505715181 10/09/2019

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YU-HAN CHU	12/02/2016
WILLIAM J. KOROS	12/02/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16096928

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ATTORNEY DOCKET NUMBER:	DOW 78286 PA
NAME OF SUBMITTER:	CHRISTI PROVINI
SIGNATURE:	/Christi Provini/
DATE SIGNED:	10/09/2019

Total Attachments: 1

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PATENT 505715181 REEL: 050667 FRAME: 0550

This Assignment 116 is in the FNGLISR language and has the same meaning in other languages with the same 110 number and RDate

FORM 110 (R 5/97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: IMPROVED TRANSITION METAL CONTAINING CARBON MOLECULAR SIEVE MEMBRANES AND METHOD TO MAKE THEM

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Georgia Tech Research Corporation

505 Tenth Street NW Atlanta, Georgia 30318 United States of America

an entity organized and existing under the laws of the state of Georgia (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
62/329,245	April 29, 2016	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the applications, and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Atlanta, Georgia USA	At: Atlanta, Georgia USA
this 2nd day of December, 20 16	this 2 no day of December, 2016
Effective as of April 29, 2016	Effective as of April 29, 2016
\mathcal{U}_{-1}	
Signature: Ju Gan Chu	Signature:
Full Name: Yu-Han Chu	Full Name: William J. Koros
Mailing Address: 950 West Peachtree Street NW, Unit 1711	Mailing Address: 2939 Ridge Valley Road NW
Atlanta, Georgia 30309	Atlanta, Georgia 30327
United States of America	United States of America
At:	At:
this day of , 20	this day of , 20
, ,	
Signature:	Signature:
Full Name:	Full Name:
Mailing Address:	Mailing Address:
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At:	At: this day of .20
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Signature:	Signature:
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