

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|--|---|---------------|----------------|---------------------|------------|---------------|------------|-----------------|------------|-----------------|------------|-------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Takeshi SHIMA</td> <td>05/14/2012</td> </tr> <tr> <td>Mirai HIGUCHI</td> <td>05/29/2012</td> </tr> <tr> <td>Shoji MURAMATSU</td> <td>06/10/2012</td> </tr> <tr> <td>Tatsuhiko MONJI</td> <td>05/14/2012</td> </tr> <tr> <td>Takuya NAKA</td> <td>05/17/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Takeshi SHIMA | 05/14/2012 | Mirai HIGUCHI | 05/29/2012 | Shoji MURAMATSU | 06/10/2012 | Tatsuhiko MONJI | 05/14/2012 | Takuya NAKA | 05/17/2012 |
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| Takuya NAKA | 05/17/2012 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
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| City: | Hitachinaka-shi, Ibaraki | | | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13519347</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13519347 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 13519347 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 105615.64694US | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Michael H. Jacobs | | | | | | | | | | | | |
| Total Attachments: 1 source=64694US_ASSIGNMENT#page1.tif | | | | | | | | | | | | | |

OP \$40.00 13519347

PATENT

ASSIGNMENT

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar(\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi Automotive Systems, Ltd., a corporation organized under the laws of Japan, located at 2520, Takaba, Hitachinaka-shi, Ibaraki, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Automotive Systems, Ltd., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

ROAD-SHOULDER DETECTING DEVICE AND VEHICLE USING ROAD-SHOULDER DETECTING DEVICE

* PCT International Application Number PCT/JP2010/063483 filed on August 09, 2010

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith,

and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi Automotive Systems, Ltd., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Automotive Systems, Ltd.

Signed on the date(s) indicated aside signatures:

| | INVENTOR(S) (発明者フルネームサイン) | Date Signed (署名日) |
|----|---|---|
| 1) | <u>Takeshi Shima</u> Takeshi SHIMA | <u>5/14/2012</u> |
| 2) | <u>Mirai Higuchi</u> Mirai HIGUCHI | <u>5/29/2012</u> |
| 3) | <u>Shoji Muramatsu</u> Shoji MURAMATSU | <u>6/10/2012</u> |
| 4) | <u>Tatsuhiko Monji</u> Tatsuhiko MONJI | <u>5/14/2012</u> |
| 5) | <u>Tatsuhiko Monji Takuya Naka</u> T.M. 5/14/2012 Takuya NAKA | <u>5/14/2012</u> T.M. 5/14/2012 <u>5/17/2012</u> 5/17/2012 |
| 6) | <u>Takuya Naka</u> T.N. 5/17/2012 | <u>5/17/2012</u> T.N. 5/17/2012 |
| 7) | _____ | _____ |
| 8) | _____ | _____ |

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