502719971 03/13/2014

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| FREDERIC VAUTARD | 02/26/2014 |

RECEIVING PARTY DATA

| Name: | Oak Ridge Associated Universities |
|-----------------|-----------------------------------|
| Street Address: | 120 Badger Avenue |
| City: | Oak Ridge |
| State/Country: | TENNESSEE |
| Postal Code: | 37830 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14107416 |

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| ATTORNEY DOCKET NUMBER: | 3045 ORAU |
|-------------------------|----------------|
| NAME OF SUBMITTER: | KAREN E. VANCE |
| SIGNATURE: | /KE Vance/ |
| DATE SIGNED: | 03/13/2014 |

Total Attachments: 3

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PATENT 502719971 REEL: 032427 FRAME: 0816

Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

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| To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. | | |
| Name of conveying party(ies) Frederic Vautard | 2. Name and address of receiving party(ies) Name: Oak Ridge Associated Universities Internal Address: | |
| Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 02/26/2014 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment | Street Address: 120 Badger Avenue City: Oak Ridge State: TN | |
| Executive Order 9424, Confirmatory License Other | Country: USA Zip: 37830 Additional name(s) & address(es) attached? Yes Vo | |
| A. Patent Application No.(s) 14/107,416 Additional numbers att | document is being filed together with a new application. B. Patent No.(s) tached? Yes No | |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 | |
| Name: Joseph A. Marasco Internal Address: UT-Battelle, LLC | 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 | |
| Street Address: One Bethel Valley Road 4500N, MS-6258 | Enclosed None required (government interest not affecting title) | |
| City: Oak Ridge | 8. Payment Information a. Credit Card Last 4 Numbers | |
| State: TN Zip:37831-6258 Phone Number: /995) 574 4179 | Expiration Date | |
| Phone Number: (865) 574-4178 Fax Number: (865) 574-0381 | b. Deposit Account Number <u>13-1958</u> Authorized User Name <u>Karen E. Bowman</u> | |
| Email Address: marascoja@ornl.gov 9. Signature: | | |
| Joseph A. Marasco/ Signature Joseph A. Marasco, Reg. No. 32798 Name of Person Signing | Total number of pages including cover sheet, attachments, and documents: | |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

REEL: 032427 FRAME: 0817

ASSIGNMENT

WHEREAS, I the below-named inventor whose residence is stated below, have co-invented certain new and useful improvements in

Multifunctional Curing Agents and their Use in Improving Strength of Composites Containing
Carbon Fibers Embedded in a Polymeric Matrix

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 14/107.416 filed on December 16, 2013, and

WHEREAS, Oak Ridge Associated Universities, the not-for-profit operating contractor of the U.S. Department of Energy's Oak Ridge Institute for Science and Education under it prime contract No. DE-AC05-06OR23100, having an address at 100 ORAU Way, Post Office Box 117, Mail Stop 27, Oak Ridge, Tennessee 37831-0117, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW. THEREFORE, in accordance with the terms of my employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged. I hereby assign to ASSIGNEE my entire right, title and interest in the Subject Invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the Subject Invention.

I hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, I hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

I further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on me, my heirs, legal representatives, and assigns.

interest

Name of inventor: Fr

Frederic Vautard

Date: 02/26/19

Residence:

2231 Knob Hill Drive #21, Okemos, Michigan 48864

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PATENT REEL: 032427 FRAME: 0819