

## 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>Keiji Itabashi</td> <td>01/29/2013</td> </tr> <tr> <td>Tatsuya Okubo</td> <td>01/29/2013</td> </tr> <tr> <td>Kenta Iyoki</td> <td>01/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	Keiji Itabashi	01/29/2013	Tatsuya Okubo	01/29/2013	Kenta Iyoki	01/29/2013
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RECEIVING PARTY DATA									
<table border="1"> <tr> <td>Name:</td> <td>Nippon Chemical Industrial Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>11-1, Kameido 9-chome, Koto-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	Nippon Chemical Industrial Co., Ltd.	Street Address:	11-1, Kameido 9-chome, Koto-ku	City:	Tokyo	State/Country:	JAPAN
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<table border="1"> <tr> <td>Name:</td> <td>The University of Tokyo</td> </tr> <tr> <td>Street Address:</td> <td>3-1, Hongo 7-chome, Bunkyo-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	The University of Tokyo	Street Address:	3-1, Hongo 7-chome, Bunkyo-ku	City:	Tokyo	State/Country:	JAPAN
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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>13509677</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13509677				
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CORRESPONDENCE DATA									
<p>Fax Number: 6172274420  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2024787375        Email: aangelov@edwardswildman.com        Correspondent Name: EDWARDS WILDMAN PALMER LLP        Address Line 1: P.O Box 55874        Address Line 4: Boston, MASSACHUSETTS 02205</p>									
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CH \$40.00 13509677

NAME OF SUBMITTER:

James E. Armstrong, IV

Total Attachments: 3

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## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Keiji Itabashi; Tatsuya Okubo; and Kenta Iyoki (hereinafter referred to as Assignors), residing at c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo, JAPAN; c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo, JAPAN; and c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo, JAPAN, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in METHOD FOR PRODUCING MTW-TYPE ZEOLITE, set forth in a Patent application for Letters Patent of the United States, already filed on May 14, 2012 as U.S. Application No. 13/509,677; and

**WHEREAS**, Nippon Chemical Industrial Co., Ltd. and The University of Tokyo, a company and a university, respectively organized under and pursuant to the laws of Japan and Japan, respectively having their principal places of business at 11-1, Kameido 9-chome, Koto-ku, Tokyo, JAPAN; and 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo, JAPAN, respectively (hereinafter referred to as Assignees), are desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignees, their successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignees, for their own use and benefit and the use and benefit of their successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignees, their successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignees under law or that have already been transferred to Assignees, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignees, their successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignees, their successors, legal representatives and assigns, whenever counsel of Assignees, or counsel of their successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignees, as Assignees of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignees, their successors, legal representatives and assigns.

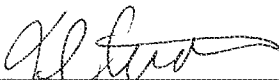
**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS WILDMAN PALMER LLP

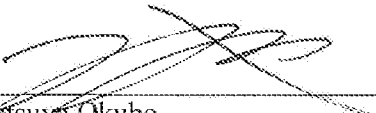
All practitioners at Customer Number 21874

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignees at the time the invention was made.

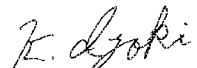
Date: 4/29/2013

Signature:   
Keiji Itabashi

Date: 4/29/2013

Signature:   
Tatsuya Okubo

Date: 4/29/2013

Signature:   
Kenta Iyoki