PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | |
|-----------------------|--|--|--|--|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the Corrective assignment previously recorded under 023886/0388 to correct authorization previously recorded on Reel 023886 Frame 0388. Assignor(s) hereby confirms the Assignor has assigned, unto the Government the entire right, title and interest et al | | | |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| Dr. Robert S. Linzell | 10/20/2009 |

RECEIVING PARTY DATA

| Name: | The United States of America, as represented by the Secretary of the Navy/Naval Research Laboratory |
|-------------------|--|
| Street Address: | 4555 Overlook Ave., SW |
| Internal Address: | Code 1008.2 |
| City: | Washington |
| State/Country: | DISTRICT OF COLUMBIA |
| Postal Code: | 20375 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12579112 |

CORRESPONDENCE DATA

Fax Number: (228)688-5352 Phone: 228-688-5759

Email: kathleen.chapman@nrl.navy.mil

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Kathleen Chapman
Address Line 1: 4555 Overlook Ave SW

Address Line 2: Code 1008.2

Address Line 4: Washington, DISTRICT OF COLUMBIA 20375

| ATTORNEY DOCKET NUMBER: | 100090-US1 | |
|-------------------------|------------------|--------|
| NAME OF SUBMITTER: | Kathleen Chapman | PATENT |

501875639 REEL: 027977 FRAME: 0351

0.00 1257911

Total Attachments: 10 source=100090_Assignment_SIGNED#page1.tif source=100090_Assignment_SIGNED#page2.tif source=100090_Assignment_SIGNED#page3.tif source=100090_Assignment_SIGNED#page4.tif source=100090_Assignment_SIGNED#page5.tif source=100090_Assignment_SIGNED#page6.tif source=100090_Assignment_SIGNED#page7.tif source=PSI assignment of invention#page1.tif source=PSI assignment of invention#page2.tif source=PSI assignment of invention#page3.tif

PATENT REEL: 027977 FRAME: 0352

| I hereby centify that this paper (along with any paper referr | ed to as being attached or enclosed) is being transmitted by facsimile to the Patent and |
|---|--|
| Trademark Office Jacsimile no. (571) 273-8900, on the da | te shown below. |
| Dated: 010110 | Signature: (Kerry L. Broome) |
| | |

ASSIGNMENT BY INVENTORS (UNITED STATES PATENTS)

THIS ASSIGNMENT, made by Cheryl A. Biain and Brett D. Estrade (hereinafter referred to as Assignors), residing at 3654 Meadow Lake Drive West, Slidell, Louisiana 70461; and 1305 Bayou Paul Lane, Saint Gabriel, Louisiana 70776, respectively;

WHEREAS, Assignors, while employed by the Government of the United States, have invented certain new and useful improvements in Fort.22 File Creation Tool, set forth in a Patent application for Letters Patent of the United States, already filed on October 14, 2009 as U.S. Application No. 12/579,112; and

WHEREAS, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

WHEREAS, by acquiring the Assignors' entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignors as allowed by law;

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10095, to the Assignors' entire right, title, and interest therein, including the foreign rights; and

WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged. Assignors have assigned, transferred and set over, and by these presents do assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of seid application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and relssues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignors are the sole and lewful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with the Government, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all tawful caths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said Inventions and the Letters Patent to be issued thereon, for the sole use and benefit of the Government, its successors, legal representatives and assigns.

AND the Assignors do hereby also grant unto the Government, the option to take the Assignors' entire right, title, and interest in the Invention and all patent applications or other forms of protection thereon in all countries foreign to the United States in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that this grant of an option to take foreign rights in the invention, or applications or other forms of protection thereon, shall have force and effect only as to such applications for which a decision to file in foreign countries is made within eight months of the filing date of any application for United States Letters Patent and/or any provisional application 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 Assignors subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to Issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

AND the Assignors hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, afficiavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division, or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

100090-US1

PATENT REEL: 027977 FRAME: 0354 AND Assignors hereby appoint all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Washington, DC 20375, jointly, and each of them severably, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

AND Assignors hereby grant the following Individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office any foreign patent office for recordation of this document:

US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

| Date: 10/20/2009 | Signature: Reyl Chan Blair Cheryl A. Blair |
|------------------|--|
| Date: | Signature: Brett D. Estrade |

AND Assignors hereby appoint all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Washington, DC 20375, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office any foreign patent office for recordation of this document:

US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

| Date: | Signature: |
|------------------|--|
| 92-93- | Cheryl A. Blain |
| Date: 12/01/2009 | Signature: Manage Manage Signature: Manage M |

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Robert S. Linzell (hereinafter referred to as Assignor), residing at 232 Ben

Gill Road, Carriere, Mississippi 39426;

WHEREAS, Assignor, has invented certain new and useful improvements in Fort.22 File Creation Tool, set

forth in a Patent application for Letters Patent of the United States, already filed on October 14, 2009 as U.S.

