502203176 01/22/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ravi CHANDRAN	01/15/2013
Daniel Michael LEO	01/15/2013
Shawn Robert FREITAS	01/15/2013

RECEIVING PARTY DATA

Name:	THERMOCHEM RECOVERY INTERNATIONAL, INC.
Street Address:	3700 KOPPERS STREET
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21227

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US2013022520

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	T127 1070WO
NAME OF SUBMITTER:	Nanda K. Alapati

Total Attachments: 3

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PATENT REEL: 029671 FRAME: 0240 .0.00 USZ013

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ASSIGNMENT OF INTERNATIONAL APPLICATION

WHEREAS, as a below named inventor, I, ASSIGNOR, am the original, first and sole (if only one inventor is named) or joint (if more than one inventor is named) inventor, of the invention entitled:

Integrated Two-Stage Thermochemical Heat Pipe Reactor Having a Partitioned Vessel

\boxtimes	identified as	WCSR	Docket No.	T127	1070WO

was filed on January 22, 2013 as PCT International Application No. PCT/US2013/022520

WHEREAS, <u>ThermoChem Recovery, International</u>, having a business address at 3700 Koppers Street, Baltimore, MD 21227, United States of America, ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and said International Application.

NOW, THEREFORE, in consideration of good and valuable consideration the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, his successors, legal representatives and assigns, the entire right, title and interest in, to and under:

(a) Said invention;

which is:

- (b) Said International Application;
- (c) All National Phase applications based on the International Application, together with the right to file such applications and the right to claim priority rights for same which rights arise under the Laws of any PCT member state, the International Convention for the Protection of Industrial Property, or any other international agreement in which any such application is filed, as may be applicable;
- (d) All applications for industrial property protection, including without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention;
- (e) All forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention; and

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(f) All divisionals, continuations, reissues, renewals and extensions of any of the foregoing.

AND ASSIGNOR HEREBY authorizes and requests any Official of any PCT member state, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue any such patent or other evidence or form of industrial property protection to the said ASSIGNEE, his successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it has full right to convey the entire interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNOR HEREBY further covenants and agrees that it will communicate to the said ASSIGNEE, his successors, legal representatives and assigns, any facts known to it respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, his successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

AND ASSIGNOR HEREBY grant(s) an authorized representative of Assignee the power to insert in this Assignment the application number and filing date and further identification that may be necessary or desirable to comply with the rules for recordation of this Assignment.

IN WITNESS WHEREOF, the undersigned inventor has affixed his signature.

7- 11	1/15/2013
Name: Ravi CHANDRAN	Date
Residence Address: Ellicott City, MD 210 Post Office Address: 3915 Paul Mill Road, Citizenship: USA	
Daniel M. Les Witness	1 15 2013 Date
Witness	Date 15/2013

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Name: Daniel Michael LEO Residence Address: Baltimore, MD Post Office Address: 1014 N Calvert St, #3, Baltimore, MD 21202 Citizenship: USA Witness Witness 3. Name: Shawn Robert FREITAS Residence Address: Corvallis, OR Post Office Address: 2942 NW 13th Pl, Corvallis, OR 97330 Citizenship: USA Witness