



12-18-2009

DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION
PATENT



103584032

To the Director of the U.S. Patent and Trademark Office.

Address(es) below.

1. Name of conveying party(ies)

Heat Transfer International, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) November 20, 2009

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Heat Transfer International, LLC

Internal Address: _____

Street Address: 4720 44th Street SE

City: Kentwood

State: MI

Country: USA

Zip: 49512

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

11/983,517 11/985,385 11/899,346 11/397,488 12/215,148
12/215,161 12/215,147

☐ This document is being filed together with a new application.

B. Patent No.(s)

7,294,314 7,241,322 7,240,724
6,695,522

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Robert L. McKellar

Internal Address: _____

Street Address: 784 S. Poseyville Rd.

City: Midland

State: MI Zip: 48642

Phone Number: 989-631-4551

Fax Number: 989-631-4584

Email Address: rlmckellar@msh-iplaw.com

6. Total number of applications and patents involved: 11

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 440.00

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 13-2492

Authorized User Name Robert L. McKellar

9. Signature:

Robert L. McKellar
Signature

Robert L. McKellar

Name of Person Signing

12/17/2009 DRYNE No. 103584032 11983517

01 FC:8021 440.00 DA
Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT ASSIGNMENT

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), and for other good and valuable consideration, the receipt and sufficiency of which is acknowledged, ASSIGNOR, Heat Transfer International, Inc., having a place of business at 6871 Dutton Industrial Drive, Dutton, Michigan, 49316, sells, assigns, and transfers to ASSIGNEE, Heat Transfer International, LLC, a corporation in the state of Michigan, having a place of business at 4720 44th Street SE, Kentwood, MI 49512, the entire right, title, and interest in the United States and in all foreign countries in and to the following patents and non-provisional and provisional patent applications, and the inventions disclosed and claimed therein, along with all patents or other intellectual property rights issuing therefrom (collectively, the "Patents"):

ISSUED PATENTS

<u>Country</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
USA	7,294,314	11-13-2007	HEAT EXCHANGERS WITH NOVEL BALL JOINTS AND ASSEMBLIES AND PROCESSES USING SUCH HEAT EXCHANGERS
USA	7,241,322	07-10-2007	PYROLIZING GASIFICATION SYSTEM AND METHOD OF USE
USA	7,240,724	07-10-2007	MONOLITHIC TUBE SHEET AND METHOD OF MANUFACTURE
USA	6,695,522	02-24-2004	LOW TO MEDIUM PRESSURE HIGH TEMPERATURE ALL-CERAMIC AIR TO AIR INDIRECT HEAT EXCHANGERS WITH NOVEL BALL JOINTS AND ASSEMBLIES

NON-PROVISIONAL PATENT APPLICATIONS

<u>Country</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>
USA	11/983,517	11-10-2007	COWLING FOR CONNECTING A HOT GAS SOURCE TO A STIRLING ENGINE OR A TURBINE
USA	11/985,385	11-15-2007	ALL-CERAMIC HEAT EXCHANGERS, SYSTEMS IN WHICH THEY ARE USED AND PROCESSES FOR THE USE OF SUCH SYSTEMS

NON-PROVISIONAL PATENT APPLICATIONS

<u>Country</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>
USA	11/899,346	09-05-2007	HEAT EXCHANGERS WITH NOVEL BALL JOINTS AND ASSEMBLIES AND PROCESSES USING SUCH HEAT EXCHANGERS
USA	11/397,488	04-04-2006	PYROLIZING GASIFICATION SYSTEM AND METHOD OF USE
USA	12/215,148	06-25-2008	ROTARY STARVED AIR COMBUSTER
USA	12/215,161	06-25-2008	ROLLER HEARTH CALCINING FURNACE AND METHOD OF USE
USA	12/215,147	06-25-2008	GASIFIER AND GASIFIER SYSTEM FOR PYROLIZING ORGANIC MATERIALS

ASSIGNOR also sells, assigns, and transfers to ASSIGNEE the entire right, title, and interest in and to the Patents in all countries foreign to the United States, including all rights under all international conventions. ASSIGNOR further authorizes ASSIGNEE to apply for Letters Patents and other intellectual property rights in all countries in the name of the inventor(s) who have previously assigned their rights to the ASSIGNOR, and to claim priority of the filing date of the patents.

ASSIGNOR further sells, assigns, and transfers to ASSIGNEE the entire right, title, and interest in and to all claims for damages by reason of past infringement of said patents with the right to sue for and collect same and in and to all legal equivalents of said Patents in foreign countries and any reissue or reexamination thereof.

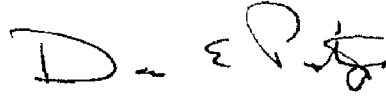
ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this assignment.

The Commissioner of Patents and Trademarks of the United States is authorized and requested to grant patents issuing from the assigned patent application or directed to the assigned inventions to ASSIGNEE. ASSIGNOR also authorizes and requests the equivalent authorities in foreign countries to do likewise.

ASSIGNOR further covenants that ASSIGNEE will, upon ASSIGNEE's request, be provided promptly with all pertinent facts and documents relating to said Patents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding related thereto and will promptly execute and

deliver to ASSIGNEE, or its legal representatives, any and all papers, instruments, and affidavits required to apply for, obtain, maintain, issue, and enforce said Patents, and said equivalents thereof, which may be necessary or desirable to carry out the purposes hereof, or to effect, confirm, or attest to ASSIGNEE's rights hereunder.

IN WITNESS WHEREOF, ASSIGNOR has executed this Assignment as of the date indicated below.



Dave Prouty, President
Heat Transfer International, Inc.

Date: November 20, 2009