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| RECORDATION FORM COVER SHEET | | | | | |
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| PATENTS ONLY ARL 11-51 | | | | | |
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| Joseph J. Lenhart Robert H. Lambeth | Internal Address: Secretary of the Army | | | | |
| Jan W. Andzelm Additional name(s) of conveying party(ies) attached? Yes ☐ No | | | | | |
| 3. Nature of conveyance/Execution Date(s): | Street Address: 101 Army Pentagon | | | | |
| Execution Date(s) 5/23/2013, 5/28/2013 | | | | | |
| Assignment Merger | | | | | |
| Security Agreement Change of Name | City: Washington | | | | |
| Joint Research Agreement | State: _DC | | | | |
| Government Interest Assignment | Country: USA Zip: 20310 | | | | |
| Executive Order 9424, Confirmatory License | Country: <u>usa</u> Zip: <u>20310</u> | | | | |
| Other | Additional name(s) & address(es) attached? Yes X No | | | | |
| 4. Application or patent number(s): This document is being filed together with a new application. | | | | | |
| A. Patent Application No.(s) B. Patent No.(s) | | | | | |
| | · | | | | |
| . 13/891,477 | | | | | |
| Additional numbers at | I ached? Yes No | | | | |
| 5. Name and address to whom correspondence | 6. Total number of applications and patents | | | | |
| concerning document should be mailed: | involved: 1 | | | | |
| Name: U.S. Army Research Laboratory | 7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00 | | | | |
| Internal Address: Attn: RDRL-LOC-I/Alan I. Kalb | | | | | |
| | Authorized to be charged to deposit account | | | | |
| Street Address: 2800 Powder Mill Road | Enclosed | | | | |
| | None required (government interest not affecting title) | | | | |
| City: Adelphi | 8. Payment Information | | | | |
| State: Maryland Zip: 20783 | | | | | |
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| Fax Number: 301-394-3972 | • | | | | |
| Email Address: nadine,l.loman.civ@mail.mll | Authorized User Name Alan I, Kalb | | | | |
| 9. Signature: | Jue 10, 2013 | | | | |
| Signature | Date | | | | |
| Alan i. Kalb, Reg. No. 52,486 | Total number of pages including cover sheet, attachments, and documents: | | | | |
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PATENT REEL: 030811 FRAME: 0750

ASSIGNMENT AND AGREEMENT

| ASSIGIMEN | I AND AGREEMEN | | | | | |
|--|--|-----------------------------------|--|--|--|--|
| Title of Invention: BRANCHED ADDITIVES FOR POLYMER TOUGHENING | | | | | | |
| Inventor(s): Randy A. Mrozek, Joseph L. Lenhart, Robert H. Lambeth, Jan W. Andzelm | | | | | | |
| Date Declaration Executed: 5/9/2013, 5/10/2013 | Date Declaration Executed: 5/9/2013, 5/10/2013 | | | | | |
| *Application Serial No.: 13/891,477 *Filing | Date: 5/10/2013 | Docket No.: ARL 11-51 | | | | |
| (*I (We) herby authorize the application serial nu | mber and filing date of said | application be added when known.) | | | | |
| I, the undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of circumstances under which the above-identified invention was made, hereby: | | | | | | |
| 1. Assign to the Government of the United States, as represented by the Secretary of the Army, my entire right, title, and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation or division of said application and any reissue or extension of said Letters Patent. | | | | | | |
| 2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me, subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent in which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government. | | | | | | |
| 3. Agree to provide any further information within my knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon. | | | | | | |
| Signature of Inventor: (Hirst name) | (Middle Initial) | (Last Name) | | | | |
| Duty Address: Aberdeen Proving Ground, Aberdee (Locality) | n Harford (County) | Maryland (State) | | | | |
| Date: 5/23/2013 Typed name of Inventor: Randy A. Mrozek | | | | | | |
| ********(notarizing preferred)******* State of: MACHLAND SS. County of: HACKIED [place where acknowledgement is taken] | | | | | | |
| On the above date Randy A. Mrozek known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed. In witness whereof I hereunto set my hand and official seal. | | | | | | |
| | LAWRENCE WILL | IAM BURTON | | | | |
| and the second of the second o | (Printed or typewritten na | ime of notary public) | | | | |
| (CEAL) | (Signature of notary publ | ic) | | | | |

My Commission expires on

| Signature of Inventor: (First name) | (Middle Initial) | (Last Name) | | | |
|--|---|--|--|--|--|
| Duty Address: Aberdeen Proving Ground, Aberdeen (Locality) Date: 5/23/20/3 Typed name of | Harford (County) Inventor: Joseph L. Lenhart | Maryland (State) | | | |
| ********** State of: MARYLAND SS. County of: MARYLAND SS. County of: MARYLAND Splace where acknowledgement is taken] On the above date Joseph L. Lenhart known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed. In witness whereof I hereunto set my hand and official seal. | | | | | |
| (SEAL) | (Printed or typewritten name of (Signature of notary public) My Commission expires on | f notary public) | | | |
| Signature of Inventor: (First name) | (Middle Initial) | Janufark (Last Name) | | | |
| Duty Address: Aberdeen Proving Ground, Aberdeen (Locality) | (County) | Maryland (State) | | | |
| Date: | | | | | |
| (SEAL) | (Printed or typewritten name of Secure William (Signature of notary public) My Commission expires on | Buton f notary public) Buton e/6/13 | | | |

| Signature of Inventor: | Jan | W | Andrelm | | |
|--|--|-----------------------------------|---------------------|--|--|
| | (First name) | (Middle Initial) | (Last Name) | | |
| Duty Address: Aberdee | n Proving Ground, Aberdeen (Locality) | Harford (County) | Maryland (State) | | |
| Date: 5/28/3 | Typed name of | Inventor: Jan W. Andzelm | | | |
| *******(notarizing preferred)****** | | | | | |
| State of: MARYLAND |) SS. | | | | |
| County of: HAPFOR |) [place | where acknowledgement is taken | | | |
| On the above date | | | | | |
| | | (Printed or typewritten name of n | | | |
| and the second s | • | LAUNENCE WILLIAM BU | | | |
| | | (Signature of notary public) | a. | | |
| (SEAL) | , | My Commission expires on | E/6/B | | |