Application No. 12/579,112; and

WHEREAS, The Government of the United States of America, as represented by the Secretary of the

Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and

interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any

Letters Patent of the United States to be obtained therefore and thereon,

WHEREAS, by acquiring the Assignors' entire right, title, and interest in and to the invention the

Government will be enabled to license the invention and share the income from the licensing with the Assignors as

allowed by law;

WHEREAS, Assignor is obligated as employee of Planning Systems Inc. (Contractor) to assign inventions

to Contractor, and Contractor is obligated to the Government under contract no. N00173-07-C-6012;

NOW, THEREFORE, in consideration of the premises and other good and sufficient consideration, the

receipt of which is hereby acknowledged, Assignor has assigned, transferred and set over, and by these presents does

assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, subject to a

nonexclusive and royalty-free license which is hereby reserved to Contractor, the entire right, title and interest in and to

the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect

divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States

which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and

all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed

by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and

assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and

entirely as the same would have been held and enjoyed by Assignor, had this assignment not been made.

AND the license reserved to the Contractor shall extend to all existing and future associated and affillated

companies, if any within the corporate structure of Contractor is a part and shall be assignable to the successor of

that part of Contractor's business to which such invention pertains.

AND for the same consideration, Assignor hereby represents and warrants to the Government, its

successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for

any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with the Government, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful caths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of the Government, its successors, legal representatives and assigns.

AND the Assignor hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division, or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

AND Assignor hereby appoints all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Washington, DC 20375, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

AND Assignor hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office any foreign patent office for recordation of this document:

US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

100090-U\$1

Date: 10/20/2009 Signature: M. J. Seal Robert S. Linzell

Contractor joins in and agrees to the foregoing assignment, and except for the above reservation of a license, relinquishes and assigns all right, title and interest in and to such invention, and further agrees to furnish to the Government, upon request, any available information and documents necessary for the prosecution of any patent application (including prosecution and settlement of interferences) on the above-identified invention, and any substitution, division, continuation-in-part, or continuation of such patent application and any application for reissue of any patent resulting from such patent application.

| | Planning | Systems In | ic. | |
|------|---|------------|--------|--|
| | | | | |
| Date | *************************************** | Authorized | | ************************************** |
| | | | Title: | |

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Robert S. Linzell (hereinafter reforred to as Assignor), residing at 232 Ben Gill Road, Carriere, Mississippi 39426;

WHEREAS, Assignor, has invented certain new and useful improvements in Fort.22 File Creation Tool, set forth in a Patent application for Letters Patent of the United States, already filed on October 14, 2009 as U.S. Application No. 12/579.112; and

WHEREAS, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is destrous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

WHEREAS, by acquiring the Assignors' entire right, title, and interest in and to the invantion the Government will be enabled to license the invention and share the income from the licensing with the Assignors as allowed by law;

WHEREAS, Assignor is obligated as employee of Planning Systems Inc. (Contractor) to assign inventions to Contractor, and Contractor is obligated to the Government under contract no. N00173-07-C-6012;

NOW, THEREFORE, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged. Assignor has assigned, transferred and set over, and by these presents does assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, subject to a nonexclusive and royalty-free ficense which is hereby reserved to Contractor, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the international Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this assignment not been made.

AND the Ecense reserved to the Contractor shall extend to all existing and future associated and affiliated companies, if any within the corporate structure of Contractor is a part and shall be assignable to the successor of that part of Contractor's business to which such invention pertains.

AND for the same consideration, Assignor hereby represents and warrants to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for

100090-US1

PATENT REEL: 027977 FRAME: 0360 any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignor is the sole and lawful owner of the entire right, this and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to self and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with the Government, its successors, legal representatives and assigns, that Assignor with sign all papers and documents, take all tawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is tawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, teexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor hereby requests the Commissioner of Patent and Trademerks to Issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be Issued thereon, for the sole use and benefit of the Government, its successors, legal representatives and assigns.

AND the Assignor hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, efficiently, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division, or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense erising through such efforts will be paid by the Government.

AND Assignor hereby appoints all practitioners at Customer Number 26384, all of US Navel Research Laboratory, 4555 Overlook Ave, SW, Washington, DC 20375, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and ernandments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

AND Assignor hereby grants the following Individuals the power to Insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office any foreign patent office for recordation of this document:

US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

Date: 10/20/2019

Seal

Contractor joins in and agrees to the foregoing assignment, and except for the above reservation of a license, relinquishes and assigns all right, title and interest in and to such invention, and further agrees to furnish to the Government, upon request, any available information and documents necessary for the prosecution of any patent application (including prosecution and settlement of interferences) on the above-identified invention, and any substitution, division, continuation-in-part, or continuation of such patent application and any application for telescue of any patent resulting from such patent application.

Planning Systems Inc.

4/2/12 Date

Deborat for
Authorized Signer: Deborah Fox
Title: Secretary

100090-US1

PATENT REEL: 027977 FRAME: 0362

RECORDED: 04/03/2012