502741988 03/27/2014

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| OSAMU KITAZAWA | 02/21/2014 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14347184 |

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| NAME OF SUBMITTER: JUSTIN AVILES, NEW APPLICATIONS SPEC | |
| SIGNATURE: /Justin Aviles/ | |
| DATE SIGNED: | 03/27/2014 |

Total Attachments: 1

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PATENT 502741988 REEL: 032542 FRAME: 0542

| Assignment | | | |
|--|---|--|--|
| assignor(s), have invented certain impro | AWA of Okazaki-shi, Aichi-ken, Japan hereinafter called evements in Malfunction Detecting Device and Malfunction and executed an application for Letters Patent of the United ry 21, 2014; and | | |
| Whereas, TOYOTA JIDOSH | A KABUSHIKI KAISHA | | |
| of 1, Toyota-cho, T | oyota-shi, Aichi-ken, 471-8571 Japan | | |
| | | | |
| . ************************************* | | | |
| (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor; | | | |
| Now therefore, for valuable cons | sideration, receipt whereof is hereby acknowledged, | | |
| assignee, its successors and assigns, the invention disclosed therein for the Unite under 35 U.S.C. §119, and I/we request issue any Letters Patent granted upon the successors and assigns; and I/we will ex- | (s), hereby sell, assign and transfer to the above named entire right, title and interest in the application and the d States of America, including the right to claim priority the Director of the U.S. Patent and Trademark Office to e invention set forth in the application to the assignee, its ecute without further consideration all papers deemed with the United States application when called upon to do | | |
| Pennsylvania Avenue, NW, Washington | st our attorneys SUGHRUE MION, PLLC of 2100 a, DC 20037-3213 to insert here in parentheses (Application number 9899, filed March 25, 2014) the application on when known. | | |
| Date: February 21, 2014 | Osamu Kitazawa | | |
| Date: | Osamu Kitazawa Osamu KITAZAWA | | |
| s/ | | | |
| Date: | | | |
| Date: | | | |
| s/ | | | |
| Date: | · | | |
| S/ Date: | | | |

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 032542 FRAME: 0543

RECORDED: 03/27/2014