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ARL 12-53

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Leonid A. Beresnev
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Gary W. Carhart

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

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Street Address: 101 Army Pentagon

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Execution Date(s) 9/26/2013

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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)

B. Patent No.(s)

14/039,665

Additional numbers attached? Yes No

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

Name: U.S. Army Research Laboratory

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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
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 None required (government interest not affecting title)

8. Payment Information

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11/5/2013

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ARL 12-53

Signature of Inventor: Jony J. Liu

 (First name) (Middle Initial) (Last Name)

Duty Address: Army Research Laboratory, Adelphi, Montgomery Maryland
 (Locality) (County) (State)

Date: 9/26/2013 Typed name of Inventor: **Jony J. Liu**

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

State of: Maryland) SS.
 County of: Montgomery) [place where acknowledgement is taken]

On the above date Jony J. Liu 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.

Nadine L. Loman

 (Printed or typewritten name of notary public)
Nadine L. Loman

 (Signature of notary public)

My Commission expires on February 27, 2015

(SEAL)

Signature of Inventor: Gary W. Carhart

 (First name) (Middle Initial) (Last Name)

Duty Address: Army Research Laboratory, Adelphi, Montgomery Maryland
 (Locality) (County) (State)

Date: 9-26-2013 Typed name of Inventor: **Gary W. Carhart**

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

State of: Maryland) SS.
 County of: Montgomery) [place where acknowledgement is taken]

On the above date Gary W. Carhart 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.

Nadine L. Loman

 (Printed or typewritten name of notary public)
Nadine L. Loman

 (Signature of notary public)

My Commission expires on February 27, 2015

(SEAL)