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| TO: The Commissioner of Patents   | 101884  | 383                                   | ned original docum   |   |
| Submission Type   | 16/11/1   | Conveyance                            |  | ionit(a) or copy(ies).                                  |
| New Resubmission (Non-Recordation Document ID # Correction of PTO Error Reel # Frame # Corrective Document Reel # Frame #   | OCT 1 6 2001  |                                       | ent Agreement  |   |
| Conveying Party(ies)  | RADEMARIA   |                                       | Execution Da   |   |
| <ol> <li>KOISHIDA, Kazuhito</li> <li>CUPERMAN, Vladimir</li> <li>MAJIDIMEHR, Amir H.</li> <li>GERSHO, Allen</li> <li>6.</li> </ol>  |   |                                       | October 1, 20<br>October 8, 20<br>October 1, 20<br>October 3, 20   | 001<br>001  |
| ☐ Mark if Additional Names of Co  | nveying Parties Attach                                  | ed                                    |  |   |
| Receiving Party   | moying raines Audon                                     |                                       |  |   |
| Name Microsoft Corpor Name Address One Microsoft W Address Address Redmond City   | ay<br><u>Washing</u><br>State/Co                        | untry                                 | <u>98052</u><br>Zip Code   |   |
| Mark if Additional Names of Re  |   | ed                                    | 0. 100 to |   |
| Correspondent Name and Addres   | 38  |                                       |  |   |
| Philip M. Pippenger, Reg. No. 46,05 Leydig, Voit & Mayer, Ltd. Two Prudential Plaza, Suite 4900 Chicago, Illinois 60601-6780  Pages Enter the total number  Application Number(s) or Patent | of pages of the attache                                 |                                       | Facsimile: (3° Attorney Dock  document including an  Mark if addition  | ket No. 208996  ny attachments: 1  nal numbers attached |
| Enter either the Patent Application Nur Patent Application N  |   | TO NOT ENTER B                        | Patent Numbers   |   |
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| If this document is being filed toget application was signed by the first r   | ner with a <i>new</i> Patent A<br>amed executing invent | Application, ente<br>tor.             | r the date the patent  | Month Day Year  |
| Patent Cooperation Treaty (PCT) Enter PCT application number only   | if a U.S. Application                                   | PCT                                   | PCT  | PCT   |
| Number has not been assigned.   |   | PCT                                   | PCT  | PCT   |
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| Statement and Signature   |   |                                       | and correct and a  | ny attached copy is a                                   |
| Statement and Signature  To the best of my knowledge a true copy of the original docum  | nd belief, the foregoing<br>ent. Charges to depos       | information is t<br>sit account are a | true and correct and a<br>authorized, as indicate  | d herein.   |
|   |   | · .                                   | October 9, 20  |   |
| Phillip M. Pippenger, Reg. No. 46,0<br>Name of Person Signing   | 5ig   | gnature                               |  | Date  |
| Name of Ferson organis  |   |                                       |  |   |

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| Inventorship         | Koishida et al. |
|----------------------|-----------------|
| Applicant            |                 |
| Attorney's Docket No |                 |
|                      |                 |

Title: METHOD FOR CODING SPEECH AND MUSIC SIGNALS

### PATENT ASSIGNMENT

#### PARTIES TO THE ASSIGNMENT

## Assignor(s):

Kazuhito Koishida 7507 146th Avenue NE Redmond, Washington 98052

Vladimir Cuperman 5635 Cielo Avenue Goleta, California 93117

Amir H. Majidimehr 14824 164 Place NE Woodinville, Washington 98072

Allen Gersho 4604 Via Gennita Santa Barbara, California 93111

#### Assignee:

Microsoft Corporation Corporation in the State of Washington One Microsoft Way Redmond, WA 98052

#### **AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "METHOD FOR CODING SPEECH AND MUSIC SIGNALS," as described and claimed in the specification forming part of an application for United States letters patent referenced above;

Page 1 of 3 PATENT

REEL: 012266 FRAME: 0510

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

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

Page 2 of 3

| October   50, 2001 | 1) Fry Fry         |
|--------------------|--------------------|
| Date               | Kazuhito Koishida  |
|                    |                    |
|                    |                    |
| Date               | Vladimir Cuperman  |
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| 10 - 1 - 01        | A H. M.L.          |
| Date               | Ámir H. Majidimehr |
|                    |                    |
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Date Allen Gersho

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventorship Koishida et al.
Applicant Microsoft Corporation
Attorney's Docket No. 208996

Title: METHOD DING SPEECH AND MUSIC SIGNALS

# **PATENT ASSIGNMENT**

# PARTIES TO THE ASSIGNMENT

Assignor(s):

Kazuhito Koishida

Vladimir Cuperman 5635 Cielo Avenue Goleta, California 93117

Amir H. Majidimehr

Allen Gersho 4604 Via Gennita Santa Barbara, California 93111

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Page 1 of 3

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

Page 2 of 3

| Date             | Kazuhito Koishida  |
|------------------|--------------------|
| 10/08/01<br>Date | Vladimir Cupermán  |
| Date             | Amir H. Majidimehr |
| Date             | Allen Gersho       |

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: METHOD FOR CODING SPEECH AND MUSIC SIGNALS

#### PATENT ASSIGNMENT

#### **PARTIES TO THE ASSIGNMENT**

Assignor(s):

Kazuhito Koishida

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| Date  | Kazuhito Koishida  |
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| Date  |                    |
| Date  | Amir H. Majidimehr |
| Dot 3 | Allen Gersho       |

**RECORDED: 10/16/2001**