

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4279935

|   |  |                       |
|---|--|-----------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                         |                       |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                             |                       |
| <b>CONVEYING PARTY DATA</b>   |  |                       |
|   | <b>Name</b>                            | <b>Execution Date</b> |
|   | JOEL SOLE                              | 07/13/2009            |
|   | LIWEI GUO                              | 07/14/2009            |
|   | PENG YIN                               | 07/13/2009            |
|   | YUNFEI ZHENG                           | 07/09/2009            |
|   | XIAOAN LU                              | 07/08/2009            |
|   | QIAN XU                                | 07/09/2009            |
| <b>RECEIVING PARTY DATA</b>   |  |                       |
| <b>Name:</b>  | THOMSON LICENSING                      |                       |
| <b>Street Address:</b>  | 1 RUE JEANNE D'ARC                     |                       |
| <b>City:</b>  | ISSY-LES-MOULINEAUX                    |                       |
| <b>State/Country:</b>   | FRANCE                                 |                       |
| <b>Postal Code:</b>   | 92130                                  |                       |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |                       |
|   | <b>Property Type</b>                   | <b>Number</b>         |
|   | Application Number:                    | 13376640              |
| <b>CORRESPONDENCE DATA</b>  |  |                       |
| <b>Fax Number:</b>  |  |                       |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |  |                       |
| <b>Phone:</b>   | 1-609-734-6858                         |                       |
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| <b>Correspondent Name:</b>  | BRIAN J. DORINI, THOMSON LICENSING LLC |                       |
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| <b>Address Line 4:</b>  | PRINCETON, NEW JERSEY 08540            |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>  | PU090074-US-PCT                        |                       |
| <b>NAME OF SUBMITTER:</b>   | RONALD J. KOLCZYNSKI                   |                       |
| <b>SIGNATURE:</b>   | /Ronald J. Kolczynski/                 |                       |
| <b>DATE SIGNED:</b>   | 02/17/2017                             |                       |
| This document serves as an Oath/Declaration (37 CFR 1.63).  |  |                       |

**Total Attachments: 2**

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**ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR  
LETTERS PATENT OF THE UNITED STATES OF AMERICA**

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 6 joint inventors (if plural inventors are named below) of the inventions relating to METHODS AND APPARATUS FOR ADAPTIVE PROBABILITY UPDATE FOR NON-CODED SYNTAX

described in an Application for Patent filed on June 29, 2009 under Serial No. 61/231,201 and described in the file associated with Docket No. PU090074 listed above or, if not identified here by filing date and serial number or by the Docket Number listed above, executed by me on even date with my execution of this Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

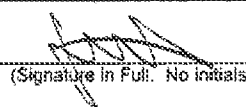
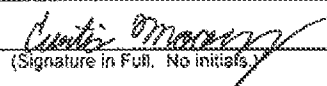
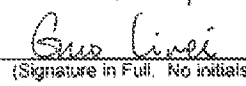
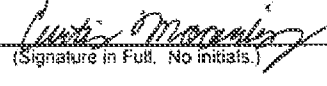
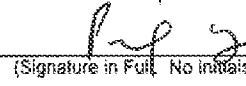
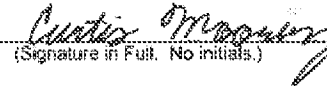
I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

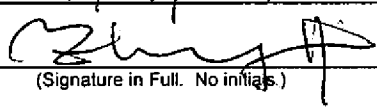
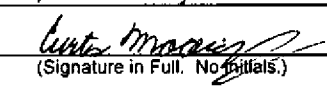
I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

