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Assignment Security Agreement

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Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Leonard Karas Execution Date
Month Day Year
11 13 2001

Name (line 2) _____

Second Party

Name (line 1) _____ Execution Date
Month Day Year

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Lockheed Martin Corporation

Name (line 2) a Maryland corporation

Address (line 1) Lockheed Martin Federal Systems

Address (line 2) 1801 State Route 17C

Address (line 3) Owego New York/USA 13827

City State/Country Zip Code

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PATENT
REEL: 012327 FRAME: 0553

Correspondent Name and Address

Area Code and Telephone Number

617-854-4000

Name Jerry Cohen

Address (line 1) Perkins, Smith & Cohen, LLP

Address (line 2) One Beacon Street

Address (line 3)

Address (line 4) Boston, Massachusetts 02108-3106

Pages

Enter the total number of pages of the attached conveyance document including any attachments

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Application Number(s) or Patent Number(s)

Mark if additional numbers attached.

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Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number as not been assigned.

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed

Deposit Account

Deposit Account 50-0646

Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

50-0646

Authorization to charge additional fees:

Yes

No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Jacob N. Erlich, Reg. No. 24,338

Jacob N. Erlich
Signature

Nov 14, 2001
Date

Name of Person Signing

Date

ASSIGNMENT

WHEREAS, I, Leonard Karas, a resident of Owego, New York; (hereinafter referred to as "Assignor"), have made an invention entitled METHOD FOR MULTI-PARAMETER CHOICE OPTIMIZATION, which claims priority to U.S. Provisional Applications Serial No. 60/249,389 and Serial No. 60/290,809 filed on November 16, 2000 and May 14, 2001, respectively, and for which an application for a United States Patent is being filed herewith.

WHEREAS, Lockheed Martin Corporation, a corporation organized and existing under the laws of the State of Maryland, having its principal place of business at Lockheed Martin Federal Systems, 1801 State Route 17C, Owego, New York 13827 (hereinafter referred to as "Assignee"), is desirous of acquiring right, title and interest in said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor by these presents, does sell, assign and transfer to Assignee, Assignor's entire right, title and interest, for the United States of America and its possessions and territories and for all foreign countries, in and to said invention, including all rights of priority created and conferred by any treaty or international convention which is available in connection with said invention, including the right to apply for patent rights, U.S. or foreign, and in any continuations, divisions, substitutes, renewals, reissues or other applications filed in the U.S. or abroad (including multinational filing arrangements of all kinds), and in any U.S. or foreign patents issued on any such applications and reissues, extensions and renewals thereof, to be held and enjoyed by Assignee, for its own use and behalf and for its successors and assigns, to the full ends of the terms or extended terms for which any Letters Patents or the like may be granted, as fully and entirely as the same would have been held by Assignor had this sale, assignment and transfer not been made.

Assignor hereby authorizes and request the Commissioner for Patents of the United States, and any official of any country or countries (including multinational filing arrangements of all kinds), whose duty it is to receive and/or examine applications for patents or similar industrial property, issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors and assigns, in accordance with the terms of this instrument.

Assignor covenants with Assignee, its successors, assigns, and legal representatives that Assignor has full right to convey the entire interest herein assigned, and that Assignor has not executed any agreement in conflict herewith and will not execute any agreement or conveyance in conflict herewith.

Assignor further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignors respecting said invention, and testify in any legal proceeding, sign all lawful papers, including, without limitation, application papers, assignments, powers of attorney, declarations, and other instruments, execute all divisional, continuing, substitute, reissue, renewal and foreign applications, make all truthful oaths, declarations and statements, and generally do everything reasonably requested of Assignor by Assignee, or its successors or assigns to aid Assignee, its successors or assigns, to obtain, enforce and/or exploit said invention.

Executed this 13th day of November, 2001.

Leonard Karas
Leonard Karas

State of New York)
County of Broome)

) ss.

Before me appeared Leonard Karas on this 13th day of Nov., 2001, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Patricia B. Krassin
Notary Public
My commission expires 4/12/03

PATRICIA B. KRASSIN
Notary Public, State of New York
Registration No. 01KR8023125
Residing in Broome County
My Commission Expires 04/12/03

SEAL