04/13/2018 504868826

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| DR SCOTT A DENENBERG | 04/08/2016 |
| DR YANKO K SHEIRETOV | 10/15/2015 |
| MR TODD M DUNFORD | 04/08/2016 |
| DR ANDREW P WASHABAUGH | 12/27/2015 |
| MR DONALD C STRANEY | 04/02/2016 |
| MR BRIAN MANNING | 12/14/2015 |

RECEIVING PARTY DATA

| Name: | JENTEK SENSORS, INC. |
|-----------------|----------------------|
| Street Address: | 121 BARTLETT STREET |
| City: | MARLBOROUGH |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 01752 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15030094 |

CORRESPONDENCE DATA

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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.

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ZACHARY THOMAS Correspondent Name: Address Line 1: 121 BARTLETT STREET

Address Line 4: MARLBOROUGH, MASSACHUSETTS 01752

| ATTORNEY DOCKET NUMBER: | JSI-2086-1US |
|-------------------------|---------------------|
| NAME OF SUBMITTER: | ZACHARY M THOMAS |
| SIGNATURE: | /Zachary M. Thomas/ |
| DATE SIGNED: | 04/13/2018 |

Total Attachments: 8

PATENT REEL: 045538 FRAME: 0435

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PATENT REEL: 045538 FRAME: 0436

Joint

ASSIGNMENT

WHEREAS, we, Scott A. Denenberg, Yanko K. Sheiretov, Neil J. Goldfine, Todd M. Dunford, Andrew P. Washabaugh, Don Straney and Brian Manning, have invented a certain improvement in Method And Apparatus For Measurement Of Material Condition described in an application for Patent,

| the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only); |
|--|
| is about to be filed in the United States Patent Office as a Provisional Application |
| the specification of which is United States Application No. [], filed []; |
| the specification of which is a Patent Cooperation Treaty Application, International Application No. PCT/US2014/061825, filed October 22, 2014, which designates the United States of America; |
| which was patented under United States Patent No. []. |

WHEREAS, JENTEK Sensors, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 110-1 Clematis Avenue, Waltham, Massachusetts 02453 desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

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PATENT REEL: 045538 FRAME: 0437 Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE; its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

| Inventor's Signature: Lot Demby |
|---|
| Scott A. Denenberg |
| State/Commonwealth |
| of Massachis |
| County of Whatesex |
| On thisday of |
| · · · · · · · · · · · · · · · · · · · |
| personally known to me, or |
| proved to me through satisfactory evidence of identification, which was |
| to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. |
| (SEAL) Notary Public Let & C & Q () |
| Zonee C. 50/09 (print name) |
| My Commission expires 3/19/21 |

| Inventor's Signature: // Aculusticolor |
|--|
| State/Commonwealth of Nana Sack Sack Sack Sack Sack Sack Sack Sac |
| County of NYA da la selv |
| On this day of 20 before me, the undersigned notary public, personally appeared Yanko K. Sheiretov, |
| personally known to me, or |
| proved to me through satisfactory evidence of identification, which was |
| to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. |
| (SEAL) Notary Public Real Notary |
| (<u>Xonee C Sovo A (print name</u> |
| My Commission expires <u> </u> |
| Inventor's Signature: Neil J. Goldfine |
| State/Commonwealth of Watto Chursont 5 County of Wild all o So |
| On this 1342 day of OCO 20 2015, before me, the undersigned notary public, personally appeared Neil J. Goldfine, |
| personally known to me, or |
| proved to me through satisfactory evidence of identification, which was |
| to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. |
| (SEAL) Notary Publication Color of Open Col |
| My Commission expires 3/19 Q |

| Inventor's Signature: | |
|--|---|
| State/Commonwealth of Months day of day of public, personally appeared Todd M. Dunfe | Id M. Dunford |
| personally known to me, or | • |
| proved to me through satisfactory e | vidence of identification, which was |
| to be the person whose name was signed or acknowledged that he/she signed the foregot (SEAL) | n the foregoing instrument in my presence, and bing instrument as his/her free act and deed. Notary Public Company (print name) My Commission expires 3/19/21 |
| Inventor's Signature: | |
| | w P. Washabaugh |
| On this day of public, personally appeared Andrew P. Was personally known to me, or proved to me through satisfactory ex | shabaugh, |
| | the foregoing instrument in my presence, and |
| (SEAL) | Notary Public |
| | |

