

PATENT ASSIGNMENT

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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 WATANABE</td> <td>07/11/2013</td> </tr> <tr> <td>Junya ISHII</td> <td>07/11/2013</td> </tr> <tr> <td>Hirofumi SAITOU</td> <td>07/11/2013</td> </tr> <tr> <td>Hiroyasu KITAJIMA</td> <td>07/11/2013</td> </tr> <tr> <td>Tatsuki KOJIMA</td> <td>07/11/2013</td> </tr> <tr> <td>Yoshitsugu KAWASHIMA</td> <td>07/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Takeshi WATANABE	07/11/2013	Junya ISHII	07/11/2013	Hirofumi SAITOU	07/11/2013	Hiroyasu KITAJIMA	07/11/2013	Tatsuki KOJIMA	07/11/2013	Yoshitsugu KAWASHIMA	07/11/2013
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<table border="1"> <tr> <td>Name:</td> <td>Renesas Electronics Corporation</td> </tr> <tr> <td>Street Address:</td> <td>1753, Shimonumabe, Nakahara-ku,</td> </tr> <tr> <td>City:</td> <td>Kawasaki-shi, Kanagawa</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>211-8668</td> </tr> </table>		Name:	Renesas Electronics Corporation	Street Address:	1753, Shimonumabe, Nakahara-ku,	City:	Kawasaki-shi, Kanagawa	State/Country:	JAPAN	Postal Code:	211-8668				
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PROPERTY NUMBERS Total: 1															
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CORRESPONDENCE DATA															
<p>Fax Number: 4048887490 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703.394.2216 Email: CBlackburn@WCSR.COM Correspondent Name: WOMBLE CARLYLE SANDRIDGE & RICE, LLP Address Line 1: ATTN: IP DOCKETING Address Line 2: P.O. BOX 7037 Address Line 4: ATLANTA, GEORGIA 30357-0037</p>															
ATTORNEY DOCKET NUMBER:	R150 1420US.1														

NAME OF SUBMITTER:	Nanda K. Alapati
Signature:	/nanda k alapati/
Date:	07/19/2013
Total Attachments: 5 source=R150_1420US_1_Assignment_R116655US01#page1.tif source=R150_1420US_1_Assignment_R116655US01#page2.tif source=R150_1420US_1_Assignment_R116655US01#page3.tif source=R150_1420US_1_Assignment_R116655US01#page4.tif source=R150_1420US_1_Assignment_R116655US01#page5.tif	

ASSIGNMENT

WHEREAS, as a below named inventor, I, ASSIGNOR, am the original, first and sole (if only one inventor is named) or joint (if more than one inventor is named) inventor, of the invention entitled:

**SEMICONDUCTOR DEVICE HAVING CRACK-RESISTING RING STRUCTURE AND
MANUFACTURING METHOD THEREOF**

which is:

- ☒ is attached hereto;
- ☒ is identified as WCSR Docket No. R150 1420US.1;
- ☐ was filed on _____ as United States Application Serial No. _____.
- ☐ was filed on _____ as PCT International Application No. _____ and designated the United States.

WHEREAS, **Renesas Electronics Corporation**, having a business address at 1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa, Japan 211-8668, ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and said application;

NOW, THEREFORE, in consideration of good and valuable consideration, I, ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, for the territory of the United States of America, and not elsewhere, the entire right, title and interest in, to and under said United States application and said invention as fully set forth and described therein, and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues, reexamination certificates and extensions thereof; together with the right to file said application in the United States and the right to claim for the same the priority rights derived from any earlier filed application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property or any other international agreement, as may be applicable;

AND I, ASSIGNOR, HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States to issue said application to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I, ASSIGNOR, HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I, ASSIGNOR, HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting

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said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and applications and reexamination papers, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in the United States.

IN WITNESS WHEREOF, the undersigned inventor has affixed his signature.

1. Takeshi Watanabe July 11, 2013
Name: Takeshi WATANABE
Residence Address: Kanagawa, Japan
Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
Kawasaki-shi, Kanagawa, Japan 211-8668
Citizenship: Japanese
Date

Keiichiro Moroyama July 11, 2013
Witness Date

Witness Date

2. Junya Ishii July 11, 2013
Name: Junya ISHII
Residence Address: Kanagawa, Japan
Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
Kawasaki-shi, Kanagawa, Japan 211-8668
Citizenship: Japanese
Date

Keiichiro Moroyama July 11, 2013
Witness Date

Witness Date

3. Hirofumi Saitou July 11, 2013
Name: Hirofumi SAITOU Date
Residence Address: Kanagawa, Japan
Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
Kawasaki-shi, Kanagawa, Japan 211-8668
Citizenship: Japanese

Keiichiro Motoyama July 11-2013
Witness Date

Witness Date

4. Hiroyasu Kitajima July 11, 2013
Name: Hiroyasu KITAJIMA Date
Residence Address: Kanagawa, Japan
Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
Kawasaki-shi, Kanagawa, Japan 211-8668
Citizenship: Japanese

Kenichiro Motoyama July 11.2013
Witness Date

Witness Date

5. Tatsuki Kojima July 11, 2013
Name: Tatsuki KOJIMA
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Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
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Citizenship: Japanese

Eumihito Nozima
Witness

July 11, 2013
Date

Witness

Date

6. _____
Name: Yoshitsugu KAWASHIMA
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Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
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Name: Tatsuki KOJIMA
Residence Address: Kanagawa, Japan
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6.

Yoshitsugu Kawashima
Name: Yoshitsugu KAWASHIMA
Residence Address: Kanagawa, Japan
Post Office Address: c/o Renesas Electronics Corporation, 1753, Shimonumabe, Nakahara-ku,
Kawasaki-shi, Kanagawa, Japan 211-8668
Citizenship: Japanese

July 11, 2013
Date

Koichi Svetsugu
Witness

July 11, 2013
Date

Witness

Date