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| PATENT ASSIGNMENT COVER SHEET |
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 Stylesheet Version v1.2

EPAS ID: PAT6874752

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GAIL P ANDERSON | 05/14/2021 |
| JAMES H CHETWYND JR | 05/17/2021 |
| MICHAEL L HOKE | 05/17/2021 |
| RECEIVING PARTY DATA | |
| Name: | GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE AIR FORCE |
| Street Address: | 1551 WYOMING BLVD SE |
| City: | KIRTLAND AFB |
| State/Country: | NEW MEXICO |
| Postal Code: | 87117 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Patent Number: | 7433806 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Email: | guadalupe.robson.1@us.af.mil |
| Correspondent Name: | AIR FORCE NUCLEAR WEAPONS CENTER |
| Address Line 1: | 1551 WYOMING BLVD SE |
| Address Line 4: | KIRTLAND AFB, NEW MEXICO 87117 |
| NAME OF SUBMITTER: | CHASTITY D. S. WHITAKER, PH.D. |
| SIGNATURE: | / Chastity DS Whitaker / |
| DATE SIGNED: | 08/20/2021 |
| Total Attachments: 3 | |
| source=Gail_Anderson_Assignment_for_7433806_and_7593835#page1.tif | |
| source=James_Chetwynd_assignment_7433806#page1.tif | |
| source=Michael_Hoke_assignment_7433806#page1.tif | |

INVENTOR ASSIGNMENT
(Government Inventor)

WHEREAS, I, Gail P Anderson, while employed by the Government of the United States, made or contributed to the inventions described in Patent No. 7,433,806 issued on 7 October 2008 and entitled "BAND MODEL METHOD FOR MODELING ATMOSPHERIC PROPAGATION AT ARBITRARILY FINE SPECTRAL RESOLUTION," and in Patent No. 7,593,835 issued on 22 September 2009 and entitled "REFORMULATED ATMOSPHERIC BAND MODEL METHOD FOR MODELING ATMOSPHERIC PROPAGATION AT ARBITRARILY FINE SPECTRAL RESOLUTION AND EXPANDED CAPABILITIES"; and

WHEREAS, my previous assignments to these inventions recorded at Reel/Frame Nos. 011756/0988 on 20 April 2001 and 017762/0252 on 11 April 2006, respectively, were improper as the conditions under which said inventions were made were such as to entitle the Government of the United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest therein, including foreign rights.

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, Gail P Anderson:

HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest, in and to the aforesaid inventions described in the issued patents and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid patent in the United States;

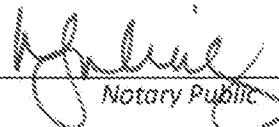
HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title, and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions, and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made;

HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title, and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the first filing date of any application for United States Letters Patent covering the invention or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and

HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.


Gail P Anderson

SUBSCRIBED AND ACKNOWLEDGED before me by Gail P Anderson this 14th day of May 2021, at the city of Boulder in the County of Boulder and State of Colorado


Notary Public

KRISTIN M LINEBERGER
NOTARY PUBLIC - STATE OF COLORADO
NOTARY ID 20084011393
MY COMMISSION EXPIRES MAR 31, 2024
PATENT

INVENTOR ASSIGNMENT
(Government Inventor)

WHEREAS, I, James H. Chetwynd, Jr., while employed by the Government of the United States, made or contributed to the invention described in Patent No. 7,433,806 issued on 7 October 2008 and entitled "BAND MODEL METHOD FOR MODELING ATMOSPHERIC PROPAGATION AT ARBITRARILY FINE SPECTRAL RESOLUTION"; and

WHEREAS, my previous assignment to this invention recorded at Reel/Frame Nos. 011756/0988 on 20 April 2001 was improper as the conditions under which said inventions were made were such as to entitle the Government of the United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest therein, including foreign rights.

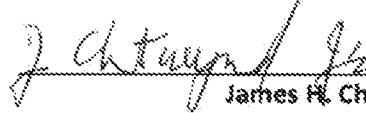
NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, James H. Chetwynd, Jr.:

HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest, in and to the aforesaid invention described in the issued patent and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid patent in the United States;

HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title, and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions, and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made;

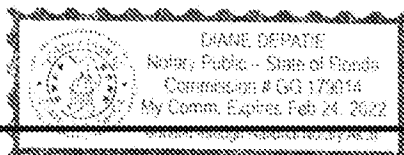
HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title, and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the first filing date of any application for United States Letters Patent covering the invention or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and

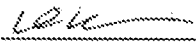
HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.



James H. Chetwynd, Jr.

SUBSCRIBED AND ACKNOWLEDGED before me by James H. Chetwynd, Jr. this 17 day of May 2021, at the city of Bradenton in the County of Manatee and State of Florida.





Notary Public

**INVENTOR ASSIGNMENT
(Government Inventor)**

WHEREAS, I, **Michael L Hoke**, while employed by the Government of the United States, made or contributed to the invention described in Patent No. 7,433,806 issued on 7 October 2008 and entitled "BAND MODEL METHOD FOR MODELING ATMOSPHERIC PROPAGATION AT ARBITRARILY FINE SPECTRAL RESOLUTION"; and

WHEREAS, my previous assignment to this invention recorded at Reel/Frame Nos. 011756/0988 on 20 April 2001 was improper as the conditions under which said inventions were made were such as to entitle the Government of the United States as represented by the Secretary of the Air Force, under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest therein, including foreign rights.

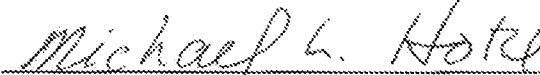
NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, **Michael L Hoke**:

HEREBY HAVE SOLD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto the Government of the United States as represented by the Secretary of the Air Force, my entire right, title, and interest, in and to the aforesaid invention described in the issued patent and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid patent in the United States;

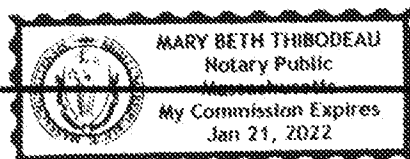
HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title, and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions, and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made;

HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title, and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the first filing date of any application for United States Letters Patent covering the invention or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me, subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any country or jurisdiction foreign to the United States, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and

HEREBY AGREE to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.


Michael L Hoke

SUBSCRIBED AND ACKNOWLEDGED before me by Michael L Hoke this 17th day of May 2021, at the city of Leominster in the County of Worcester and State of Massachusetts.




Notary Public