

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4660183

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LOON-SENG TAN	10/25/2012
TIMOTHY J. WHITE	10/25/2012
DAVID WANG	04/27/2012
KYUNG MIN LEE	04/27/2012
UES	05/01/2012
AZIMUTH CORP.	01/07/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Government of the United States as Represented by the Secretary of the Air Force
<b>Street Address:</b>	2240 B. Street
<b>Internal Address:</b>	Building 11, Area B
<b>City:</b>	Wright-Patterson AFB
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	45433-7109
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14723807
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(937)255-3733
<i>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.</i>	
<b>Email:</b>	pamela.kuns@us.af.mil
<b>Correspondent Name:</b>	PAMELA KUNS
<b>Address Line 1:</b>	2240 B. STREET
<b>Address Line 2:</b>	BUILDING 11, AREA B
<b>Address Line 4:</b>	WRIGHT-PATTERSON AFB, OHIO 45433-7109
<b>ATTORNEY DOCKET NUMBER:</b>	AFD 1223CON
<b>NAME OF SUBMITTER:</b>	CHASTITY D. S. WHITAKER, PH.D.
<b>SIGNATURE:</b>	/ Chastity DS Whitaker /
<b>DATE SIGNED:</b>	10/26/2017

**Total Attachments: 5**

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DECLARATION / ASSIGNMENT

WHEREAS, I, Loon-Seng Tan, while employed by the Government of the United States, jointly made an invention with David Huabin Wang, Kyung Min Lee, and Timothy J. White described in invention disclosure AFD 1223 entitled "PHOTOMECHANICALLY ACTIVE COPOLYIMIDES DERIVED FROM AN AZOBENZENEDIAMINE, A RIGID DIANHYDRIDE, AND A FLEXIBLE DIANHYDRIDE", to be filed as an application for Letters Patent of the United States (Application serial number 14/723,807, filed 28 May 2015), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application number, filed) the filing date and application number of said application when known;

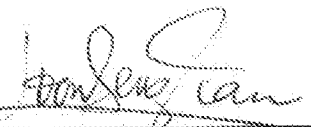
WHEREAS, The above-identified application for Letters Patent was made or authorized to be made by me;

WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;

WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both;

WHEREAS, the conditions under which said invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, **Loon-Seng Tan**, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I do hereby also grant to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries foreign to the United States in which the United States of America may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me subject to a nonexclusive, irrevocable, royalty-free license to the United States of America in any patent which may issue on said invention in any foreign country, including the power to issue sublicenses for use on behalf of the United States of America and/or in furtherance of the foreign policies of the United States of America; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

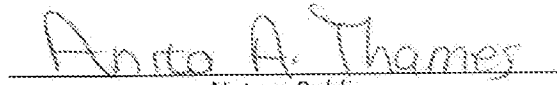
  
Loon-Seng Tan

SUBSCRIBED AND ACKNOWLEDGED before me by Loon-Seng Tan this 25<sup>th</sup> day of October 2012, at the city of Dartan in the County of Montgomery and State of Ohio

ANITA A. THAMES  
NOTARY PUBLIC  
STATE OF OHIO  
Comm. Expires

August 6, 2016  
Recomm. Expires

Montgomery County

  
Notary Public

PATENT

REEL: 043961 FRAME: 0500

DECLARATION / ASSIGNMENT

WHEREAS, I, Timothy J. White, while employed by the Government of the United States, jointly made an invention with Loon-Seng Tan, David Huabin Wang, and Kyung Ming Lee described in invention disclosure AFD 1223 entitled "PHOTOMECHANICALLY ACTIVE COPOLYIMIDES DERIVED FROM AN AZOBENZENEDIAMINE, A RIGID DIANHYDRIDE, AND A FLEXIBLE DIANHYDRIDE", to be filed as an application for Letters Patent of the United States (Application serial number 14/723,807, filed 28 May 2015), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application number, filed) the filing date and application number of said application when known;

WHEREAS, The above-identified application for Letters Patent was made or authorized to be made by me;

WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;

WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both;

WHEREAS, the conditions under which said invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, Timothy J. White, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I do hereby also grant to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries foreign to the United States in which the United States of America may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me subject to a nonexclusive, irrevocable, royalty-free license to the United States of America in any patent which may issue on said invention in any foreign country, including the power to issue sublicenses for use on behalf of the United States of America and/or in furtherance of the foreign policies of the United States of America; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.



