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ARL 12-34

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

**1. Name of conveying party(ies)**

Andre A. Williams  
Joshua A. Orlicki

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: The United States of America as represented by the

Internal Address: Secretary of the Army

Street Address: 101 Army Pentagon

City: Washington

State: DC

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**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 6/25/2013

- Assignment  Merger  
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 Joint Research Agreement  
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**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

13/926,097

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: U.S. Army Research Laboratory

Internal Address: Attn: RDRL-LOC-I/Alan I. Kalb

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**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

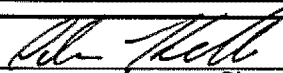
- Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 19-2201

Authorized User Name Alan I. Kalb

**9. Signature:**

  
Signature

9/17/13  
Date

Alan I. Kalb, Reg. No. 52,486  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

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### ASSIGNMENT AND AGREEMENT

**Title of Invention:** MICROBIAL GROWTH ENHANCEMENT FROM A DRY FILM ADDITIVE

Inventor(s): Andre A. Williams, Joshua A. Orlicki

Date Declaration Executed: 6/25/2013

\*Application Serial No.: 13/926,097 \*Filing Date: 6/25/2013 Docket No.: ARL 12-34

(\*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: Andre (First name) A. (Middle Initial) Williams (Last Name)

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

Date: 6/25/13 Typed name of Inventor: Andre A. Williams  
\*\*\*\*\* (notarizing preferred) \*\*\*\*\*

State of: MARYLAND ) SS.  
County of: HARFORD ) [place where acknowledgement is taken]

On the above date Andre A. Williams 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.

LAURANCE WILLIAM BURTON  
(Printed or typewritten name of notary public)  
Laurence William Burton  
(Signature of notary public)

(SEAL)

My Commission expires on 6/6/13

ARL 12-34

Signature of Inventor: Joshua A. Orlicki  
 (First name) (Middle Initial) (Last Name)

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

Date: 6/25/2013 Typed name of Inventor: Joshua A. Orlicki  
 \*\*\*\*\**(notarizing preferred)*\*\*\*\*\*

State of: MARYLAND ) SS.  
 County of: HARFORD ) [place where acknowledgement is taken]

On the above date Joshua A. Orlicki 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.

LAURENCE WILLIAM BURTON  
 (Printed or typewritten name of notary public)  
Laurence William Burton  
 (Signature of notary public)

My Commission expires on 8/6/13

(SEAL)