210-1063 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled **Sign Based Human-Machine Interaction** ("APPLICATION"), which:

- ☐ is to be filed herewith.
- ☒ was filed on May 12, 2005, and now bears U.S. application serial number 11/129,164.
- ☒ The APPLICATION claims priority from provisional applications filed on May 14, 2004 and December 10, 2004, now bearing U.S. application serial numbers 60/571,319 and 60/635,146, respectively.

2. The entire worldwide right, title, and interest in and to:  
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;  
(c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

Title: Sign Based Human-Machine Interaction  
Filed: May 12, 2005  
Application No.: 11/129,164

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature

Xia Liu

Date of Signature

Aug. 4, 2005

State of OHIOCounty of FRANKLIN

On August 4, 2005 before me, Ryan K. Zinn personally appeared  
[DATE] [NOTARY PUBLIC]

Xia Liu personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Notary Seal

Ryan K. Zinn  
Notary



RYAN K. ZINN  
Notary Public, State of Ohio  
My Commission Expires 02-22-09