

PATENT ASSIGNMENT

Electronic Version v1.1
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| Tomohiro TOKUYASU | 02/15/2010 |
| Makoto UMEUCHI | 02/15/2010 |
| Toshihiro MANABE | 02/15/2010 |
| Hiroshi HOJO | 02/15/2010 |
| Kengo NAGATA | 02/15/2010 |
| Tadao KOBAYASHI | 02/09/2010 |

RECEIVING PARTY DATA

| | |
|-----------------|--|
| Name: | NIPPON TELEGRAPH AND TELEPHONE CORPORATION |
| Street Address: | 3-1, Otemachi 2-chome, Chiyoda-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 100-8116 |

| | |
|-----------------|--|
| Name: | NTT BROADBAND PLATFORM, INC. |
| Street Address: | 2-14-10 Nihonbashi Ningyo-cho, Chuo-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 103-0013 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12676326 |

CORRESPONDENCE DATA

Fax Number: (248)641-0270
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
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 Email: smcgaw@hdp.com

CH \$40.00 12676326

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**PATENT
 REEL: 024025 FRAME: 0094**

Correspondent Name: Harness, Dickey & Pierce, PLC
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Address Line 2: Gregory A. Stobbs
Address Line 4: Bloomfield Hills, MICHIGAN 48303

| | |
|-------------------------|-------------------|
| ATTORNEY DOCKET NUMBER: | 6268-000016/US/NP |
|-------------------------|-------------------|

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|--------------------|-------------|
| NAME OF SUBMITTER: | Susan McGaw |
|--------------------|-------------|

Total Attachments: 4
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ASSIGNMENT

Atty. Docket No. 6268-000016/US/NP

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

WIRELESS RELAY DEVICE AND WIRELESS COMMUNICATION SYSTEM

for which Assignor is about to make or has made United States or International application for patent

- (a) executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) executed on _____, _____, _____; or
- (c) filed on August 28, 2008, and assigned Serial No. _____ or PCT International Application No. PCT/JP2008/002334;
- (d) U.S. Patent No. _____, issued _____; and

WHEREAS, NIPPON TELEGRAPH AND TELEPHONE CORPORATION and NTT Broadband Platform, Inc., Japanese corporations, each having a place of business at 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116 Japan and 2-14-10 Nihonbashi Ningyo-cho, Chuo-ku, Tokyo 103-0013 Tokyo hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby authorizes and requests my attorney to insert here in parentheses (Application No. 12/676,326, filed March 3, 2010) the filing date and application number of said application when known.

ASSIGNMENT

Tomohiro Tokuyasu
First inventor: Tomohiro Tokuyasu

Feb. 15, 2010
Date

Makoto Umeuchi
Second joint inventor: Makoto Umeuchi

Feb. 15, 2010
Date

Toshihiro Manabe.
Third joint inventor: Toshihiro Manabe

Feb. 15, 2010
Date

Hiroshi Hojo
Fourth joint inventor: Hiroshi Hojo

Feb 15, 2010
Date

Kengo Nagata
Fifth joint inventor: Kengo Nagata

Feb. 15, 2010
Date

Sixth joint inventor: Tadao Kobayashi

Date

ASSIGNMENT

Atty. Docket No. 6268-000016/US/NP

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:
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for which Assignor is about to make or has made United States or International application for patent

- (a) executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) executed on _____, _____, _____; or
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NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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Assignor hereby authorizes and requests my attorney to insert here in parentheses (Application No. 12/676,326, filed March 3, 2010) the filing date and application number of said application when known.

ASSIGNMENT

First inventor: Tomohiro Tokuyasu

Date

Second joint inventor: Makoto Umeuchi

Date

Third joint inventor: Toshihiro Manabe

Date

Fourth joint inventor: Hiroshi Hojo

Date

Fifth joint inventor: Kengo Nagata

Date

小林 忠 昂

Sixth joint inventor: Tadao Kobayashi

09. Feb, 2010

Date