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| Inventor's Signature: | |
|--|--|
| State/Commonwealth of County of | Todd M. Dunford |
| On this day of public, personally appeared Todd M. | |
| personally known to me, or | |
| proved to me through satisfac | ctory evidence of identification, which was |
| to be the person whose name was sig acknowledged that he/she signed the | med on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed. |
| (SEAL) | Notary Public |
| | (print name) My Commission expires// |
| Inventor's Signature: // / | Law P. Wesheloy L. Andrew P. Washabaugh |
| State/Commonwealth of | Andrew P. Washabaugh ** |
| County of | |
| On this day of public, personally appeared Andrew | 20, before me, the undersigned notary P. Washabaugh, |
| personally known to me, or | |
| proved to me through satisfac | ctory evidence of identification, which was |
| to be the person whose name was sig acknowledged that he/she signed the | ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed. |
| (SEAL) | Notary Public |
| | (print name) |
| | My Commission expires// |

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ACKNOWLEDGMENT

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 <u>SAい Die co</u>) |
|---|
| On December 27,2015 before me, B&G. DOURAGHT (insert |
| name and title of the officer) personally appeared |
| ANDREW PATRICK WASHABAUGH, 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. |
| Signature (Seal) |
| |
| B. G. DOURAGHI Comm. #2015158 Notary Public • California Ö San Diego County Comm. Expires Mar 26, 2017 |
| Description of Attached Document Title or Type of Document: HSB2 Docker No: 1884. 2086-001 |
| Document Date: Number of Pages: |
| Capacity(ies) Claimed by Signer(s) Signer's Name: |
| Signer's Name: |
| Corporate Officer — Title(s): |
| Corporate Officer — Title(s): |
| Partner — Limited General Partner — Limited General Individual Attorney in Fact Individual Attorney in Fact Trustee Guardian or Conservator Trustee Guardian or Conservator |
| Other: |
| Other: |

PATENT REEL: 045538 FRAME: 0442

| Inventor's Signature: Dis C. | Arry |
|--|---|
| | Don Straney |
| On this day of how public, personally appeared Don Straney, | 20 10, before me, the undersigned notary |
| personally known to me, or | |
| proved to me through satisfactory e | vidence of identification, which was |
| UABL SSQ 3907 | 230 |
| to be the person whose name was signed or acknowledged that he/she signed the forego | the foregoing instrument in my presence, and ping instrument as his/hoff free act and deed. |
| SEA Wiley and Security and Sec | My Commission expires // / / / / / / / / / / / / / / / / / |
| Inventor's Signature: | |
| State/Commonwealth of County of | ian Manning |
| On this day of public, personally appeared Brian Manning, | , before me, the undersigned notary |
| personally known to me, or | |
| proved to me through satisfactory ev | ridence of identification, which was |
| to be the person whose name was signed on acknowledged that he/she signed the forego | the foregoing instrument in my presence, and ing instrument as his/her free act and deed. |
| (SEAL) | Notary Public |
| 4- | (print name) |
| | My Commission expires// |

| Inventor's Signature:_ | | |
|--|---|---|
| State/Commonwealth of | ~ . | Don Straney |
| On thispublic, personally app | | |
| personally kno | wn to me, or | |
| proved to me t | hrough satisfactory | evidence of identification, which was |
| to be the person whose acknowledged that he/ | name was signed she signed the fore | on the foregoing instrument in my presence, and egoing instrument as his/her free act and deed. |
| (SEAL) | | Notary Public |
| 4. | | (print name) |
| | | My Commission expires/ |
| Inventor's Signature: | Zu | |
| D. 110 33 | | Brian Manning |
| State/Commonwealth of 12350000 County of 11236 | sells lealex | |
| On this | day of <u>QCQ</u> cared Brian Mannir | before me, the undersigned notary ng, |
| personally know | vn to me, or | |
| proved to me th | rough satisfactory | evidence of identification, which was |
| to be the person whose acknowledged that he/s | name was signed on the signed the fores | on the foregoing instrument in my presence, and going instrument as his/her free act and deed. |
| (SEAL) | | Notary Public 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | ć. | My Commission expires 3/19/01 |
| | | |

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