504726530 01/12/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4773254

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| KAYVAN HEDAYAT | 01/13/2015 |
| JOHN HART | 01/12/2015 |
| ERIC MATSON | 01/12/2015 |
| MARK WILSON | 01/12/2015 |
| NORMAN POIRIER | 02/17/2015 |

RECEIVING PARTY DATA

| Name: | STONERIDGE, INC. | |
|-----------------|-------------------------|--|
| Street Address: | 9400 EAST MARKET STREET | |
| City: | WARREN | |
| State/Country: | OHIO | |
| Postal Code: | 44484 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15639166 |

CORRESPONDENCE DATA

Fax Number: (603)668-2970

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: 603-668-6560 **Email:** jhobbs@gtpp.com

Correspondent Name: GROSSMAN, TUCKER, PERREAULT & PFLEGER

Address Line 1: 55 SOUTH COMMERCIAL STREET

Address Line 4: MANCHESTER, NEW HAMPSHIRE 03101

| ATTORNEY DOCKET NUMBER: | SHS148CON | |
|-------------------------|-----------------------|--|
| NAME OF SUBMITTER: | DONALD J. PERREAULT | |
| SIGNATURE: | /DONALD J. PERREAULT/ | |
| DATE SIGNED: | 01/12/2018 | |

Total Attachments: 4

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PATENT REEL: 044605 FRAME: 0199

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> PATENT REEL: 044605 FRAME: 0200

ASSIGNMENT OF THE UNITED STATES PATENT APPLICATION

WHEREAS, I/WE, Kayvan Hedayat; John Hart; Eric Matson; Mark Wilson and Norman Poirier, made certain new and useful inventions and improvements for which I/We filed, or will be filing, an application for Letters Patent of the United States, identified as U.S. patent application serial number 14/539,991 filed on November 12, 2014, which application is entitled:

Soot Sensor System

AND, WHEREAS, I/We hereby authorize and request an attorney associated with Customer Number 32047 to insert on the designated lines above, the filing date and application number of said application when known;

AND, WHEREAS, **Stoneridge**, **Inc.**, a corporation organized and existing under and by virtue of the laws of the State of Ohio, and having an office and place of business at **9400 East Market Street**, **Warren**, **OH 44484**, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I/We have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed under the Patent Cooperation Treaty, in any regional patent offices and in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there

PATENT REEL: 044605 FRAME: 0201 Docket No.: SHS148

Page 2 of 3

from; and I/We do hereby authorize and request the Commissioner of Patents and Trademarks to

issue any and all United States Letter Patent for the aforesaid inventions and improvements to

the said Assignee as the assignee of the entire right, title and interest in and to the same, for the

use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I/We do hereby agree that I/We and my/our

executors and legal representatives will make, execute and deliver any and all other instruments

in writing including any and all further application papers, affidavits, assignments and other

documents, and will communicate to said Assignee, its successors and representatives all facts

known to me/us relating to said improvements and the history thereof and will testify in all legal

proceedings and generally do all things which may be necessary or desirable more effectually to

secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in

and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits,

privileges and advantages hereby sold, assigned and conveyed, or intended so to be;

AND, furthermore, I/We covenant and agree with said Assignee, its successors and

assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and

property herein conveyed has been made to others by me and that full right to convey the same

as herein expressed is possessed by me/us.

AND, as a named inventor, I hereby 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 of a claimed

invention in the application.

I have reviewed and understand the contents of the application, including the

claims, and I am aware of the duty to disclose to the Office all information known

to the person to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby acknowledge that any wilful false statement made in this declaration is

punishable under 18 U.S. C. 1001 by fine or imprisonment of not more than five

(5) years, or both.

PATENT REEL: 044605 FRAME: 0202

| IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day of Hedayat, Kayvan | , 20\$ |
|---|--------------------|
| IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of | _, 20 <u>_1</u> .5 |
| IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of January Matson, Eric | |
| IN TESTIMONY WHEREOF, I have hereunto set my hand this | _, 20 <u>/</u> 5 |
| IN TESTIMONY WHEREOF, I have hereunto set my hand this day of | , 20 |
| JANET M. FRAZIER NOTARY PUBLIC, STATE OF OHIO My Commission Expires July 14, 2015 Area M. I / 13 / 2015 | |

Docket No.: SHS148 Page 3 of 3

| IN TESTIMONY WHEREOF, I have hereunto set my hand | this day of |
|---|--|
| Hedayat, Kayvan | |
| IN TESTIMONY WHEREOF, I have hereunto set my hand | this day of, 20 |
| Hart, John | |
| IN TESTIMONY WHEREOF, I have hereunto set my hand | this day of, 20 |
| Matson, Eric | |
| IN TESTIMONY WHEREOF, I have hereunto set my hand | this, 20 |
| Wilson, Mark | |
| IN TESTIMONY WHEREOF, I have hereunto set my hand | this 17 day of FEBRUARY, 2015 |
| Poirier, Norman | Commonwealth of Massachusette On this |
| | MICHAEL G. FULLER, Notary Public My Commission Expires March 5, 2021 |

PATENT REEL: 044605 FRAME: 0204

RECORDED: 01/12/2018