

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MEMBRANE REACTOR TECHNOLOGIES LTD.	12/02/2011
RECEIVING PARTY DATA	
Name:	NORAM ENGINEERING & CONSTRUCTORS LTD.
Street Address:	#1800 - 200 Granville Street
City:	Vancouver
State/Country:	CANADA
Postal Code:	V6C 1S4
PROPERTY NUMBERS Total: 4	
Property Type	Number
Patent Number:	5326550
Patent Number:	6331283
Patent Number:	7141231
Patent Number:	7353982
CORRESPONDENCE DATA	
Fax Number:	(604)681-4081
Phone:	604-669-3432
Email:	GNMdocket@patentable.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:	Oyen Wiggs Green & Mutala LLP
Address Line 1:	480 - The Station, 601 W. Cordova St.
Address Line 4:	Vancouver, CANADA V6B 1G1
ATTORNEY DOCKET NUMBER:	N154 9070/GNM
NAME OF SUBMITTER:	Gavin N. Manning
Total Attachments: 3 source=Assignment from Membrane Reactor Technologies Ltd. to NORAM Engineering & Constructors Ltd#page1.tif source=Assignment from Membrane Reactor Technologies Ltd. to NORAM Engineering & Constructors Ltd#page2.tif source=Assignment from Membrane Reactor Technologies Ltd. to NORAM Engineering & Constructors Ltd#page3.tif	

**OP \$160.00 5326550**

**ASSIGNMENT OF INVENTIONS AND RELATED PATENT RIGHTS**

WHEREAS:

**Membrane Reactor Technologies Ltd.**  
**Granville Square**  
**1800 - 200 Granville Street**  
**Vancouver, British Columbia, V6C 1S4**  
**Canada**

(the "Assignor"), whose full post office address is set out above, is the owner of inventions or improvements (the "Inventions") described and/or claimed in the patents listed in the attached Schedule "A" (the "Patents");

AND WHEREAS, NORAM Engineering & Constructors Ltd. (the "Assignee"), whose full post office address is #1800 - 200 Granville Street, Vancouver, British Columbia, V6C 1S4, Canada, wishes to own the entire worldwide right, title, and interest in and to: the Inventions, the Patent(s), and all patents which may be granted on or as a result thereof in all countries;

In consideration of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignor, does hereby, as of December 7<sup>th</sup> 2011 (the Effective Date) sell, assign, transfer, and set over to the Assignee the entire worldwide right, title, and interest in and to:

- the Inventions;
- the Patent(s);
- all continuations, divisions, renewals of, or substitutes for the Patent(s);
- the right to file counterparts to the Patent(s) in all countries and regions;
- the right to claim priority from the Patent(s) in all countries and regions;
- each and every additional application that claims any part of the Inventions;
- each and every additional application that is in any way based on or claims priority from or corresponds to the Patent(s);
- all patents which may be granted on or as a result thereof; and
- any reissue or reissues of such patents;

the same to be held and enjoyed by the Assignee, its successors, assigns, nominees, or legal representatives, to the full end of the term or terms for which such patents respectively may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this Assignment, sale and transfer not been made.

The Assignor hereby agrees that at the request of the Assignee, it shall:

- promptly execute any further proper documents that may be required or expedient to give effect to this Assignment in any country or region; and,
- exercise any rights it has in relation to the inventors of the Inventions to secure their cooperation in executing any proper documents that the Assignee may reasonably request for the purpose of enforcing patent protection for the Inventions in any countries or regions and/or giving effect to this Assignment.

The Assignor hereby covenants it:

- has full right to convey the entire interest herein assigned;
- has not encumbered the rights and properties transferred by this Assignment in any manner; and,
- has not executed and will not execute any agreement that transfers any rights in the Inventions and/or the Patent(s) to anyone other than the Assignee, or is otherwise in conflict herewith.

The Assignor hereby irrevocably designates and appoints the Assignee and its duly authorized officers and agents, and their successors, as its agents and attorneys-in-fact, to act on the Assignor(s)'s behalf and instead of the Assignor(s), to execute any further proper documents that may be required or expedient to give effect to this Assignment in any country or region and to do all other proper lawfully permitted acts to further the assignment and maintenance of patents for the Inventions with the same legal force and effect as if executed by the Assignor. This power of attorney shall be deemed coupled with an interest and is irrevocable.

EXECUTED at Vancouver, B.C. Canada this 2<sup>nd</sup> day of December, 2011.

**MEMBRANE REACTOR TECHNOLOGIES LTD.**

By: Tony Boyd  
Name: Tony Boyd  
Title: President  
Date: December 2<sup>nd</sup> 2011

NOTARIAL CERTIFICATE

On this 2<sup>nd</sup> day of December, 2011, before me, personally appeared Tony Boyd, known to me to be the individual who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.

  
Notary Public

**GAVIN N. MANNING**  
Barrister & Solicitor  
488 - 601 West Cordova St.  
VANCOUVER, B.C. V6B 1R1  
Tel: (604) 669-2432 Fax: (604) 681-0031

**SCHEDULE "A"**

US Patent No. 5326550	FLUIDIZED BED REACTION SYSTEM FOR STEAM/HYDROCARBON GAS REFORMING TO PRODUCE HYDROGEN
CA Patent No. 2081170	FLUIDIZED BED REACTION SYSTEM FOR STEAM/HYDROCARBON GAS REFORMING TO PRODUCE HYDROGEN
US Patent No. 6331283	LOW-TEMPERATURE AUTOTHERMAL STEAM REFORMATION OF METHANE IN A FLUIDIZED BED
US Patent No. 7141231	INTERNALLY CIRCULATING FLUIDIZED BED MEMBRANE REACTOR SYSTEM
US Patent No. 7353982	DIFFUSION BONDING FOR METALLIC MEMBRANE JOINING WITH METALLIC MODULE
CA Patent No. 2547011	DIFFUSION BONDING FOR METALLIC MEMBRANE JOINING WITH METALLIC MODULE