

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4225016

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RODERICK A. HYDE	11/20/2015
JORDIN T. KARE	12/03/2015
ERIC C. LEUTHARDT	11/06/2015
MARK A. MALAMUD	11/30/2015
TONY S. PAN	02/09/2016
ELIZABETH A. SWEENEY	11/19/2015
CLARENCE T. TEGREENE	04/05/2016
CHALRES WHITMER	10/14/2016
LOWELL L. WOOD JR.	03/26/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ELWHA LLC
<b>Street Address:</b>	3150 - 139TH AVE SE
<b>City:</b>	BELLEVUE
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98005
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14843696
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(402)504-1636
<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>	402-502-1020
<b>Email:</b>	uspto@adventip.com
<b>Correspondent Name:</b>	ADVENT, LLP/INTELLECTUAL VENTURES THE AD
<b>Address Line 1:</b>	17838 BURKE STREET
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	OMAHA, NEBRASKA 68118
<b>ATTORNEY DOCKET NUMBER:</b>	10163.0056US01
<b>NAME OF SUBMITTER:</b>	DANIEL J. HONZ

PATENT

<b>SIGNATURE:</b>	/daniel j. honz/
<b>DATE SIGNED:</b>	01/13/2017
<b>Total Attachments: 11</b> source=1213-002-014-000000-AssignmentSigned#page1.tif source=1213-002-014-000000-AssignmentSigned#page2.tif source=1213-002-014-000000-AssignmentSigned#page3.tif source=1213-002-014-000000-AssignmentSigned#page4.tif source=1213-002-014-000000-AssignmentSigned#page5.tif source=1213-002-014-000000-AssignmentSigned#page6.tif source=1213-002-014-000000-AssignmentSigned#page7.tif source=1213-002-014-000000-AssignmentSigned#page8.tif source=1213-002-014-000000-AssignmentSigned#page9.tif source=1213-002-014-000000-AssignmentSigned#page10.tif source=1213-002-014-000000-AssignmentSigned#page11.tif	

## ASSIGNMENT

WHEREAS, we, 1) Roderick A. Hyde, 2) Jordin T. Kare, 3) Eric C. Leuthardt, 4) Mark A. Malamud, 5) Tony S. Pan, 6) Elizabeth A. Sweeney, 7) Clarence T. Tegreene, 8) Charles Whitmer and 9) Lowell L. Wood, Jr. (hereinafter referred to as ASSIGNORS), having post office addresses of 1) 9915 161<sup>st</sup> Avenue Ne, Redmond, WA 95125, 2) 1567 Keesling Avenue, San Jose, CA 95125, 3) 6358 Pershing Avenue, St. Louis, MO 63130, 4) 1508 Ninth Avenue W, Seattle, WA 98119, 5) 211 112<sup>th</sup> Avenue NE, Apt. 406, Bellevue, WA 98004, 6) 702 North 143<sup>rd</sup> Street, Seattle, WA 98133, 7) 5910 East Mercer Way, Mercer Island, WA 98040, 8) 15509 Uplands Way SE, North Bend, WA 98045 and 9) 989 112<sup>th</sup> Avenue NE, #2310, Bellevue, WA 98004, respectively, are the joint inventors of an invention entitled “SYSTEMS WITH INTERACTIVE MANAGEMENT OF ENVIRONMENTAL OBJECTS RELATIVE TO HUMAN APPENDAGES” as described and claimed in the specification for which an application for United States letters patent was filed on September 2, 2015 and assigned Application No. 14/843,696; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability company of the State of Delaware, having a place of business at 3150 139<sup>th</sup> Avenue SE, Bellevue, WA 98005, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial

possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

11/20/2015  
Date

Roderick A. Hyde  
Roderick A. Hyde

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

\_\_\_\_\_  
Eric C. Leuthardt

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Forms\asgt-joint-post.doc

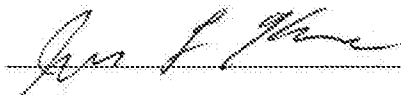
invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roderick A. Hyde

12/3/2015

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

\_\_\_\_\_  
Eric C. Leuthardt

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Form\assgt-joint-post.doc

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date

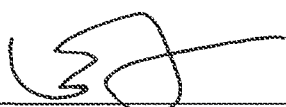
\_\_\_\_\_  
Roderick A. Hyde

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

11/10/15

\_\_\_\_\_  


\_\_\_\_\_  
Date

\_\_\_\_\_  
Eric C. Leuthardt

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Forms\assgt-joint-post.doc

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roderick A. Hyde

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

\_\_\_\_\_  
Eric C. Leuthardt

11-30-15

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Forms\assgt-joint-post.doc



invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roderick A. Hyde

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

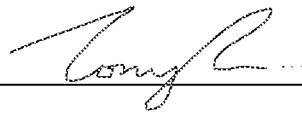
\_\_\_\_\_  
Eric C. Leuthardt

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

02/09/2016

\_\_\_\_\_  
Date

\_\_\_\_\_  
  
\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Forms\assgt-joint-post.doc

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roderick A. Hyde

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

\_\_\_\_\_  
Eric C. Leuthardt

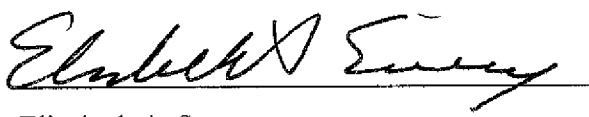
\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
11-19-15

\_\_\_\_\_  


\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Forms\assgt-joint-post.doc

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date Roderick A. Hyde

\_\_\_\_\_  
Date Jordlin T. Kare

\_\_\_\_\_  
Date Eric C. Leuthardt

\_\_\_\_\_  
Date Mark A. Malamud

\_\_\_\_\_  
Date Tony S. Pan

\_\_\_\_\_  
Date Elizabeth A. Sweeney

4/5/16  
\_\_\_\_\_  
Date Clarence T. Tegreene

\_\_\_\_\_  
Date Charles Whitmer

\_\_\_\_\_  
Date Lowell L. Wood, Jr.

V:\Patent Forms\enrg-joint-post.doc

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date Roderick A. Hyde

\_\_\_\_\_  
Date Jordin T. Kare

\_\_\_\_\_  
Date Eric C. Leuthardt

\_\_\_\_\_  
Date Mark A. Malamud

\_\_\_\_\_  
Date Tony S. Pan

\_\_\_\_\_  
Date Elizabeth A. Sweeney

\_\_\_\_\_  
Date Clarence T. Tegreene

10/14/2016  
Date   
Charles Whitmer

\_\_\_\_\_  
Date Lowell L. Wood, Jr.

V:\Patent Forms\assgt-joint-post.doc

invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roderick A. Hyde

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jordin T. Kare

\_\_\_\_\_  
Date

\_\_\_\_\_  
Eric C. Leuthardt

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark A. Malamud

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tony S. Pan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Elizabeth A. Sweeney

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clarence T. Tegreene

\_\_\_\_\_  
Date

\_\_\_\_\_  
Charles Whitmer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lowell L. Wood, Jr.

V:\Patent Forms\assgt-joint-post.doc