504600182 10/18/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARNULF SCHEEL	09/04/2017
KATRIN ASTEMAN	10/04/2017
MATTHIAS INTELMANN	10/04/2017
UDO MERKER	09/04/2017

RECEIVING PARTY DATA

Name:	HERAEUS DEUTSCHLAND GMBH & CO. KG	
Street Address:	HERAEUSSTRASSE 12-14	
City:	HANAU	
State/Country:	GERMANY	
Postal Code:	63450	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15535920

CORRESPONDENCE DATA

Fax Number: (917)332-3773

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: 202-420-2200

Email: jyeddo@blankrome.com
Correspondent Name: BLANK ROME LLP
Address Line 1: 1825 EYE STREET NW

Address Line 4: WASHINGTON, D.C. 20006-5403

ATTORNEY DOCKET NUMBER:	140891.23000
NAME OF SUBMITTER:	JUDY YEDDO
SIGNATURE:	/Judy Yeddo/
DATE SIGNED:	10/18/2017

Total Attachments: 2

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> PATENT REEL: 043896 FRAME: 0802

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RECORDATION FORM COVER SHEET				
PATENTS ONLY				
To the Director of the U.S. Paten	t and Trademark Office: Plea	se record the attached documents or the new address(es) below.		
Name of conveying party(ies)		Name and address of receiving party(ies)		
Arnulf Scheel (09/04/2017), Katrin Asteman (10/04/2017), Matthias Intelmann (10/04/2017), and Udo Merker (09/04/2017) Additional name(s) of conveying party(ies) attached? Yes X No		Name: Heraeus Deutschland GmbH & Co. KG		
		Internal Address:		
		Street Address:		
3. Nature of conveyance/Execution Date(s):				
Execution Date(s) in parentheses	after inventor name	Heraeusstrasse 12-14		
x Assignment Merger	Change of Name			
Security Agreement Joint	—— Research Agreement	City: Hanau		
Government Interest Assignmen	t	State:		
Executive Order 9424, Confirmatory License		Country: Germany Zip: 63450		
Other		Additional name(s) & address(es) attached? Yes X No		
A. Patent Application No.(s) 15/535,920	.dditional numbers attached?	B. Patent No.(s) Yes X No		
		<u> </u>		
5. Name and address to whom co concerning document should be i		6. Total number of applications and patents involved:		
Jonathan P. Mitchell, Ph.D.		7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00		
Name: BLANK ROME LLP		7. Total fee (37 GFR 1.21(ff) & 3.41) \$\psi \ \frac{1}{40.00}\$		
Internal Address:		Authorized to be charged to deposit account		
Street Address: The Chrysler Bu	ilding	Enclosed		
405 Lexington A	ve.	None required (government interest not affecting title)		
City: New York		8. Payment Information		
State: NY	Zip: 10174-0208			
Phone Number: <u>(202)</u> 772-5887				
Docket Number: 140891.23000		Deposit Account Number		
Email Address: patents@blankro	ome.com	Authorized User Name		
9. Signature:	/Jonathan P. Mitchel			
	Signature	Date Tatal number of pages including		
	litchell - 50,239	Total number of pages including cover		
Name of P	erson Signing	sheet, attachments, and documents:		
		eet) should be faxed to (571) 273-0140, or mailed to: of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450		

ASSIGNMENT

WHEREAS, We, ARNULF SCHEEL, residing at Stammheimer Strasse 48,50735 Köln, GERMANY; KATRIN ASTEMAN, residing at Auguste-Kowalski-Straße 52, 51069 Köln, GERMA-NY; MATTHIAS INTELMANN, residing at Humperdinckstr. 6, 40593 Düsseldorf, GERMANY; and UDO MERKER, residing at Auf den Steinen 9, 51105 Köln have invented certain new and useful improvements in

PROCESS FOR PRODUCING FUNCTIONALIZED POLYTHIOPHENES

for which an International Application, designating the United States of America, was filed on November 20, 2015 as Application No. PCT/EP2015/077219; and

WHEREAS, HERAEUS DEUTSCHLAND GMBH & CO. KG, a Corporation organized under and pursuant to the laws of Germany having its principal place of business at Heraeusstraße 12-14, 63450 Hanau, GERMANY, is desirous of acquiring the entire right, title and interest in said invention and in any and all patents of the United States that may be obtained therefore;

NOW, THEREFORE, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, We have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said corporation, its legal representatives, successors and assigns, the entire and exclusive right, title and interest in and to the abovementioned application and in and to the invention described in said application, and in and to any and all Patents of the United States which may hereafter be granted therefor, and in and to any and all continuations, continuationsin-part, substitutions, divisions or reissues thereof, and in and to any and all applications for Patent which may be filed for said invention in countries foreign to the United States, and in and to any and all Patents for said invention which may be granted in countries foreign to the United States; the same to be held and enjoyed by the said corporation, its legal representatives, successors and assigns, to the full end of the term for which said Patents may be granted or may be reissued or extended, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

AND, We hereby authorize the Commissioner of Patents to issue any and all Patents of the United States on said invention or resulting from said Application and from any and all divisions and continuations thereof to the said corporation as the assignee of the entire right, title and interest in and to the same.

IN TESTIMONY WHEREOF, We have hereunto set our hands and seals.

In the presence of:

<u>2017 - /o - o 4</u> Date

PATENT REEL: 043896 FRAME: 0804

RECORDED: 10/18/2017