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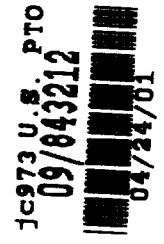
PATENTS ONLY

EL76408639

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of Conveying Part(ies):  
Eric I-Chao Chang  
Jian-Lai Zhou  
Additional name(s) of conveying party(ies) attached? Yes No X

2. Name and address of receiving party(ies):  
Name: Microsoft Corporation  
Internal Address:  
Street Address: One Microsoft Way  
City: Redmond State: WA Zip: 98052  
Additional names(s) & address(es) attached:  Yes  No



09843212

3. Nature of conveyance:  
 Assignment  Security Agreement  
 Merger  Change of Name  
 Other  
Execution Date: 4/20/01

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: 4/20/01

A. Patent Application No.(s):  
Additional numbers attached:  Yes  No

B. Patent No.(s)  
Additional numbers attached:  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Thomas A. Jolly  
Internal Address: Lee & Hayes, PLLC  
Street Address: 421 W. Riverside Ave  
Suite 500  
City: Spokane State: WA Zip: 99201

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

7. Total fee (37 CFR 3.41)..... \$40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: 12-0769

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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.

Thomas A. Jolly  
Name of Person Signing

[Signature]  
Signature

4/24/01  
Date

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Inventorship ..... Chang et al.  
3 Applicant ..... Microsoft Corporation  
4 Attorney's Docket No. .... MS1-666US  
5 Title: A Method And Apparatus For Tracking Pitch In Audio Analysis

6 **PATENT ASSIGNMENT**

7 **PARTIES TO THE ASSIGNMENT**

8 **Assignor(s):**

9 Eric I-Chao Chang  
10 China World Trade Center  
11 South Lodge, Apt. 8C  
12 No. 1 Jian Guo Men Wai Ave  
13 Beijing, China 100004

14 Jian-Lai Zhou  
15 1503th, 113 Building  
16 Shao Yao Jiu Bei Li Zone  
17 Chaoyang District  
18 Beijing, China 100029

19 **Assignee:**

20 Microsoft Corporation  
21 A Corporation in the State of Washington  
22 One Microsoft Way  
23 Redmond, WA 98052

24 **AGREEMENT**

25 WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention  
entitled "A Method And Apparatus For Tracking Pitch In Audio Analysis," as  
described and claimed in the specification forming part of an application for  
United States letters patent executed herewith;

WHEREAS, Microsoft Corporation (hereinafter referred to as  
ASSIGNEE), a corporation of the State of Washington having a place of business  
at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire

1 right, title and interest in and to the invention and in and to any letters patent that  
2 may be granted therefor in the United States and in any and all foreign countries;

3 NOW, THEREFORE, in exchange for good and valuable consideration, the  
4 receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and  
5 transfer unto ASSIGNEE, the entire right, title and interest in and to said  
6 invention, said application and any and all letters patent which may be granted for  
7 said invention in the United States of America and its territorial possessions and in  
8 any and all foreign countries, and in any and all divisions, reissues and  
9 continuations thereof, including the right to file foreign applications directly in the  
10 name of ASSIGNEE and to claim priority rights deriving from said United States  
11 application to which said foreign applications are entitled by virtue of international  
12 convention, treaty or otherwise, said invention, application and all letters patent on  
13 said invention to be held and enjoyed by ASSIGNEE and its successors and  
14 assigns for their use and benefit and of their successors and assigns as fully and  
15 entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this  
16 assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize  
17 and request the Commissioner of Patents and Trademarks to issue all letters patent  
18 on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments  
19 and documents required for the making and prosecution of applications for United  
20 States and foreign letters patent on said invention, for litigation regarding said  
21 letters patent, or for the purpose of protecting title to said invention or letters  
22 patent therefor.

\*\*\*\*\*

1 April 20, 2001

2 Date

Eric I-Chao Chang  
Eric I-Chao Chang

3  
4 Dated April 20, 2001

5 Signature of Witness Karen Lin

6  
7 \*\*\*\*\*

8 April 20, 2001

9 Date

Jianlai Zhou  
Jian-Lai Zhou

10 Dated Apr. 20, 2001

11 Signature of Witness Karen Lin