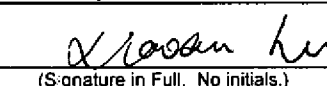
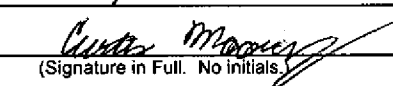
|                     |   |   |                   |
|---------------------|---|---|-------------------|
| Signed at           | <u>Princeton, New Jersey</u>  | Date  | <u>07/13/2009</u> |
| Inventor (1)        | <u>Joel Sole</u><br>(Type or Print)                                   | <br>(Signature in Full. No initials.)   |                   |
| Post Office Address | <u>1006 Quail Ridge Drive, Plainsboro, New Jersey 08536 USA</u>       |   |                   |
| 1st Witness         | <u>Curtis Mooring</u><br>(Type or Print)                              | <br>(Signature in Full. No initials.) |                   |
| 2nd Witness         | <br>(Type or Print)   | <br>(Signature in Full. No initials.)   |                   |
| Signed at           | <u>Princeton, New Jersey</u>  | Date  | <u>07/14/2009</u> |
| Inventor (2)        | <u>Liwei Guo</u><br>(Type or Print)                                   | <br>(Signature in Full. No initials.) |                   |
| Post Office Address | <u>100 Middlesex Blvd, Apt. 311, Plainsboro, New Jersey 08536 USA</u> |   |                   |
| 1st Witness         | <u>Curtis Mooring</u><br>(Type or Print)                              | <br>(Signature in Full. No initials.) |                   |
| 2nd Witness         | <br>(Type or Print)   | <br>(Signature in Full. No initials.)   |                   |
| Signed at           | <u>Princeton, New Jersey</u>  | Date  | <u>07/13/2009</u> |
| Inventor (3)        | <u>Peng Yin</u><br>(Type or Print)                                    | <br>(Signature in Full. No initials.) |                   |
| Post Office Address | <u>49 Thoreau Drive, Plainsboro, New Jersey 08536 USA</u>             |   |                   |
| 1st Witness         | <u>Curtis Mooring</u><br>(Type or Print)                              | <br>(Signature in Full. No initials.) |                   |
| 2nd Witness         | <br>(Type or Print)   | <br>(Signature in Full. No initials.)   |                   |

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THOMSON Licensing LLC  
PQ Box 5312  
Princeton, NJ 08543-5312

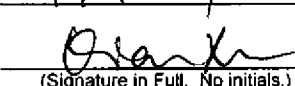
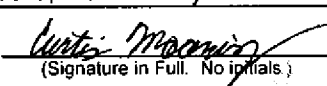
**ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR  
LETTERS PATENT OF THE UNITED STATES OF AMERICA (Cont'd)**

|              |   |      |   |
|--------------|---|------|---|
| Signed at    | Princeton, New Jersey   | Date | 07/09/2009  |
| Inventor (4) | Yunfei Zheng<br>(Type or Print)   |      | <br>(Signature in Full. No initials.) |
|              | Post Office Address 5402 Ravens Crest Dr., Plainsboro, New Jersey 08536 USA |      |   |
| 1st Witness  | Curtis Manning<br>(Type or Print)   |      | <br>(Signature in Full. No initials.) |
| 2nd Witness  |   |      | (Signature in Full. No initials.)   |

|              |   |      |   |
|--------------|---|------|---|
| Signed at    | Princeton, New Jersey   | Date | 07/08/09  |
| Inventor (5) | Xiaoan Lu<br>(Type or Print)  |      | <br>(Signature in Full. No initials.) |
|              | Post Office Address 30 Kennedy Court, Princeton, New Jersey 08540 USA |      |   |
| 1st Witness  | Curtis Manning<br>(Type or Print)                                     |      | <br>(Signature in Full. No initials.) |
| 2nd Witness  |   |      | (Signature in Full. No initials.)   |

|              |   |      |   |
|--------------|---|------|---|
| Signed at    | Princeton, New Jersey   | Date | 7/9/09  |
| Inventor (6) | Qian Xu<br>(Type or Print)  |      | <br>(Signature in Full. No initials.) |
|              | Post Office Address 5914 Ravens Crest Dr., Plainsboro, New Jersey 08536 USA |      |   |
| 1st Witness  | Curtis Manning<br>(Type or Print)   |      | <br>(Signature in Full. No initials.) |
| 2nd Witness  |   |      | (Signature in Full. No initials.)   |

|              |                     |      |                                   |
|--------------|---------------------|------|-----------------------------------|
| Signed at    |                     | Date |                                   |
| Inventor (7) |                     |      | (Signature in Full. No initials.) |
|              | Post Office Address |      |                                   |
| 1st Witness  |                     |      | (Signature in Full. No initials.) |
| 2nd Witness  |                     |      | (Signature in Full. No initials.) |

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