Timothy J. White

SUBSCRIBED AND ACKNOWLEDGED before me by Timothy J. White this 25<sup>th</sup> day of October 2012, at the city of Dayton in the County of Montgomery and State of Ohio

ANITA A. THAMES  
NOTARY PUBLIC  
STATE OF OHIO  
Comm. Expires

August 6, 2016

Montgomery County

  
Notary Public

PATENT

REEL: 043961 FRAME: 0501

## ASSIGNMENT

Application Title: Photomechanically Active Copolyimides Derived From Pyromellitic Dianhydride, a Flexible Dianhydrid, and 4,4 Diaminoazobenzene

Inventor(s): David Wang, Kyung Min Lee

Serial No. / Filing Date: 14/723,807 / 28 May 2015

Contractor: UES, Azimuth Corp

Contract Number: FA8650-09-D-5037 and FA8650-09-D-5434

Contractor's Invention No.: \_\_\_\_\_

Air Force Invention No.: AFD 1223

The undersigned Inventor(s) in recognition of their obligation as employee(s) of the Contractor to assign inventions to the Contractor, and pursuant to the obligations of the Contractor to the Government of the United States under the above contract, hereby assign to the United States of America, as represented by the Secretary of the Air Force, their entire right, title, and interest throughout the world in and to each invention disclosed and claimed in the above U.S. patent application, made jointly with Loon-Seng Tan and Timothy White, employee of the U.S. Government, and any substitution, division, or continuation of such patent application, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract.

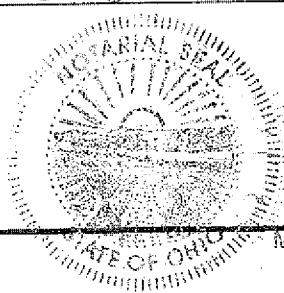
The Inventor(s) agree to assist the Contractor and the Government, upon request, by furnishing any available information and documents, performing all acts, and doing all things which may be reasonably necessary to prepare, file and prosecute such applications and make this assignment effective.

The Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the United States of America as represented by the Secretary of the Air Force their entire right, title, and interest throughout the world in and to such inventions, and further agrees to furnish to the Government, upon request, any available information and documents necessary for the preparation, filing, and prosecution of such applications, for patent.

Inventor

David Wang  
David Wang

SUBSCRIBED AND ACKNOWLEDGED before me this 27 day of APRIL 2012, at the city of Dayton in the County of Montgomery and State of Ohio



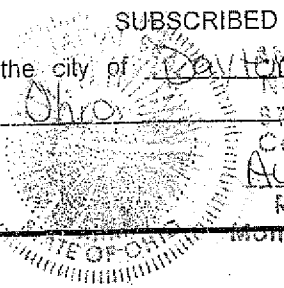
ANITA A. THAMES  
NOTARY PUBLIC  
STATE OF OHIO  
Comm. Expires  
August 6, 2016  
Recorded in

Anita A. Thames  
Signature - Notary Public

Inventor

Kyung Min Lee  
Kyung Min Lee

SUBSCRIBED AND ACKNOWLEDGED before me this 27 day of APRIL 2012, at the city of Dayton in the County of Montgomery and State of Ohio



ANITA A. THAMES  
NOTARY PUBLIC  
STATE OF OHIO  
Comm. Expires  
August 6, 2016  
Recorded in

Anita A. Thames  
Signature - Notary Public

PATENT

REEL: 043961 FRAME: 0502

FOR THE CONTRACTOR

Contractor: UES

By: *Rick Wood*  
(Signature of officer or agent)

Date: 01 May 2012

Printed Name: Rick Wood

Title: Director Contracts

Business Address: 4401 Dayton-Xenia Rd  
Dayton OH 45432

*Tammy Robinson*



**TAMMY ROBINSON**  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES JANUARY 7, 2013

FOR THE CONTRACTOR

Contractor: Azimuth Corporation

By: Valerie K Rossi  
(Signature of officer or agent)

Date: 1/7/13

Printed Name: VALERIE K. ROSSI

Title: PRESIDENT

Business Address: 4134 Linden Ave, Ste 300  
Dayton OH 45432



BRIAN PARKS  
Notary Public, State of Ohio  
My Commission Expires April 2, 2014  
*[Signature]*  
7 January 2013