

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>JIRI SMID</td> <td>02/17/2009</td> </tr> <tr> <td>YAU-PIN CHYOU</td> <td>02/17/2009</td> </tr> <tr> <td>SHU-SAN SHU-SAN</td> <td>02/17/2009</td> </tr> <tr> <td>CHIN-CHING TZENG</td> <td>02/17/2009</td> </tr> <tr> <td>CHIA-REN HSU</td> <td>02/17/2009</td> </tr> </tbody> </table>		Name	Execution Date	JIRI SMID	02/17/2009	YAU-PIN CHYOU	02/17/2009	SHU-SAN SHU-SAN	02/17/2009	CHIN-CHING TZENG	02/17/2009	CHIA-REN HSU	02/17/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Institute of Nuclear Energy Research Atomic Energy Council, Executive Yuan</td> </tr> <tr> <td>Street Address:</td> <td>No. 1000, Wenhua Road, Jiaan Village, Longtan Township</td> </tr> <tr> <td>City:</td> <td>Taoyuan County</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> </table>		Name:	Institute of Nuclear Energy Research Atomic Energy Council, Executive Yuan	Street Address:	No. 1000, Wenhua Road, Jiaan Village, Longtan Township	City:	Taoyuan County	State/Country:	TAIWAN				
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CORRESPONDENCE DATA													
Fax Number: (703)880-7487 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 703-684-4411 Email: FAXVA@WPAT.COM Correspondent Name: WPAT, PC Address Line 1: 1940 Duke Street Suite 200 Address Line 4: Alexandria, VIRGINIA 22314													
ATTORNEY DOCKET NUMBER:	18906-414												
NAME OF SUBMITTER:	Justin King												
Total Attachments: 2 source=assignment#page1.tif													

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PATENT
REEL: 022941 FRAME: 0609

ASSIGNMENT

WHEREAS, I(we), **JIRI SMID ; CHYOU, YAU-PIN ; HSIAU, SHU-SAN ; TZENG, CHIN-CHING ; HSU, CHIA-REN** whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

TWO-STAGE GRANULAR MOVING-BED APPARATUS

(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked:

☐ United States Design Patent

was

☐ executed on:

☐ filed on:

Serial No.:

☐ established by PCT International Patent Application No.:

filed:

designating the United States of America

☐ issued on _____ as U.S. Patent No.:

WHEREAS, **INSTITUTE OF NUCLEAR ENERGY RESEARCH ATOMIC ENERGY COUNCIL, EXECUTIVE YUAN** whose post office address is **NO. 1000, WENHUA ROAD, JIAAN VILLAGE, LONGTAN TOWNSHIP, TAoyUAN COUNTY, TAIWAN, R.O.C.** hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

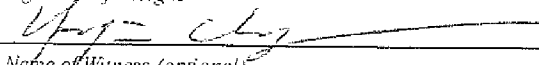
ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

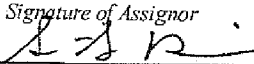
ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

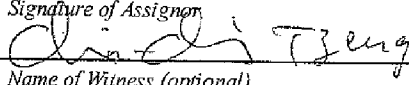
ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

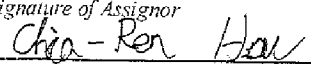
ASSIGNOR authorizes any member of the firm of WPAT, PC (Customer No. 60951) to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.

Assignor Name JIRI SMID	Address Tylovo namesti 6, 12000 Prague 6, Czech Republic
Signature of Assignor <i>Jiri Smid</i>	Date of Signature <i>2009.02.17</i>
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Signature of Witness (optional)	Signature of Witness (Optional)

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Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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Signature of Assignor 	Date of Signature 2009.02.17
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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Signature of Assignor 	Date of Signature 2009.02.17
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HSU, CHIA-REN	Address No. 8, Lane 342, Sihwei Road, Dounan Township, Yunlin County 630, Taiwan, R.O.C.
Signature of Assignor 	Date of Signature 2009.02.17
Name of Witness (optional)	Name of Witness (optional)
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PATENT

RECORDED: 07/10/2009

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