

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4245353

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHRIS W. RELLA	04/01/2016
ERIC R. CROSSON	04/01/2016
MICHAEL R. WOELK	04/01/2016
SZE MENG TAN	04/01/2016
YONGGANG HE	04/01/2016
DAVID STEELE	04/01/2016
RECEIVING PARTY DATA	
Name:	PICARRO, INC.
Street Address:	3105 PATRICK HENRY DRIVE
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15088885
CORRESPONDENCE DATA	
Fax Number:	(650)424-0141
<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:	650-331-8414
Email:	bob@lumen.com
Correspondent Name:	ROBERT LODENKAMPER
Address Line 1:	550 S. CALIFORNIA AVE.
Address Line 2:	SUITE 300
Address Line 4:	PALO ALTO, CALIFORNIA 94306
ATTORNEY DOCKET NUMBER:	PCR-156B/CIP2
NAME OF SUBMITTER:	ROBERT LODENKAMPER
SIGNATURE:	/Robert Lodenkamper/
DATE SIGNED:	01/26/2017

Total Attachments: 6

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ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **April 1, 2016**, by and between **Eric R. Crosson**, an individual residing in **Livermore, CA, USA**, (the "Assignor") and **Picarro, Inc.**, an entity whose address is **3105 Patrick Henry Drive, Santa Clara, CA 95054, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/088885** filed **4/1/2016** entitled **Methods for gas leak detection and localization in populated areas using two or more tracer measurements** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

2) Assignor hereby agrees that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).


3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.

4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.

5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **April 1, 2016**.

Signature: 
Assignor: **Eric R. Crosson**

Lumen Ref.: PCR-156B/CIP2
PID: 21315 IID: 897

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **April 1, 2016**, by and between **Yonggang He**, an individual residing in **Union City, CA, USA**, (the "Assignor") and **Picarro, Inc.**, an entity whose address is **3105 Patrick Henry Drive, Santa Clara, CA 95054, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/088885** filed **4/1/2016** entitled **Methods for gas leak detection and localization in populated areas using two or more tracer measurements** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

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5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **April 1, 2016**.

Signature: _____

Assignor: **Yonggang He**

Lumen Ref.: PCR-156B/CIP2
PID: 21315 IID: 4401

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **April 1, 2016**, by and between **Chris W. Rella**, an individual residing in **Sunnyvale, CA, US**, (the "Assignor") and **Picarro, Inc.**, an entity whose address is **3105 Patrick Henry Drive, Santa Clara, CA 95054, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/088885** filed **4/1/2016** entitled **Methods for gas leak detection and localization in populated areas using two or more tracer measurements** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

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6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **April 1, 2016**.

Signature: _____

Assignor: **Chris W. Rella**

Lumen Ref.: PCR-156B/CIP2
PID: 21315 IID: 1838

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **April 1, 2016**, by and between **David Steele**, an individual residing in **San Francisco, CA, USA**, (the "Assignor") and **Picarro, Inc.**, an entity whose address is **3105 Patrick Henry Drive, Santa Clara, CA 95054, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/088885** filed **4/1/2016** entitled **Methods for gas leak detection and localization in populated areas using two or more tracer measurements** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

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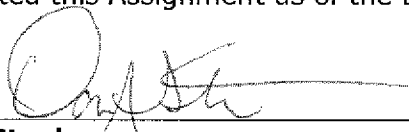
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6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **April 1, 2016**.

Signature: _____

Assignor: **David Steele**



Lumen Ref.: PCR-156B/CIP2
PID: 21315 IID: 5105

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **April 1, 2016**, by and between **Sze Meng Tan**, an individual residing in **Santa Clara, CA, USA**, (the "Assignor") and **Picarro, Inc.**, an entity whose address is **3105 Patrick Henry Drive, Santa Clara, CA 95054, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/088885** filed **4/1/2016** entitled **Methods for gas leak detection and localization in populated areas using two or more tracer measurements** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

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3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.

4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.

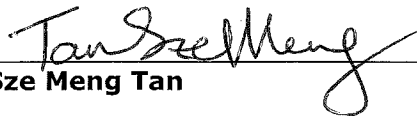
5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **April 1, 2016**.

Signature: _____

Assignor: **Sze Meng Tan**



Lumen Ref.: PCR-156B/CIP2
PID: 21315 IID: 2832

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **April 1, 2016**, by and between **Michael R. Woelk**, an individual residing in **Livermore, CA, USA**, (the "Assignor") and **Picarro, Inc.**, an entity whose address is **3105 Patrick Henry Drive, Santa Clara, CA 95054, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/088885** filed **4/1/2016** entitled **Methods for gas leak detection and localization in populated areas using two or more tracer measurements** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

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6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **April 1, 2016**.

Signature: _____

Assignor: **Michael R. Woelk**

Lumen Ref.: PCR-156B/CIP2
PID: 21315 IID: 4606