505776656 11/15/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL DORMODY	07/29/2019
BADRINATH NAGARAJAN	07/29/2019
DEEPAK JOSEPH	07/31/2019
GANESH PATTABIRAMAN	09/09/2019
ABIJITH KUMAR	08/12/2019
THOMAS WOLF	07/27/2019
GARY PARSONS	07/25/2019
CHRISTIAN GATES	08/13/2019

RECEIVING PARTY DATA

Name:	NEXTNAV, LLC
Street Address:	484 OAKMEAD PARKWAY
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94085

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16684859

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 8582312473

Email: kyle@ptlawgroup.com
Correspondent Name: KYLE PENDERGRASS

Address Line 1: 1965 CHATSWORTH BOULEVARD SAN DIEGO, CALIFORNIA 92107

ATTORNEY DOCKET NUMBER:	NEXN-054-US2	
NAME OF SUBMITTER:	KYLE PENDERGRASS	
SIGNATURE:	/Kyle Pendergrass/	

PATENT 505776656 REEL: 051023 FRAME: 0168

DATE SIGNED:	11/15/2019	
Total Attachments: 7		
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ASSIGNMENT

I, an undersigned Inventor (the "Assignor"), have made one or more inventions (the "Invention(s)") set forth in the following applications for patent:

United States Patent Application No. 16/684,859 , filed on 11/15/2019 , entitled SYSTEMS AND METHODS FOR CALIBRATING UNSTABLE SENSORS.

WHEREAS, NextNav, LLC, a Delaware Limited Liability Company, having its address at 484 Oakmead Parkway, Sunnyvale, California 94085 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in (a) – (h) below.

WHEREAS, NextNav, LLC, a Delaware Limited Liability Company, having its address at 484 Oakmead Parkway, Sunnyvale, California 94085 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in (a) — (h) below.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor hereby sells, assigns, transfers, and sets over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in and to (a) – (h) below:

- (a) the Invention(s):
- (b) the one or more applications for patent identified above;
- (c) the right to file applications for patent of the United States and other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty (PCT), and further including all rights under the laws of each country;
- (d) any and all applications for patent of the United States and other countries claiming any of the Invention(s);
- (e) any and all applications for patent of the United States and other countries claiming priority to any of the one or more applications for patent identified above, including any and all divisionals, continuations, and continuations-in-part;
- (f) any and all applications for patent of the United States and other countries to which any of the one or more applications for patent identified above claims priority, including provisional applications filed in the United States to which any of the one or more applications for patent identified above claim priority;
- (g) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(f); and
- (h) any and all patents of the United States and other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(f), including any and all reissues and extensions of patents.

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale, assignment, transfer and set over not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of this assignment, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with a prior agreement between the Assignor and the Assignee, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), the one or more applications for patent identified above, any patents that issue from the one or more applications for patent identified above, and any other of items (a) – (h) above, without charge to the Assignor, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests any of Kyle M. Pendergrass and his law firm, to insert the filing date, the application number, the title, the docket number, and any other information corresponding to the invention(s) and applications identified above when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns. The Assignor hereby requests foreign patent offices to issue patents in those countries to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Signature (hand written)	Date: 1/29/19
Signature (hand written):	Date: 101/1
Inventor Name: Michael DORMODY	Address: 6047 Lean Ave., San Jose, CA 95123
Signature (hand written):	Date:
	AN Address: 18925 Mellon Dr., Saratoga, CA 95070
Signature (hand written);	Date:
Inventor Name: Abijith KUMAR	Address: 2350 Villanova Rd., San Jose, CA 95130
Signature (hand written): 4.60	Date: 7(29/19
	Address: #2, 10302 Terry Way, Cupertino, CA 95014
Signature (hand written):	Date:
Inventor Name: Thomas WOLF	
Signature (hand written):	Date:
	Address: 11009 Stanmore Dr., Potomac, MD 20854
Signature (hand written):	Date:
Inventor Name: Christian GATES	Address: 1296 Colvin Forest Drive, Vienna, VA 22182
	Date: 7/31/2016
Inventor Name: Deepak JOSEPH	Address: 11222 Sweetwood Ln., Oakton, VA 22124

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), the one or more applications for patent identified above, any patents that issue from the one or more applications for patent identified above, and any other of items (a) - (h) above, without charge to the Assignor, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

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Signature (hand written):	Date:
Inventor Name: Michael DORMODY	Address: 6047 Lean Ave., San Jose, CA 95123
Signature (hand written):	Date: 9/9/19
Inventor Name: Ganesh PATTABIRAMAN	Address: 18925 Mellon Dr., Saratoga, CA 95070
Signature (hand written):	Date:
Inventor Name: Abijith KUMAR	Address: 2350 Villanova Rd., San Jose, CA 95130
Signature (hand written):	Date:
Inventor Name: Badrinath NAGARAJAN	
Signature (hand written):	Date:
Inventor Name: Thomas WOLF	Address: 748 Cuesta Dr., Mountain View, CA 94040
Signature (hand written):	Date:
Inventor Name: Gary PARSONS	Address: 11009 Stanmore Dr., Potomac, MD 20854
Signature (hand written):	Date:
Inventor Name: Christian GATES	Address: 1296 Colvin Forest Drive, Vienna, VA 22182
Signature (hand written):	Date:
Inventor Name: Deepak JOSEPH	

