PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3280313

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| RODERICK A. HYDE | 01/31/2013 |
| JORDIN T. KARE | 02/26/2013 |
| LOWELL L. WOOD JR. | 02/03/2013 |

RECEIVING PARTY DATA

| Name: | ELWHA LLC |
|-----------------|---------------------|
| Street Address: | 3150 - 139TH AVE SE |
| City: | BELLEVUE |
| State/Country: | WASHINGTON |
| Postal Code: | 98005 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14667392 |

CORRESPONDENCE DATA

Fax Number:

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: 801-328-3131

Email: kory.christensen@stoel.com

Correspondent Name: ELWHA LLC C/O STOEL RIVES LLP KORY D. CH

Address Line 1: 201 S. MAIN STREET

Address Line 2: SUITE 1100

Address Line 4: SALT LAKE CITY, UTAH 84111

| ATTORNEY DOCKET NUMBER: | 46076/260 | |
|-------------------------|------------------------------|--|
| NAME OF SUBMITTER: | BMITTER: KORY D. CHRISTENSEN | |
| SIGNATURE: | /Kory D. Christensen/ | |
| DATE SIGNED: | 03/24/2015 | |

Total Attachments: 4

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PATENT 503233695 REEL: 035246 FRAME: 0001

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PATENT REEL: 035246 FRAME: 0002

PATENT APPLICATION

Docket No.: 46076/99

ASSIGNMENT

We, Roderick A. Hyde, Jordin T. Kare, and Lowell L. Wood, Jr., declare that we have

invented the invention described in a United States Utility Application Serial No. 13/735,960,

titled TOPOGRAPHIC FEEDFORWARD SYSTEM, filed on January 7, 2013, in the United

States Patent and Trademark Office, identified as Stoel Rives LLP Docket No. 46076/99.

The Assignee, Elwha LLC, a limited liability company of the State of Delaware, having a

place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, desires to secure the

entire right, title and interest therein.

For good and valuable consideration, the receipt and sufficiency of which we hereby

acknowledge, WE HEREBY ASSIGN TO THE ASSIGNEE:

The entire right, title and interest in said inventions in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of Letters

Patent or Patents granted thereon, and in all corresponding applications filed in

countries foreign to the United States, and in all patents issuing thereon in the

United States and Foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim

the benefits of the International Convention for such applications.

We hereby authorize and request the United States Commissioner of Patents and

Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their

patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the

owner of the entire interest, for the sole use and benefit of the said Assignee, its successors,

assigns and legal representatives.

PATENT

REEL: 035246 FRAME: 0003

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

| Dated: 1/31/2013 | Rodoruck a Style |
|------------------|---------------------------|
| | Roderick A. Hyde |
| | 9915 – 161st Avenue N.E. |
| | Redmond, WA 98052 |
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| Dated: | |
| Dated. | Jordin T. Kare |
| | 908 15th Ave. East |
| ; | Seattle, WA 98112 |
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| Dated: | |
| | Lowell L. Wood, Jr. |
| | 989 112th Avenue NE #2310 |
| | Bellevue, WA 98004 |

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following:

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RECORDED: 03/24/2015

PATENT REEL: 035246 FRAME: 0006