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 OMB No. 0651-0027 (exp. 6/30/2005)  
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
 Richard Roland King (January 8, 2004); Peter C. Colter (January 13, 2004); James H. Ermer (January 9, 2004); Moran Haddad (January 9, 2004); Nasser H. Karam (January 13, 2004)  
 Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
 Name: The Boeing Company  
 Internal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Street Address: 100 North Riverside  
 \_\_\_\_\_  
 City: Chicago State: IL Zip: 60606  
 Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
 Execution Date: 01/08/04; 01/09/04; 01/13/04

4. Application number(s) or patent number(s):  
 If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
 A. Patent Application No.(s)  
10/356,028  
 Additional numbers attached?  Yes  No

B. Patent No.(s)  
 \_\_\_\_\_

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Steven W. Hays  
 Internal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Street Address: 28333 Telegraph Road, Suite 250  
 \_\_\_\_\_  
 City: Southfield State: MI Zip: 48034

6. Total number of applications and patents involved:  0  1  
 7. Total fee (37 CFR 3.41).....\$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:  
50-0476  
 (Attach duplicate copy of this page if paying by deposit account)

**DO NOT USE THIS SPACE**

9. 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.*  
Steven W. Hays Steven W. Hays January 14, 2004  
 Name of Person Signing Signature Date

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

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

CH \$40.00 500476 10356028

## ASSIGNMENT

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PD-200253 CIP (BOE 0401 PA)

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a **WIDE-BANDGAP, LATTICE-MISMATCHED WINDOW LAYER FOR A SOLAR ENERGY CONVERSION DEVICE** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on January 31, 2003 as Serial No. 10/356,028; and

WHEREAS, **The Boeing Company**, (hereinafter referred to as **BOEING**), a corporation organized and existing under the laws of the State of Delaware, having a place of business at 100 North Riverside, Chicago, Illinois 60606-1596, with a mailing address of M/C 1640-2101, 15460 Laguna Canyon Road, Irvine, California 92618, US, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, In consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to **BOEING**, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in- part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said **BOEING**, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to **BOEING**, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by **BOEING**, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of **BOEING**, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in **BOEING**, its successors, assigns or other legal representatives.

PATENT  
REEL: 014259 FRAME: 0578

ASSIGNMENT  
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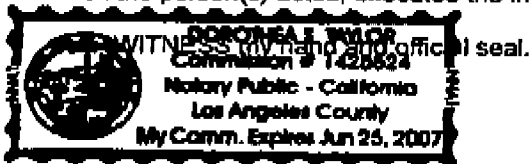
IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Richard Roland King	INVENTOR'S SIGNATURE <i>Richard Roland King</i>	DATE 1/8/04
RESIDENCE (CITY AND STATE) 769 Lynnmere Drive, Thousand Oaks, CA 91360		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On JANUARY 8<sup>TH</sup>, 2004 before me, DOROTHEA S. TAYLOR

a Notary Public in and for said State, personally appeared Richard Roland King,  personally known to me or  proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Dorothea S. Taylor  
Notary Public

IN WITNESS WHEREOF, I have executed this instrument.

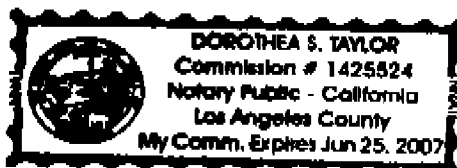
FULL NAME OF SOLE OR JOINT INVENTOR Peter C. Colter	INVENTOR'S SIGNATURE <i>Peter C Colter</i>	DATE 1/13/04
RESIDENCE (CITY AND STATE) 27327 Fahren Court, #102, Canyon Country, CA 91351		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On JANUARY 13<sup>TH</sup>, 2004 before me, DOROTHEA S. TAYLOR

a Notary Public in and for said State, personally appeared Peter C. Colter,  personally known to me or  proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Dorothea S. Taylor  
Notary Public

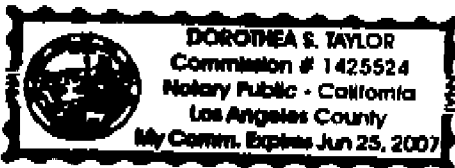
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FULL NAME OF SOLE OR JOINT INVENTOR James H. Ermer	INVENTOR'S SIGNATURE <i>James H. Ermer</i>	DATE 01/09/04
RESIDENCE (CITY AND STATE) 918 E. Tujunga Avenue, Burbank, CA 91501		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On JANUARY 9<sup>TH</sup>, 2004 before me, DOROTHEA S. TAYLOR,  
a Notary Public in and for said State, personally appeared James H. Ermer,  personally known to me or   
proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the  
within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized  
capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of  
which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



*Dorothea S. Taylor*  
Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR Moran Haddad	INVENTOR'S SIGNATURE <i>Moran Haddad</i>	DATE 01/09/2004
RESIDENCE (CITY AND STATE) 19735 Strathern Street, Winnetka, CA 91306		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On JANUARY 9<sup>TH</sup>, 2004 before me, DOROTHEA S. TAYLOR,  
a Notary Public in and for said State, personally appeared Moran Haddad,  personally known to me or   
proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the  
within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized  
capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of  
which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



*Dorothea S. Taylor*  
Notary Public

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FULL NAME OF SOLE OR JOINT INVENTOR Nasser H. Karam	INVENTOR'S SIGNATURE <i>Nasser H. Karam</i>	DATE 1/13/04
RESIDENCE (CITY AND STATE) 10314 Sandle Wood Lane, Northridge, CA 91328		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On JANUARY 12<sup>TH</sup>, 2004 before me, DOROTHEA S. TAYLOR

a Notary Public in and for said State, personally appeared Nasser H. Karam, ~~or~~ personally known to me or  proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

*Dorothea S. Taylor*  
Notary Public

