502348671 05/15/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jesse R. Cheatham III	03/25/2013
Philip Andrew Eckhoff	03/27/2013
William Gates	05/13/2013
Roderick A. Hyde	03/21/2013
Muriel Y. Ishikawa	03/27/2013
Jordin T. Kare	04/08/2013
Nathan P. Myhrvold	03/22/2013
Tony S. Pan	04/07/2013
Robert C. Petroski	03/21/2013
Clarence T. Tegreene	05/15/2013
David B. Tuckerman	03/27/2013
Charles Whitmer	05/15/2013
Lowell L. Wood Jr.	03/30/2013
Victoria Y.H. Wood	03/26/2013

RECEIVING PARTY DATA

Name:	Elwha LLC
Street Address:	11235 S.E. 6th Street, Suite 200
Internal Address:	Attn: Paula Loud
City:	Bellevue
State/Country:	WASHINGTON
Postal Code:	98004

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13790613

CORRESPONDENCE DATA

PATENT REEL: 030419 FRAME: 0980 :H \$40.00 13

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Fax Number: 426790566

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 425-467-2300

Email: paulal@intven.com

Correspondent Name: Clarence T. Tegreene

Address Line 1: 11235 S.E. 6th Street, Suite 200

Address Line 2: Attn: Paula Loud

Address Line 4: Bellevue, WASHINGTON 98004

ATTORNEY DOCKET NUMBER:	0910-006-001-CIP005
NAME OF SUBMITTER:	Corrie L. Vaa
Signature:	/Corrie L. Vaa/
Date:	05/15/2013

Total Attachments: 15

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> PATENT REEL: 030419 FRAME: 0981

ASSIGNMENT

WHEREAS, we, JESSE R. CHEATHAM, III; PHILIP ANDREW ECKHOFF; WILLIAM GATES; RODERICK A. HYDE; MURIEL Y. ISHIKAWA; JORDIN T. KARE; NATHAN P. MYHRVOLD; TONY S. PAN; ROBERT C. PETROSKI; CLARENCE T. TEGREENE; DAVID B. TUCKERMAN; CHARLES WHITMER; LOWELL L. WOOD, JR.; VICTORIA Y.H. WOOD (hereinafter referred to as ASSIGNORS), having post office addresses of 1301 Spring Street, Apt. 11E, Seattle, WA 98104; 410 – 102nd Ave. S.E., Apt. 6, Bellevue, WA 98004; One Microsoft Way, Redmond, WA 98052-6399; 9915 - 161st Avenue N.E., Redmond, WA 98052; 1185 Hillcrest Avenue, Livermore, CA 94550-4921; 908 - 15th Avenue East, Seattle, WA 98112: 11235 S.E. 6th Street, # 200, Bellevue, WA 98004; 7 Bowdoin St. Apt. 2, Cambridge, MA 02138; 532 - 14th Avenue E. #306, Seattle, WA 98112; 5910 E Mercer Way, Mercer Island, WA 98040; 3 Wellesley Court, Lafayette, CA 94549; 15509 Uplands Way S.E., North Bend, WA 98045; 989 – 112th Avenue N.E., #2310, Bellevue, WA 98004, and 1185 Hillcrest Avenue, Livermore, CA 94550-4921, respectively, are the joint inventors of an invention entitled "TIME-VARYING FIELD EMISSION DEVICE," as described and claimed in the specification for which an application for United States letters patent was filed on March 8, 2013 and assigned Application No. 13/790,613; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), 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, 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

Page 1 of 3

$\frac{3/25/13}{\text{Date}}$	Jesse R. Cheatham, III	
Date	Philip Andrew Eckhoff	
Date	William Gates	
Date	Roderick A. Hyde	
Date	Muriel Y. Ishikawa	

Date March 27, 2013	Jesse R. Cheatham, III
Date	Philip Andrew Eckhoff
Date	William Gates
Date	Roderick A. Hyde
Date	Muriel Y. Ishikawa

Date	Jesse R. Cheatham, III
Date	Philip Andrew Eckhoff
May 13, 2013 Date	William Gates
Date	Roderick A. Hyde
Date	Muriel Y. Ishikawa

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Date	Jesse R. Cheatham, III
Date	Philip Andrew Eckhoff
Date	William Gates
3/21/2013 Date	Roderick A. Hyde
Date	 Muriel Y. Ishikawa

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Date	William Gates
Date	Roderick A. Hyde
March 27, 2013 Date	Muriel Y. Ishikawa

04/08/2013	Ju I The
Date	Jordin T. Kare
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Date	Clarence T. Tegreene
Date	David B. Tuckerman
Date	Charles Whitmer
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Date	Victoria V H Wood

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Date 3/22/13	Jordin T. Kare Vathan Mynnold
Date	Nathan P. Myhrvold
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May 15, 2013 Date	Clarence T. Tegreene
Date	David B. Tuckerman
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Date	Lowell L. Wood, Jr.
Date .	Victoria Y.H. Wood

Date	•	Jordin T. Kare
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Date		Robert C. Petroski
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Date	Lowell L. Wood, Jr.
Date	Victoria Y.H. Wood

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Date	Tony S. Pan
Date	Robert C. Petroski
Date	Clarence T. Tegreene
Date	David B. Tuckerman
Date	Charles Whitmer
Date	Lowell L. Wood, Jr.
March 26, 2013	Victoria V.H. Was
Date	Victoria Y.H. Wood