

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

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**RECORDATION FORM COVER SHEET
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MS1 - 3618US

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Peng Liu 11/14/07
Hui Jiang 11/15/2007

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Microsoft Corporation

Internal Address: _____

Street Address: One Microsoft Way

City: Redmond

State: WA

Country: _____ Zip: 98052

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) Listed in Box 1 above.

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

A. Patent Application No.(s)

11/943,210 filed 11/20/2007

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Lee & Hayes, PLLC

Internal Address: _____

Street Address: 421 W Riverside Ave Ste 500

City: Spokane

State: WA Zip: 99201

Phone Number: 509-324-9256

Fax Number: 509-323-8979

Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

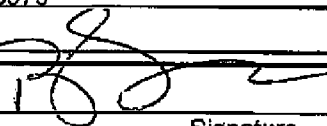
8. Payment Information

a. Credit Card Last 4 Numbers 1109
Expiration Date 06/11

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:



Signature

4-28-08

Date

Brian J. Pangre Reg # 42973
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: **5**

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Recordation Form Cover Sheet
Additional Pages

MS1 - 3618US

Patent Application No

Patent No.

11/943,210 filed 11/20/2007

Name of Conveying Parties

Execution Date

Frank Kao-Pingk Soong

11/14/07

MS Docket No321510.01
(OC Docket NoMS1-361 805

PATENT ASSIGNMENT

WE, Peng Liu, Hui Jiang, Frank Kao-PingK Soong, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "A CONSTRAINED LINE SEARCH OPTIMIZATION A CONSTRAINED LINE SEARCH OPTIMIZATION FOR DISCRIMINATIVE TRAINING OF HMMs ("APPLICATION"), which:

will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 421 W. Riverside Avenue, Suite 500, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (U.S. Serial No. 11/943,210 , filed 11/20/2007) this APPLICATION's U.S. Serial Number and filing date, when known;

was filed on and was given U.S. Serial No. ;

is filed concurrently herewith;

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Nov 14, 2007

DATE

Peng Liu

Peng Liu

DATE

Hui Jiang

Nov 14, 2007

DATE

Frank Kao-PingK Soong

MS Docket No321510.01
(GC Docket NoMS1-3618US

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DATE

Nov. 15, 2007

DATE

DATE

Peng Liu



Hui Jiang

Frank Kao-PingK Soong