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08-16-2005



1. Name of conveying party(les)  Loon-Seng Tan Jong-Beom Baek  Loon-Seng Tan Jong-Beom Baek  Additional name(s) of conveying party(les) attached? □ Yes ☒ No  3. Nature of conveyance/Execution Date(s): Execution Date(s)  Merger □ Assignment □ Merger □ Security Agreement □ Change of Name □ Joint Research Name □ Merger □ State: Ohio  Country: U.S.A. Zip: #8433-7109 Additional name(s) & address(es) attached? □ Yes ☒ No  Additional name(s) & address(es) attached? □ Yes ☒ No  5. Name and address to whom correspondence concerning document should be mailed:  Name: Fredric □ Sinder Internal Address: AFMCLO/JAZ □ Bidg 11, Room 100  Street Address: 2240 B Street □ Authorized to be charged by credit card □ Authorized to be charged by credit card □ Authorized to be charged by credit card □ Authorized to be charged to deposit account □ Enclosed □ None required (government interest not affecting title)  8. Payment Information a. Credit card Last 4 Numbers □ Expiration Date: □ Fredric Last 4 Numbers □ Expiration Date: □ Dafe  9. Signature: Signature  Signature  Dafe  Dafe			II 18818			
1. Name of conveying party(ies)   2. Name and address of receiving party(ies)	To the Director	of the U.S. Patent an 1030627	798hed documents or the new address(es) below			
Loon-Serg Tan Jong-Beom Baek    Name: The United States of America as represented the Secretary of the Air Force Internal Address: AFMCLO/JAZ   Bildg 11, Room 100	1. Name of cor					
Additional name(s) of conveying party(ies) attached?	Loon-Seng Tan		Name: The United States of America as represented by the Secretary of the Air Force			
Street Address: 2240 B Street   Street Address: 2240 B Stree			Internal Address: AFMCLO/JAZ			
Steed Hodges:   2240 B Street   Street Address:   2240 B Street   Steed Hodges:   2240 B Str			Bldg 11, Room 100			
State: Ohio			D ?			
State: Ohio	☐ Assignment	☐ Merger	City: Wright-Patterson Air Force Base			
Government Interest Assignment   Executive Order 9424, Confirmatory License   Additional name(s) & address(es) attached? □ Yes ☒ No	_		State: Ohio			
Executive Order 9424, Confirmatory License Other	_	•				
Additional name(s) & address(es) attached?			Country: U.S.A. Zip: #5433-7109			
A. Application or patent number(s):  A. Patent Application No.(s)  11/193,990  Additional numbers attached?		5. 4.2., Communatory License	Additional name(s) & address(es) attached? Tyes X No			
A. Patent Application No.(s)  11/193,990  Additional numbers attached?	-	or natent number(e).	document is being filed together with a new and location			
Name: Fredric L. Sinder         Internal Address:       AFMCLO/JAZ       Authorized to be charged by credit card         Bldg 11, Room 100       Authorized to be charged to deposit account         Street Address:       2240 B Street       Enclosed         None required (government interest not affecting title)         8. Payment Information       a. Credit card Last 4 Numbers         Expiration Date:       Expiration Date:         b. Deposit Account Number       AF01-0465         Authorized User Name       Fredric L. Sinder         9. Signature:       Signature		11/193,990				
Internal Address: AFMCLO/JAZ  Bldg 11, Room 100  Street Address: 2240 B Street  City: Wright-Patterson AFB State: Ohio Zip: 45433-7109 Phone Number: (937) 255-2838 Fax Number: (937) 255-3733 Email Address: fredric.sinder@wpafb.af.mil  Authorized to be charged by credit card  Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title)  8. Payment Information  a. Credit card Last 4 Numbers  Expiration Date:  b. Deposit Account Number AF01-0465  Authorized User Name Fredric L. Sinder  9. Signature:  Signature  Signature		Additional numbers a	6. Total number of applications and patents			
Bldg 11, Room 100  Street Address: 2240 B Street  City: Wright-Patterson AFB State: Ohio Zip: 45433-7109 Phone Number: (937) 255-2838 Fax Number: (937) 255-3733 Email Address: fredric.sinder@wpafb.af.mil  Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title)  8. Payment Information a. Credit card Last 4 Numbers Expiration Date:  b. Deposit Account Number AF01-0465 Authorized User Name Fredric L. Sinder  9. Signature:  Signature  Signature  Date		Additional numbers a	6. Total number of applications and patents involved: 1			
Street Address:  2240 B Street    Description	concerning doc	Additional numbers address to whom correspondence ument should be mailed:	6. Total number of applications and patents involved: 1			
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State: Ohio Zip: 45433-7109  Phone Number: (937) 255-2838  Fax Number: (937) 255-3733  Email Address: fredric.sinder@wpafb.af.mil  9. Signature:  State: Ohio Zip: 45433-7109  a. Credit card Last 4 Numbers  Expiration Date:  b. Deposit Account Number AF01-0465  Authorized User Name Fredric L. Sinder  O Aug 05  Signature  Date	Name: Fredric L Internal Address:	Additional numbers and ddress to whom correspondence ument should be mailed:  Sinder  AFMCLO/JAZ  Bldg 11, Room 100	6. Total number of applications and patents involved:1  7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  ☐ Authorized to be charged by credit card  ☐ Authorized to be charged to deposit account			
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Fax Number: (937) 255-3733  Email Address: fredric.sinder@wpafb.af.mil  9. Signature:  Signature  Date  Deposit Account Number AF01-0465  Fredric L. Sinder  O And 0 5	Name: Fredric L Internal Address:  Street Address:  City: Wright-P	Additional numbers address to whom correspondence ument should be mailed:  Sinder  AFMCLO/JAZ  Bldg 11, Room 100  2240 B Street	6. Total number of applications and patents involved:  7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  Authorized to be charged by credit card  Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title)  8. Payment Information			
Email Address: fredric.sinder@wpafb.af.mil  9. Signature:  Signature  Signature  Authorized User Name  Fredric L. Sinder  O Aug 05	Name: Fredric L Internal Address:  Street Address:  City: Wright-P State: Ohio	Additional numbers address to whom correspondence ument should be mailed:  Sinder  AFMCLO/JAZ  Bldg 11, Room 100  2240 B Street  atterson AFB  Zip: 45433-7109	6. Total number of applications and patents involved:  7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  Authorized to be charged by credit card  Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title)  8. Payment Information  a. Credit card Last 4 Numbers			
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Total number of pages including cover sheet, attachments, and documents:  Name of Person Signing	Name: Fredric L Internal Address:  Street Address:  City: Wright-P State: Ohio Phone Number: Fax Number: Email Address:	Additional numbers address to whom correspondence ument should be mailed:  Sinder  AFMCLO/JAZ  Bldg 11, Room 100  2240 B Street  Atterson AFB  Zip: 45433-7109  (937) 255-2838  (937) 255-3733  fredric.sinder@wpafb.af.mil	6. Total number of applications and patents involved:  7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  Authorized to be charged by credit card  Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title)  8. Payment Information  a. Credit card Last 4 Numbers  Expiration Date:  b. Deposit Account Number AF01-0465			

