

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>AKIRA HIRANO</td> <td>10/24/2013</td> </tr> <tr> <td>MITSunORI FUKUTOKU</td> <td>10/24/2013</td> </tr> <tr> <td>YOSHIAKI KISAKA</td> <td>10/24/2013</td> </tr> <tr> <td>YOSHIAKI SONE</td> <td>10/24/2013</td> </tr> <tr> <td>AKIHIRO KADOHATA</td> <td>10/24/2013</td> </tr> <tr> <td>TAKAFUMI TANAKA</td> <td>10/24/2013</td> </tr> </tbody> </table>		Name	Execution Date	AKIRA HIRANO	10/24/2013	MITSunORI FUKUTOKU	10/24/2013	YOSHIAKI KISAKA	10/24/2013	YOSHIAKI SONE	10/24/2013	AKIHIRO KADOHATA	10/24/2013	TAKAFUMI TANAKA	10/24/2013
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TAKAFUMI TANAKA	10/24/2013														
RECEIVING PARTY DATA															
Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION														
Street Address:	3-1, OTEMACHI 2-CHOME														
Internal Address:	CHIYODA-KU														
City:	TOKYO														
State/Country:	JAPAN														
Postal Code:	1008116														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14123773</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14123773										
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Application Number:	14123773														
CORRESPONDENCE DATA															
Fax Number:	(203)327-6401														
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NAME OF SUBMITTER:	PAUL D. GREELEY
Signature:	/Paul D. Greeley/
Date:	12/04/2013
Total Attachments: 3 source=20131126_0009535USU_3294_ASSIGN#page1.tif source=20131126_0009535USU_3294_ASSIGN#page2.tif source=20131126_0009535USU_3294_ASSIGN#page3.tif	

JOINT ASSIGNMENT

The ASSIGNORS,

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have invented certain new and useful improvements in

TRANSMISSION SYSTEM AND TRANSMISSION METHOD

an invention which is fully described in an application for Letters Patent of the United States executed by them this day; and

The ASSIGNEE, **NIPPON TELEGRAPH AND TELEPHONE CORPORATION**, a Japanese corporation having its principal office at 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 1008116 Japan, wishes to acquire the entire right, title and interest in and to the invention and under Letters Patent which may be obtained for this invention.

For valuable and legally sufficient considerations, receipt of which are hereby acknowledged, the Assignors sell, assign and transfer to Assignee, its successors and assigns, the entire right, title and interest for the United States in and to the above-identified invention and application, divisionals, continuations, and continuation-in-part and for the full term of any Letters Patent of the United States that may issue for the invention.

The Assignors also sell, assign and transfer to Assignee the entire right, title and interest in and to the invention and application for Letters Patent and Letters Patent therefor in all countries foreign to the United States, including all rights under the International Convention. The Assignors further authorize Assignee to apply for Letters Patent in foreign countries in the name of Assignee, and to claim the priority of the filing date of the United States Application under the provisions of the International Convention.

The Assignors further agree, for themselves and their legal representatives, they will assist Assignee in the prosecution before the United States Patent Office and the Federal Courts of this application, and other applications for Letters Patent including renewals, continuations, divisions, reissues and substitutions, that the Assignee elects to make covering the invention. The Assignors vest in Assignee like exclusive title in and to all such other applications and Letters Patent. The Assignors will execute and deliver to Assignee any documents which may be requested by Assignee to carry out the terms of this Assignment.

The Commissioner of Patents of the United States is authorized and requested to issue Letters Patent of the United States to Assignee. The Assignors also authorize and request the equivalent authorities in foreign countries to issue the patents of foreign countries to Assignee.

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Inventor's Name

Akira Hirano
Signature

October 24, 2013
Date

Michiharu Mito
Witness

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