

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3895107

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRENT BOTTA	05/25/2016
STUART BRAY	12/03/2015
TODMUND COLE	10/09/2015
RECEIVING PARTY DATA	
Name:	X1 DISCOVERY, INC.
Street Address:	130 WEST UNION STREET
City:	PASADENA
State/Country:	CALIFORNIA
Postal Code:	91103
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14838230
CORRESPONDENCE DATA	
Fax Number:	(949)760-9502
<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>	
Phone:	3105513450
Email:	efiling@knobbe.com
Correspondent Name:	KNOBBE, MARTENS, OLSON & BEAR LLP
Address Line 1:	2040 MAIN STREET, 14TH FLOOR
Address Line 4:	IRVINE, CALIFORNIA 92614
ATTORNEY DOCKET NUMBER:	X1DIS.003A
NAME OF SUBMITTER:	DAVID N. WEISS
SIGNATURE:	/David N. Weiss/
DATE SIGNED:	05/31/2016
Total Attachments: 6	
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COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: X1DIS.003A

Page 1 of 6

Title: METHODS AND SYSTEMS FOR SEARCHING AND INDEXING VIRTUAL ENVIRONMENTS

Inventors: Brent Botta, Stuart Bray, Roland Vilett (deceased, legally represented by X1 Discovery, Inc.),
Todmund Cole

Declaration

This Declaration is directed to the application identified above that:

Was filed **August 27, 2015** as U.S. or International Application No. **14/838,230** and incorporating any amendments made thereto prior to the signature date of this Declaration.

As a named inventor, I declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

Assignment from Inventors

WHEREAS, **above-identified inventors** (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental designs, or discoveries, and hereby assign or are under an obligation to assign to the below identified Assignee the above-titled application (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application").

AND WHEREAS, **X1 Discovery, Inc.**, with its principal place of business at 130 West Union Street, Pasadena, CA 91103 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all patent properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). **62/043295**, filed **August 28, 2014** (respectively if plural applications));

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and

all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof.

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Inventors: Brent Botta, Stuart Bray, Roland Vilett (deceased, legally represented by X1 Discovery, Inc.),
Todmund Cole

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned patent properties, and authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

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Title: METHODS AND SYSTEMS FOR SEARCHING AND INDEXING VIRTUAL ENVIRONMENTS

Inventors: Brent Botta, Stuart Bray, Roland Vilett (deceased, legally represented by X1 Discovery, Inc.),
Todmund Cole

Legal Name of inventor: Brent Botta

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 25 day of May,
2016.

Signature: _____

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE
VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE
DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE
TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Los Angeles } ss.

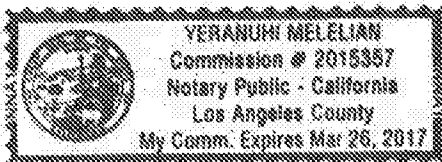
On May 25 2016, before me, Yerannh Melelian, notary public, personally
appeared Brent Botta who proved to me on the basis of satisfactory evidence to be the person(s) whose
name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed
the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Signature



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Title: METHODS AND SYSTEMS FOR SEARCHING AND INDEXING VIRTUAL ENVIRONMENTS

Inventors: Brent Botta, Stuart Bray, Roland Vilett (deceased, legally represented by X1 Discovery, Inc.),
Todmund Cole

Legal Name of inventor: Stuart Bray

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 3rd day of December,
2015.

Signature: _____

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE
VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE
DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE
TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF SAN FRANCISCO

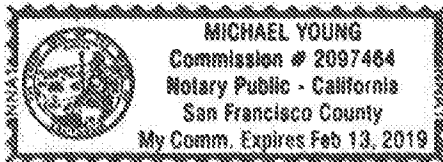
On DEC 3, 2015, before me, MICHAEL YOUNG, notary public, personally
appeared Stuart Bray who proved to me on the basis of satisfactory evidence to be the person(s) whose
name(s) is/are subscribed to the within instrument, and acknowledged to me that he/~~she/they~~ executed
the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]



COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

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Title: METHODS AND SYSTEMS FOR SEARCHING AND INDEXING VIRTUAL ENVIRONMENTS

Inventors: Brent Botta, Stuart Bray, Roland Vilett (deceased, legally represented by X1 Discovery, Inc.),
Todmund Cole

Legal Name of inventor: Roland Vilett (deceased, legally represented by X1 Discovery, Inc.)

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this ____ day of _____,
20_____.

Signature of legal representative of
X1 Discovery, Inc.:

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE
VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE
DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE
TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF _____

} ss.

On _____, before me, _____ notary public, personally
appeared Roland Vilett (deceased, legally represented by X1 Discovery, Inc.) who proved to me on the
basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within
instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

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Title: METHODS AND SYSTEMS FOR SEARCHING AND INDEXING VIRTUAL ENVIRONMENTS

Inventors: Brent Botta, Stuart Bray, Roland Vilett (deceased, legally represented by X1 Discovery, Inc.),
Todmund Cole

Legal Name of Inventor: Todmund Cole

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 9th day of October,
2015.

Signature: [Handwritten Signature]

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE
VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE
DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE
TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Los Angeles } ss.

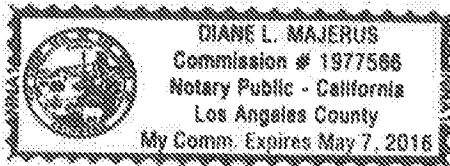
On October 9, 2015 before me, DIANE L MAJERUS, notary public, personally
appeared Todmund Cole who proved to me on the basis of satisfactory evidence to be the person(~~s~~)
whose name(~~s~~) is/~~are~~ subscribed to the within instrument, and acknowledged to me that he/~~she~~/~~they~~
executed the same in his/~~her~~/~~their~~ authorized capacity(~~ies~~), and that by his/~~her~~/~~their~~ signature(~~s~~) on the
instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

[Handwritten Signature]
Notary Signature

[SEAL]



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