

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>HIROSI NOGUCHI</td> <td>06/05/2012</td> </tr> <tr> <td>JUNICHI TANIUCHI</td> <td>06/05/2012</td> </tr> <tr> <td>HITOSHI KUBO</td> <td>06/04/2012</td> </tr> <tr> <td>YASUNORI IWAI</td> <td>05/08/2012</td> </tr> <tr> <td>KATSUMI SATO</td> <td>05/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	HIROSI NOGUCHI	06/05/2012	JUNICHI TANIUCHI	06/05/2012	HITOSHI KUBO	06/04/2012	YASUNORI IWAI	05/08/2012	KATSUMI SATO	05/08/2012
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RECEIVING PARTY DATA													
Name:	JAPAN ATOMIC ENERGY AGENCY												
Street Address:	4-49, Muramatsu, Tokai-mura, Naka-gun,												
City:	Ibaraki												
State/Country:	JAPAN												
Postal Code:	319-1184												
Name:	TANAKA KIKINZOKU KOGYO K.K.												
Street Address:	7-3, Marunouchi 2-chome, Chiyoda-ku,												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	100-6422												
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>13518976</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13518976								
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CORRESPONDENCE DATA													
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OP \$40.00 13518976

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ATTORNEY DOCKET NUMBER:	TAN-187
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NAME OF SUBMITTER:	RICHARD S. ROBERTS
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Total Attachments: 2 source=TAN-187_ASSIGNMENT1#page1.tif source=TAN-187_ASSIGNMENT1#page2.tif
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ASSIGNMENT

WHEREAS the UNDERSIGNED, **NOGUCHI, Hiroshi, TANIUCHI, Junichi and KUBO, Hitoshi**, citizens of Japan, whose addresses are at c/o **TANAKA KIKINZOKU KOGYO K.K. Tsukuba Technical Center, 22 Wadai, Tsukuba-shi, Ibaraki 300-4247 JAPAN**; **IWAI, Yasunori and SATO, Katsumi**, citizen of Japan, whose address is at c/o **JAPAN ATOMIC ENERGY AGENCY, Tokai Research and Development Center, Nuclear Science Research Institute, 2-4, Shirane Shirakata, Tokai-mura, Naka-gun, Ibaraki 319-1195 JAPAN**; have invented certain new and useful improvements (INVENTION) disclosed, shown, and described in an APPLICATION for Letters Patent of the United States entitled:

**HYDROGEN COMBUSTION CATALYST AND METHOD FOR PRODUCING THEREOF,
AND METHOD FOR COMBUSTING HYDROGEN**

Docket No. _____, said APPLICATION which was filed as PCT International Application serial number **PCT/JP2011/050150** on January 7, 2011; and

WHEREAS, **JAPAN ATOMIC ENERGY AGENCY.**, a corporation of Japan, having an office at **4-49, Muramatsu, Tokai-mura, Naka-gun, Ibaraki 319-1184 JAPAN**; and **TANAKA KIKINZOKU KOGYO K.K.**, a corporation of Japan, having an office at **7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-6422, Japan** (ASSIGNEES) are desirous of jointly acquiring the entire undivided right, title and interest in and to the INVENTION, in this and any foreign country, and in and to any Letters Patent of the United States or any foreign country which may be granted embracing the INVENTION.

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and for other good and valuable consideration, receipt of which is hereby acknowledged, the UNDERSIGNED by these presents, sells, assigns, and transfers unto ASSIGNEES, their legal representatives, successors, and assigns, the entire undivided right, title and interest for the United States and all foreign countries, in and to the INVENTION, and in and to the said APPLICATION, and in and to any applications for Letters Patent which may have been or may be filed in any foreign country on said INVENTION, and in and to any and all priority rights generated by the filing of said APPLICATION in the United States or any foreign country, which may be granted covering the INVENTION, including any continuations, continuations-in-part, substitutions, divisions, reissues or renewals thereof, said Letters Patent whether of this country or any foreign country to be held and enjoyed by ASSIGNEES for their interests, for their own use and behoof, and for their legal representatives, successors, and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by UNDERSIGNED had this assignment and sale not been made.

I covenant and agree that I will, at any time upon the request and at the expense of said ASSIGNEES, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEES, to enable and assist said ASSIGNEES to (a) obtain Letters Patent, both domestic and foreign, on said invention, (b) establish, maintain and secure title in said ASSIGNEES, their successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record, and (c) defend, establish or

otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this assignment.

I hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent based on said application and all said divisions, continuations, continuations-in-part, reissues, renewals and extensions to said ASSIGNEES, their successors and assigns.

I authorize and empower the said ASSIGNEES, their successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for them, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full and legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said ASSIGNEES or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

IN WITNESS WHEREOF this assignment has been executed by UNDERSIGNED on the date opposite their name.

DATE	<u>5 Jun 2012</u>	<u>NOGUCHI, Hitoshi</u> (LS)	Witness: <u>Takeyuki Sagae</u> TAKEYUKI SAGAE
DATE	<u>5 Jun 2012</u>	<u>Taniuchi, Junichi</u> (LS)	Witness: <u>Takeyuki Sagae</u> TAKEYUKI SAGAE
DATE	<u>JUN 4, 2012</u>	<u>Kubo Hitoshi</u> (LS)	Witness: <u>Takeyuki Sagae</u> TAKEYUKI SAGAE
DATE	<u>May 8, 2012</u>	<u>IWAI Yasunori</u> (LS)	Witness: <u>NAKAMURA Hirofumi</u> NAKAMURA HIROFUMI
DATE	<u>May 8, 2012</u>	<u>SATO Katsumi</u> (LS)	Witness: <u>NAKAMURA Hirofumi</u> NAKAMURA HIROFUMI
DATE	_____	_____ (LS)	Witness: _____