### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3007225

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name              | Execution Date |
|-------------------|----------------|
| MEHREZ SOUDEN     | 08/25/2014     |
| KEISUKE KINOSHITA | 08/25/2014     |
| TOMOHIRO NAKATANI | 08/25/2014     |
| MARC DELCROIX     | 08/25/2014     |
| TAKUYA YOSHIOKA   | 08/25/2014     |

### **RECEIVING PARTY DATA**

| Name:           | NIPPON TELEGRAPH AND TELEPHONE CORPORATION |
|-----------------|--|
| Street Address: | 5-1, OTEMACHI 1-CHOME                      |
| City:           | CHIYODA-KU, TOKYO                          |
| State/Country:  | JAPAN                                      |
| Postal Code:    | 100-8116                                   |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14382673 |

### **CORRESPONDENCE DATA**

**Fax Number:** (703)413-2220

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.

Phone:(703) 413-3000Email:sbadic@oblon.comCorrespondent Name:OBLON, SPIVAK, ET AL.Address Line 1:1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 438918US   |  |
|-------------------------|--|--|
| NAME OF SUBMITTER:      | SVJETLANA BADIC  |  |
| SIGNATURE:              | /Svjetlana Badic/  |  |
| DATE SIGNED:            | 09/03/2014   |  |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |  |

**Total Attachments: 5** 

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PATENT

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| Title of NOISE ESTIMATION APPARATUS, NOISE ESTIMATION METHOD, NOISE Invention ESTIMATION PROGRAM, AND RECORDING MEDIUM  |
|---|
| As the below named inventor, I hereby declare that:   |
| This declaration [ ] The attached application, or   |
| is directed to: United States application or PCT international application number PCT/JP2013/051980 filed on January 30, 2013   |
| The above-identified application was made or authorized to be made by me.   |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  |
| WHEREAS, NIPPON TELEGRAPH AND TELEPHONE CORPORATION   |
| (hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116 Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;   |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.   |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.  |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.   |
| LEGAL NAME OF INVENTOR.   |
| Inventor: Mehrez SOUDEN Date: August 95, 2014   |
| Signature:  |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

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| any and all foreign<br>assignee of my ent<br>(his) successors an   | ize and request the Patent Office Officials in the United to countries to issue any and all of said Letters Patent, ire right, title and interest in and to the same, for the said assigns, to the full end of the term for which said Le would have been held by me had this Assignment and   | when g<br>ole use a<br>etters P                      | granted, to said ASSIGNEE as the and behoof of said ASSIGNEE, its atent may be granted, as fully and   |
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|  | vieldge that any willful false statement made in this declument of not more than five (5) years, or both.  | aration i  | s punishable under 18 U.S.C. 1001  |
| LEGAL NAME OF  | FINVENTOR  |  |  |
| Inventor: Keisuk   | <del></del>  | Date:  | August 25, 2014  |
| Signature:   | eiruke Kinochtta   |  |  |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

| Title of<br>Invention   | NOISE ESTIMATION APPARATUS, NOISI<br>ESTIMATION PROGRAM, AND RECORD  |  |   |
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| any and all foreign<br>assignee of my enti-<br>(his) successors and   | ze and request the Patent Office Officials in the Unicountries to issue any and all of said Letters Patentre right, title and interest in and to the same, for the dassigns, to the full end of the term for which said would have been held by me had this Assignment an  | t, when g<br>sole use :<br>Letters P   | granted, to said ASSIGNEE as the and behoof of said ASSIGNEE, its latent may be granted, as fully and   |
| respecting said in<br>continuation, substi<br>all of said Letters<br>possible to aid said                     | that I will communicate to said ASSIGNEE or its (vention, and testify in any legal proceeding, sign tute, renewal and reissue applications, execute all ne Patent to be issued to said ASSIGNEE, make all r ASSIGNEE, its (his) successors and assigns, to obtited States and its territorial possessions and in any an  | all lawi<br>cessary a<br>ightful o<br>tain and   | ul papers, execute all divisional,<br>ssignment papers to cause any and<br>aths, and, generally do everything<br>enforce proper protection for said   |
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| LEGAL NAME OF   | INVENTOR   |  | -   |
| Inventor: Tomohi  |  | Date:  | August 25, 2014   |
| Signature: 700  | whire heliatons  | -  |   |

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1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

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| WHEREAS, NIPPON TELEGRAPH AND TELEPHONE CORPORATION   |  |
| (hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116 Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;   |  |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. |  |
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| LEGAL NAME OF INVENTOR  |  |
| Inventor: Marc DELCROIX Date: August 25, 2014   |  |
| Signature: Wolfersix  |  |

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| LEGAL NAME OF INVENTOR  |  |
| Inventor: Takuya YOSHIOKA Date: August 25, 2014   |  |
| Signature: Thy The  |  |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 033659 FRAME: 0526

RECORDED: 09/03/2014