

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

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PATENTS ONLY

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)
Chunyi Peng 10/12/2007
Guobin Shen 10/12/2007
Kun Tan 10/12/2007
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: US 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): This document is being filed together with a new application.
A. Patent Application No.(s)
11/868,515 filed 10/7/2007
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 1067
Expiration Date 06/2010
b. Deposit Account Number _____
Authorized User Name _____

9. Signature: [Signature] Signature 11/01/07 Date
Lewis Lee Name of Person Signing Reg # 34656
Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

OP \$40.00 11868515

Recordation Form Cover Sheet
Additional Pages

MS1 - 3589US

Patent Application No			Patent No.
11/868,515	filed	10/7/2007	

<u>Name of Conveying Parties</u>	<u>Execution Date</u>
Yongguang Zhang	10/12/2007

MS Docket No. 320525.01
(OC Docket No. M51-3589U5)

PATENT ASSIGNMENT

WE, Chunyi Peng, Guobin Shen, Kun Tan, Yongguang Zhang,
("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in
a patent application entitled "Acoustic Ranging" ("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. 11/868,515 ,
filed 10/7/2007) this APPLICATION's U.S. Serial Number and filing
date, when known;

was filed on 10/7/2007 and was given U.S. Serial No. 11/868,515;
 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).

10/12/2007
DATE

Chunyi Peng
Chunyi Peng

10/12/2007
DATE

Guobin Shen
Guobin Shen

10/12/2007
DATE

Kun Tan
Kun Tan

10/12/2007
DATE

Yongguang Zhang
Yongguang Zhang