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

5/N: 11/193,990 Filed: 28 Jul 05

## **ASSIGNMENT**

WHEREAS I, Loon-Seng Tan, while employed by the Government of the United States, made jointly				
with Jong-Beom Baek an invention entitled CARBOXYLIC ACID-TERMINATED HYPERBRANCHED				
POLY(BENZOXAZOLE) AND THE STAR BLOCK COPOLYMERS THEREFROM, described in an application for				
Letters Patent of the United States executed by me on the 9th day of June 2005;				
WHEREAS, the conditions under which the joint invention was made are such as to entitle the				
Government under paragraph 1(a) of Executive Order 10096, to my 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 joint 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 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		-
SIGNED and acknowledged before me this $\frac{9}{2000}$ Wright-Patterson Air Force Base, County of $1000000000000000000000000000000000000$	day of	Ture d State of Ohio.	, 2005,	at
	10	+ - 1	/ .	/

(Seal)

BART S. HERSKO - Altorney at Law Notary Public, State of Ohio My Commission Has No Expiration Date Section 147.03

Notary Public

S/N: 11/193,990 Filed: 28 Jul 05

	ASSIGNMENT
CAI	RBOXYLIC-ACID-TERMINATED HYPERBRANCHED POLY(BENZOXAZOLE) AND THE
Application Title:	STAR BLOCK COPOLYMERS THEREFROM
Inventor(s):	Jong-Beom Baek
Date Inventor(s) Executed D	Declaration: June 10, 2005
Contractor:	UDRI
Contract Number:	F33615-00-C-5008
Contractor's Invention No.:	
Air Force Invention No.:	AFD 738
to the Contractor, and purs above contract, hereby ass entire right, title, and interes application, made jointly wi	entor(s) in recognition of their obligation as employee(s) of the Contractor to assign inventions suant to the obligations of the Contractor to the Government of the United States under the ign to the United States of America, as represented by the Secretary of the Air Force, their throughout the world in and to each invention disclosed and claimed in the above U.S. patent th Loon-Seng Tan, an employee of the U.S. Government, and any substitution, division, or application, subject to the reservation to the Contractor of any license to which the Contractor pove contract.
mation and documents, per	to assist the Contractor and the Government, upon request, by furnishing any available infor- forming all acts, and doing all things which may be reasonably necessary to prepare, file and and make this assignment effective.
contract, relinquishes and a entire right, title, and inter	n and agrees to this assignment and, except for the reservation of any license under the above assigns to the United States of America as represented by the Secretary of the Air Force their rest throughout the world in and to such inventions, and further agrees to furnish to the any available information and documents necessary for the preparation, filing, and prosecution ent.
	Bert Janlen JONG-BEOM BAEK
Cheongiu Lau	wledged before me this 10th day of June, 2005, at D. Firm Co. LTD,  Bookmoon-Ro, Sangdang-Gu, Cheongju,  South KOREA
(SEE	2/4)

FOR THE CONTRACTOR	
Contractor:	UDRI
	. 1 1 -
By:	し   ハク の5 (Signature of officer or agent)
	(Signature of officer or agent)
Date:	Cond I how
Printed Name:	
Title:	Vice President for Research
Business Address:	300 College Park Drive Dayton, Ohio 45469-0101
•	
. Daniel I Common DhD ex a common	Comphany
I, Daniel J. Curran Pricertify that I am the	Secretary of the corporation named as
Contractor herein; that <u>Gordon A. Sargent</u> v	who signed this assignment on behalf of the Contractor was
then <u>Vice President for Research</u> of said or	orporation; that said assignment was duly signed for and on
behalf of said corporation by authority of its governing body, an	nd is within the scope of its corporate powers.
	The PO Current
	(Signature of Segretary or certifying official)
	(ognosis or objecting constant)
	<del> </del>

**RECORDED: 08/12/2005** 

PATENT REEL: 016878 FRAME: 0963