

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>Tetsuji Imamura</td> <td>03/30/2012</td> </tr> <tr> <td>Daisuke Kuwahara</td> <td>03/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tetsuji Imamura	03/30/2012	Daisuke Kuwahara	03/30/2012		
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RECEIVING PARTY DATA									
<table border="1"> <tr> <td>Name:</td> <td>HOKURIKU ELECTRIC INDUSTRY CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>3158, Shimo-okubo</td> </tr> <tr> <td>City:</td> <td>Toyama-shi, Toyama</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	HOKURIKU ELECTRIC INDUSTRY CO., LTD.	Street Address:	3158, Shimo-okubo	City:	Toyama-shi, Toyama	State/Country:	JAPAN
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PROPERTY NUMBERS Total: 1									
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CORRESPONDENCE DATA									
<p>Fax Number: (216)566-9711 Phone: 2165669700 Email: almas@rankinhill.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Rankin Hill and Clark LLP Address Line 1: 38210 Glenn Avenue Address Line 4: Willoughby, OHIO 44094</p>									
ATTORNEY DOCKET NUMBER:	NIS-35723								
NAME OF SUBMITTER:	David E. Spaw								
Total Attachments: 2 source=35723#page1.tif source=35723#page2.tif									

CH \$40.00 13500236

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

GAS SENSOR ELEMENT AND MANUFACTURING METHOD OF THE SAME

that are the subject of an application for a U.S. Patent, (Application No. 13/500236, filed 04/04/2012), which application is further identified as Rankin, Hill & Clark LLP Docket No. NIS-35723.

WHEREAS, HOKURIKU ELECTRIC INDUSTRY CO., LTD., a corporation of Japan, and having a place of business at 3158, Shimo-okubo, Toyama-shi, Toyama, Japan, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Rankin, Hill & Clark LLP the power to insert on this assignment any identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name (sole or joint): Tetsuji IMAMURA

Signature: Tetsuji Imamura

Today's Date : 30 March 2012

Witness: Koichi Kawaguchi

Witness: Satoshi Imai

(2) Inventor Name (joint): Daisuke KUWAHARA

Signature: Daisuke Kuwahara

Today's Date : 30 March 2012

Witness: Koichi Kawaguchi

Witness: Satoshi Imai

(3) Inventor Name (joint): _____

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

(4) Inventor Name (joint): _____

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____