

Form PTO-1595 (Rev. 07/05)
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1. Name of conveying party(ies)

LANCE R. MARRANO

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 08/30/2005

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: UNITED STATES GOVERNMENT

Internal Address: HUMPHREYS ENGINEER CENTER

CEHEC-OC (KINGMAN BLDG.)

Street Address: 7701 TELEGRAPH ROAD

City: ALEXANDRIA

State: VA

Country: USA Zip: 22315-3860

Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**A. Patent Application No.(s)
11/223,251☐ This document is being filed together with a new application.
B. Patent No.(s)Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: PATRICIA HOWLAND

Internal Address: HUMPHREYS ENGINEER CENTER

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Street Address: 7701 TELEGRAPH ROAD

City: ALEXANDRIA

State: VA Zip: 22315-3860

Phone Number: 703 428-6672

Fax Number: 702 428-7633

Email Address: _____

6. Total number of applications and patents involved: 1**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40**

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
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8. Payment Informationa. Credit Card Last 4 Numbers _____
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Authorized User Name EARL H. BAUGHER, JR.

9. Signature:

Signature

09/14/2005

Date

EARL H. BAUGHER, JR. 40,905

Name of Person Signing

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

2

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CH \$40.00 012505 11223251

Attorney Docket No.
COE-582CIP

ASSIGNMENT

ASSIGNMENT OF INVENTION

Title of Invention: **CONDITION LIFECYCLE MATHEMATICAL MODEL AND PROCESS**

Inventor: **LANCE R. MARRANO**

The undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assigns to the Government of the United States, as represented by the Secretary of the Army, the 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, continuation-in-part or division of said application and any reissue or extension of said Letters patent.
2. Agrees 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 rights, 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 which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government or in furtherance of the foreign policies of the Government, or both.
3. Agrees 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: *Lance R. Marrano* Date: 30 Aug 2005

Name of Inventor: LANCE R. MARRANO
(First Name) (Middle Initial) (Last Name)

Address: 3201 FLORENCE DR., CHAMPAIGN CHAMPAIGN IL 61822
(Locality) (County) (State)

State of ILLINOIS

County of CHAMPAIGN

} ss.

On the above date, **LANCE R. MARRANO**, known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledge to me that the same is his own free act and deed.

My commission Expires: 3/6/06

Tracy L. Bickers
Signature of Notary Public



PATENT

RECORDED: 09/14/2005

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