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AKL 10-10

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<b>1. Name of conveying party(ies)</b> Kristoffer K. Stokes Michael C. Berg Joseph L. Lenhart Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies)</b> Name: <u>The United States Government as represented by the</u> Internal Address: <u>Secretary of the Army</u> Street Address: <u>101 Army Pentagon</u> City: <u>Washington</u> State: <u>DC</u> Country: <u>USA</u> Zip: <u>20310</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) <u>4/24/12; 5/4/2012; 5/3/2012</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		<b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>13/472,562</u> B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>U.S. Army Research Laboratory</u> Internal Address: <u>Attn: RDRL-LOC-I/Alan I. Kalb</u> Street Address: <u>2800 Powder Mill Road</u> City: <u>Adelphi</u> State: <u>Maryland</u> Zip: <u>20783</u> Phone Number: <u>301-394-1769</u> Fax Number: <u>301-394-3972</u> Email Address: <u>nadine.l.loman.civ@mail.mil</u>		<b>6. Total number of applications and patents involved:</b> <u>1</u> <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ <u>40.00</u> <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
<b>9. Signature:</b> <u>Alan I. Kalb</u> Signature Alan I. Kalb, Reg. No. 52,486 Name of Person Signing		<b>8. Payment Information</b> Deposit Account Number <u>19-2201</u> Authorized User Name <u>Alan I. Kalb</u> Total number of pages including cover sheet, attachments, and documents: <input type="text" value="4"/>	

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

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### ASSIGNMENT AND AGREEMENT

**Title of Invention: PROCESS ENHANCEMENT VIA STIMULI RESPONSIVE PARTICLE SURFACES**

Inventor(s): Kristoffer K. Stokes, Michael C. Berg, Joseph L. Lenhart

Date Declaration Executed: 4/24/12, 4/26/12, 5/3/12

\*Application Serial No.: 13/472,562 \*Filing Date: 5/16/12 Docket No.: ARL 10-10

(\*I (We) herby authorize the application serial number 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: [Handwritten Signature]  
(First name) (Middle Initial) (Last Name)

Duty Address: Charlotte Mecklenburg NC  
(Locality) (County) (State)

Date: 4/24/12 Typed name of Inventor: **Kristoffer K. Stokes**

\*\*\*\*\* (notarizing preferred) \*\*\*\*\*

State of: North Carolina SS.  
County of: Mecklenburg ) [place where acknowledgement is taken]

On the above date Kristoffer K. Stokes 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.

CHRISTINE W. Sanyas  
(Printed or typewritten name of notary public)  
[Handwritten Signature]  
(Signature of notary public)

(SEAL)

My Commission expires on Oct. 24, 2012



ARL 10-10  
S/N 13/472,562  
Filed 5/16/2012

Signature of Inventor: \_\_\_\_\_  
(First name) (Middle Initial) (Last Name)

Duty Address: \_\_\_\_\_  
(Locality) (County) (State)

Date: \_\_\_\_\_ Typed name of Inventor: **Michael C. Berg**

\*\*\*\*\**(notarizing preferred)*\*\*\*\*\*

State of: \_\_\_\_\_ ) SS.  
County of: \_\_\_\_\_ ) [*place where acknowledgement is taken*]

On the above date Michael C. Berg 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.

\_\_\_\_\_  
(Printed or typewritten name of notary public)

\_\_\_\_\_  
(Signature of notary public)

(SEAL)

My Commission expires on \_\_\_\_\_

Signature of Inventor: Joseph L Lenhart  
(First name) (Middle Initial) (Last Name)

Duty Address: Aberdeen Proving Ground, Aberdeen Harford Maryland  
(Locality) (County) (State)

Date: 5/3/2012 Typed name of Inventor: **Joseph L. Lenhart**

\*\*\*\*\**(notarizing preferred)*\*\*\*\*\*

State of: MARYLAND ) SS.  
County of: HARFORD ) [*place 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.

LAWRENCE WILLIAM BURTON  
(Printed or typewritten name of notary public)

Lawrence William Burton  
(Signature of notary public)

(SEAL)

My Commission expires on 8/6/13