# 502980175 09/17/2014

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3026775

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CANGHAI MA	08/14/2014
WILLIAM J. KOROS	08/19/2014

## **RECEIVING PARTY DATA**

Name:	GEORGIA TECH RESEARCH CORPORATION
Street Address:	505 TENTH STREET NW
City:	ATLANTA
State/Country:	GEORGIA
Postal Code:	30332-0415

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14323443

#### **CORRESPONDENCE DATA**

**Fax Number:** (703)684-2501

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 612.332.5300

**Email:** lkenney@merchantgould.com

Correspondent Name: MERCHANT & GOULD.

Address Line 1: P.O. BOX 2903

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	70205.0456USU1
NAME OF SUBMITTER:	MELISSA M. HAYWORTH
SIGNATURE:	/Melissa M. Hayworth/
DATE SIGNED:	09/17/2014

## **Total Attachments: 4**

source=0456USU1\_Assignment#page1.tif source=0456USU1\_Assignment#page2.tif source=0456USU1\_Assignment#page3.tif source=0456USU1\_Assignment#page4.tif

PATENT 502980175 REEL: 033759 FRAME: 0897

Attorney Docket No.: 70205.0456USU1

#### ASSIGNMENT

WHEREAS, I / We,

Canghai MA of Newark, Delaware William J. KOROS of Atlanta, Georgia

have invented new and useful improvements in

## "COMPOSITE HOLLOW FIBER MEMBRANES USEFUL FOR CO2 REMOVAL FROM NATURAL GAS"

set forth in an application	for Letters Pater	it of the United	States bearing	Serial No.	14/323,443
and filed on July 3, 2014	I, and				

WHEREAS, Georgia Tech Research Corporation, a Georgia Corporation, a business duly chartered under and pursuant to the laws of *Georgia* and doing business at the Georgia Institute of Technology, 505 Tenth Street, NW, Atlanta, GA 30332-0415 USA, is desirous of acquiring the entire right, title and interest in and to said invention, said application, and in and to the Letters Patent, Utility Models, and Inventors' Certificates to be granted and issued thereof in the United States of America and in any and all countries foreign thereto:

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, I / We, hereby sell, assign, transfer and set over unto said Georgia Tech Research Corporation its successors and assigns, the entire right, title and interest in and to said invention, said application, including all priority rights associated with said application under provisions of international conventions, treaties, or otherwise, and all divisions, continuations, reexaminations, and reissues thereof, and in and to all Letters Patent, Utility Models, and Inventors' Certificates to be granted and issued therefore and all reexamination certificates, reissues and extensions thereof, not only for, to and in the United States of America, but for, to and in all other countries. The aforesaid assignment includes the right in and to all income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent, Utility Models, and Inventors' Certificates which may be granted in the United States of America and in any and all countries foreign thereto, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale and assignment had not been made;

and I / We hereby authorize and request the Commissioner for Patents to issue said Letters Patent in accordance with this Assignment;

and I / We hereby covenant that we have full right to convey the entire interest herein assigned, and I / We have not executed, and will not execute, any agreement in conflict herewith and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

Title of the Invention: COMPOSITE HOLLOW FIBER MEMBRANES USEFUL FOR CO₂ REMOVAL FROM

NATURAL GAS

Attorney Docket No.: 70205.0456USU1

and I / We hereby further covenant and agree that we will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to us respecting said inventions and discoveries; and furthermore, upon request, without additional compensation but at no expense to me / us, testify in any interference or legal proceedings involving said inventions, and sign any applications for reissue, division, continuation, continuation-in-part, renewal, substitute or extension thereof

Inventor Signature:	Ong Len	Date:	8/14/2014
Inventor Name:	Canhai MÃ		•
Witness Signature:	<u> </u>	Date:	8/14/2014
Witness Name:	Tong Li		
Inventor Signature:		Date:	
Inventor Name:	William J. KOROS		
Witness Signature:		Date:	
Wilness Name:			

In witness whereof, I / We have signed my / our name(s) on the date set forth below.

Attorney Docket No.: 70205.0456USU1

#### ASSIGNMENT

WHEREAS, I / We,

Canghai MA of Newark, Delaware William J. KOROS of Atlanta, Georgia

have invented new and useful improvements in

# "COMPOSITE HOLLOW FIBER MEMBRANES USEFUL FOR CO2 REMOVAL FROM NATURAL GAS"

set forth in an application for Letters Patent of the United States bearing Serial No. 14/323,443 and filed on July 3, 2014, and

WHEREAS, Georgia Tech Research Corporation, a Georgia Corporation, a business duly chartered under and pursuant to the laws of *Georgia* and doing business at the Georgia Institute of Technology, 505 Tenth Street, NW, Atlanta, GA 30332-0415 USA, is desirous of acquiring the entire right, title and interest in and to said invention, said application, and in and to the Letters Patent, Utility Models, and Inventors' Certificates to be granted and issued thereof in the United States of America and in any and all countries foreign thereto:

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged. I / We, hereby sell, assign, transfer and set over unto said Georgia Tech Research Corporation its successors and assigns, the entire right, title and interest in and to said invention, said application, including all priority rights associated with said application under provisions of international conventions, treaties, or otherwise, and all divisions, continuations, reexaminations, and reissues thereof, and in and to all Letters Patent, Utility Models, and Inventors' Certificates to be granted and issued therefore and all reexamination certificates, reissues and extensions thereof, not only for, to and in the United States of America, but for, to and in all other countries. The aforesaid assignment includes the right in and to all income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent, Utility Models, and Inventors' Certificates which may be granted in the United States of America and in any and all countries foreign thereto, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale and assignment had not been made;

and I / We hereby authorize and request the Commissioner for Patents to issue said Letters Patent in accordance with this Assignment;

and I / We hereby covenant that we have full right to convey the entire interest herein assigned, and I / We have not executed, and will not execute, any agreement in conflict herewith and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

Title of the Invention: COMPOSITE HOLLOW FIBER MEMBRANES USEFUL FOR CO₂ REMOVAL FROM

**NATURAL GAS** 

Attorney Docket No.: 70205.0456USU1

and I / We hereby further covenant and agree that we will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to us respecting said inventions and discoveries; and furthermore, upon request, without additional compensation but at no expense to me / us, testify in any interference or legal proceedings involving said inventions, and sign any applications for reissue, division, continuation, continuation-in-part, renewal, substitute or extension thereof.

In witness whereof, I / We have signed my / our name(s) on the date set forth below.

Inventor Signature: Inventor Name:	Canhai MA	Date:	
Witness Signature:		Date:	
Witness Name:			
Inventor Signature:		Date:	Au , 19, 2014
Inventor Name:	William J. KOROS		
Witness Signature:	Millell Martin	Date:	aug wod 19,2014
Witness Name:	Muchelle Martin		, v , , ,