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Signature (hand written):	Date:
Inventor Name: Michael DORMODY	Address: 6047 Lean Ave., San Jose, CA 95123
Signature (hand written):	Date:
Inventor Name: Ganesh PATTABIRAMAN	
Signature (hand written):	Date: 8/12/2019
Inventor Name: Abijith KUMAR	Address: 2350 Villanova Rd., San Jose, CA 95130
Signature (hand written):	Date:
	Address: #2, 10302 Terry Way, Cupertino, CA 95014
Signature (hand written):	Date:
Inventor Name: Thomas WOLF	Address: 748 Cuesta Dr., Mountain View, CA 94040
Signature (hand written):	Date:
Inventor Name: Gary PARSONS	
Signature (hand written):	Date:
Inventor Name: Christian GATES	Address: 1296 Colvin Forest Drive, Vienna, VA 22182
Signature (hand written):	Date:
Inventor Name: Deepak JOSEPH	Address: 11222 Sweetwood Ln., Oakton, VA 22124

Attorney Docket No. NEXN-054

The Assignor hereby sells, assigns, transfers, and sets over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in and to (a) - (h) above to the extent that the Assignor has not done so already via a prior agreement with the Assignee. Where the Assignor has already, via a prior agreement with the Assignee, sold, assigned, transferred, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in (a) - (h) above, Assignor hereby confirms that prior agreement.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), the one or more applications for patent identified above, any patents that issue from the one or more applications for patent identified above, and any other of items (a) – (h) above, without charge to the Assignor, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests any of Kyle M. Pendergrass and his law firm, to insert the filing date, the application number, the title, the docket number, and any other information corresponding to the invention(s) and applications identified above when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns. The Assignor hereby requests foreign patent offices to issue patents in those countries to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Signature (hand written):	Date:
Inventor Name: Michael DORMODY	Address: 6047 Lean Ave., San Jose, CA 95123
Signature (hand written):	Date:
	Address: 18925 Mellon Dr., Saratoga, CA 95070
Signature (hand written):	Date:
Inventor Name: Abijith KUMAR	
Signature (hand written):	Date:
Inventor Name: Badrinath NAGARAJAN	Address: #2, 10302 Terry Way, Cupertino, CA 95014
Signature (hand written):	Jeff Date: 7/27/19
Inventor Name: Thomas WOLF	Address: 748 Cuesta Dr., Mountain View, CA 94040
Signature (hand written):	Date:
Inventor Name: Gary PARSONS	Address: 11009 Stanmore Dr., Potomac, MD 20854
Signature (hand written):	Date:
Inventor Name: Christian GATES	Address: 1296 Colvin Forest Drive, Vienna, VA 22182
Signature (hand written):	Date:
Inventor Name: Deepak JOSEPH	

Attorney Docket No. NEXN-054

The Audgroup benefity sells, and grow transfers, and selvers over one like Audgroup, in successors, legal representatives, and accepts the Audgroup's entire right, title, and interest in and to (a) – (b) above to the cutom that the Audgroup has not done so already via a prior agreement with the Audgroup. Where the Audgroup has already, via a prior agreement with the Audgroup, vid, augment and entire the audgroup, its authorities began representatives, and audgroup, the Audgroup's entire tight title, and interest in (a) – (b) above. Audgroup health confirms that prior agreement.

The Assignor hereby coverants and agrees to and with the Assignor, in vaccious, logic expensions, and assigns, that the Assignor will upon all opport and deconacts. Date all lawful cubs, and do all acts necessary or required to be done in connection with any and all proceedings for the procuration, maintenance, enforcement and defence of the Invention(s), the one or more applications for passes identified above, any passes that is one from the one or more applications for passes identified above, and any other of terms (s) – (b) above, without charge to the Assignor, but at the cost and expense of the Assignor, its successors, legal representatives, and only in

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Securities (Land written)	Date
Inventor Name: Michael IXWWDY	Address: 6647 Lenn Ave., Sim Jose, CA 93123
Symmetry (hear) written)	Date:
Brooto Vanc Gascol PATTANIKAMAN	Address: 18925 Melion Dr., Samoga, CA 95070
September (News) written)	Dinte
to vision Name. Administration KCMAK	Address: 3390 Villanova Rd., San Jose, CA 99130
Separative (hand written)	Date
Inventor Name: Badrinath NAGARAJAN	Address: #2, 10302 Terry Way, Capertino, CA 95014
Signature (hand worker):	Date
Investor Name: Thomas WWF	Address: 748 Cuesta Dr., Mountain View, CA 94040
Surgery Court waters 1944	<u> Zama </u>
Investor Name Care FARSONS	Address: 15009 Stammore Dr., Potoblac, Mi) 2004
Signature (Asset writer)	
	Address: 1296 Colvin Forcot Drive, Vienna, VA 22182
Signature (hand written):	Owe

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inventor Name: Gary PARSUNS	Address: 11009 Stammore Dr., Potomac, MD 20854
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Inventor Name: Christian GATES	Address: 1296 Colvin Forest Drive, Vienna, VA 22182
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Inventor Name: Deepak JOSEPH	Address: 11222 Sweetwood Ln., Oakton, VA 22124

PATENT REEL: 051023 FRAME: 0176

RECORDED: 11/15/2019