

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dong Yu</td> <td>09/17/2010</td> </tr> <tr> <td>Li Deng</td> <td>09/15/2010</td> </tr> <tr> <td>Abdel-rahman Mohamed</td> <td>09/15/2010</td> </tr> </tbody> </table>		Name	Execution Date	Dong Yu	09/17/2010	Li Deng	09/15/2010	Abdel-rahman Mohamed	09/15/2010		
Name	Execution Date										
Dong Yu	09/17/2010										
Li Deng	09/15/2010										
Abdel-rahman Mohamed	09/15/2010										
<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Microsoft Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Microsoft Way</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>		Name:	Microsoft Corporation	Street Address:	One Microsoft Way	City:	Redmond	State/Country:	WASHINGTON	Postal Code:	98052
Name:	Microsoft Corporation										
Street Address:	One Microsoft Way										
City:	Redmond										
State/Country:	WASHINGTON										
Postal Code:	98052										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12886568</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12886568						
Property Type	Number										
Application Number:	12886568										
<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (425)936-7329</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 425-707-2290</p> <p>Email: dbouton@microsoft.com</p> <p>Correspondent Name: Dianne Bouton</p> <p>Address Line 1: One Microsoft Way</p> <p>Address Line 2: Patent Group Docketing Dept</p> <p>Address Line 4: Redmond, WASHINGTON 98052</p>											
ATTORNEY DOCKET NUMBER:	330602.01										
NAME OF SUBMITTER:	Garyma Saksena										
<p>Total Attachments: 4</p> <p>source=330602-Executed-Assignment#page1.tif</p>											

CH \$40.00 12886568

**501296461**

**PATENT**  
**REEL: 025018 FRAME: 0362**

source=330602-Executed-Assignment#page2.tif  
source=330602-Executed-Assignment#page3.tif  
source=330602-Executed-Assignment#page4.tif

PATENT ASSIGNMENT

MS Docket No.: 330602.01

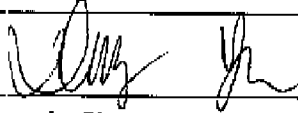
I/WE, Dong Yu, Li Deng and Abdel-rahman Samir Abdel-rahman Mohamed ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " FULL-SEQUENCE TRAINING OF DEEP STRUCTURES FOR SPEECH RECOGNITION" ("APPLICATION"), which:

- ☒ will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, who are associated with customer number 69316, to insert here in parenthesis (Application No. 12/886568, filed 09/21/2010) this APPLICATION's Application No. and filing date, when known;
- ☐ was filed on \_\_\_\_\_ and was given Application 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"));

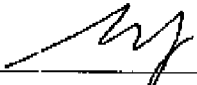
For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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).

	<u>9/17/2010</u>
Inventor's Signature	Date
<u>Dong Yu</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 330602.01

	<u>9/15/2010</u>
Inventor's Signature	Date
<u>Li Deng</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

<u></u>	<u></u>
Inventor's Signature	Date
<u>Abdel-rahman Samir Abdel-rahman Mohamed</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

**PATENT ASSIGNMENT**

MS Docket No.: 330602.01

I/WE, Dong Yu, Li Deng and Abdel-rahman Samir Abdel-rahman Mohamed ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " FULL-SEQUENCE TRAINING OF DEEP STRUCTURES FOR SPEECH RECOGNITION" ("APPLICATION"), which:

☒ will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, who are associated with customer number 69316, to insert here in parenthesis (Application No. 12/886568, filed 09/21/2010) this APPLICATION's Application No. and filing date, when known;

☐ was filed on \_\_\_\_\_ and was given Application 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).

Inventor's Signature	Date
Dong Yu	
Printed Name In English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 330602.01

Inventor's Signature	Date
Li Deng	
Printed Name in English	Printed Name in Native Language (if other than English)

Inventor's Signature <i>Abdel-rahman Samir</i> Abdel-rahman Samir Abdel-rahman Mohamed	Date 15 Sep. 2010 <i>عبد الرحمن سامر عبد الرحمن محمد</i>
Printed Name in English	Printed Name in Native Language (if other than English)