

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>Kenji NAKAO</td><td>10/27/2011</td></tr><tr><td>Kimihito SUZUKI</td><td>10/27/2011</td></tr><tr><td>Kenichiro FUJIMOTO</td><td>10/27/2011</td></tr><tr><td>Hatsuo TAIRA</td><td>10/27/2011</td></tr></tbody></table>	Name	Execution Date	Kenji NAKAO	10/27/2011	Kimihito SUZUKI	10/27/2011	Kenichiro FUJIMOTO	10/27/2011	Hatsuo TAIRA	10/27/2011	
Name	Execution Date										
Kenji NAKAO	10/27/2011										
Kimihito SUZUKI	10/27/2011										
Kenichiro FUJIMOTO	10/27/2011										
Hatsuo TAIRA	10/27/2011										
RECEIVING PARTY DATA											
Name:	NIPPON STEEL CORPORATION										
Street Address:	6-1, Marunouchi 2-chome, Chiyoda-ku										
City:	Tokyo										
State/Country:	JAPAN										
Postal Code:	100-8071										
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>13318719</td></tr></tbody></table>	Property Type	Number	Application Number:	13318719							
Property Type	Number										
Application Number:	13318719										
CORRESPONDENCE DATA											
Fax Number:	(703)205-8050										
Phone:	703-205-8000										
Email:	mailroom@bskb.com, morgans@bskb.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Birch, Stewart, Kolasch & Birch, LLP.										
Address Line 1:	P. O. Box 747										
Address Line 4:	Falls Church, VIRGINIA 22040-0747										
ATTORNEY DOCKET NUMBER:	1609-0373PUS1										
NAME OF SUBMITTER:	Marc S. Weiner										
Total Attachments: 2 source=2011-11-04 Assign 1609-0373PUS1#page1.tif source=2011-11-04 Assign 1609-0373PUS1#page2.tif											

CH \$40.00 13318719

501714674

PATENT
REEL: 027180 FRAME: 0136

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 13/318,719 Filed November 03, 2011Insert Name(s)
of Inventor(s) ***** (Given Name FAMILY NAME (ALL CAPS)) *****

WHEREAS, Kenji NAKAO, Kimihito SUZUKI, Kenichiro FUJIMOTO, Hatsuo TAIRA (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title
of Invention **HYBRID ADSORBENT, METHOD OF CAPTURING CARBON DIOXIDE IN GAS AND APPARATUS FOR CAPTURING CARBON DIOXIDE IN GAS**
for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)Insert Date
of Signing of
Application On October 27, 2011; andInsert Name
of Assignee **WHEREAS, NIPPON STEEL CORPORATION**Insert Address
of Assignee of 6-1, Marunouchi 2-chome,, Chiyoda-ku, Tokyo 100-8071, Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX
IF APPROPRIATE ☒ **in any foreign countries.**

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

KPD91173 US01
OSP-38933
US (A1) 72

1609-0373PUS1

Attorney Docket No. _____

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>October 27, 2011</u>	Name of Inventor <u>Kenji Nakao</u> (signature) Kenji NAKAO
Date <u>October 27, 2011</u>	Name of Inventor <u>Kimihito Suzuki</u> (signature) Kimihito SUZUKI
Date <u>October 27, 2011</u>	Name of Inventor <u>Kenichiro Fujimoto</u> (signature) Kenichiro FUJIMOTO
Date <u>October 27, 2011</u>	Name of Inventor <u>Hatsuo Taira</u> (signature) Hatsuo TAIRA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)