

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5422838

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GARY A. GRIDER	03/08/2019
DOMINIC ANTHONY MANNO	03/11/2019
WENDY KINTON POOLE	03/11/2019
DAVID BONNIE	03/11/2019
JEFFREY THORNTON INMAN	03/11/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TRIAD NATIONAL SECURITY, LLC
<b>Street Address:</b>	P.O. BOX 1663
<b>Internal Address:</b>	LOS ALAMOS NATIONAL LABORATORY, LC/TAS
<b>City:</b>	LOS ALAMOS
<b>State/Country:</b>	NEW MEXICO
<b>Postal Code:</b>	87545
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16353882
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)595-5301
<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>	
<b>Phone:</b>	503-595-5300
<b>Email:</b>	violet.granlund@klarquist.com
<b>Correspondent Name:</b>	RAJEEV ROHATGI, PH.D.
<b>Address Line 1:</b>	121 SW SALMON STREET
<b>Address Line 2:</b>	ONE WORLD TRADE CENTER, SUITE 1600
<b>Address Line 4:</b>	PORTLAND, OREGON 97204
<b>ATTORNEY DOCKET NUMBER:</b>	8472-100496-02
<b>NAME OF SUBMITTER:</b>	RAJEEV ROHATGI, PH.D.
<b>SIGNATURE:</b>	/Rajeev Rohatgi/
<b>DATE SIGNED:</b>	03/14/2019

**Total Attachments: 10**

source=100496-02\_Assignment#page1.tif  
source=100496-02\_Assignment#page2.tif  
source=100496-02\_Assignment#page3.tif  
source=100496-02\_Assignment#page4.tif  
source=100496-02\_Assignment#page5.tif  
source=100496-02\_Assignment#page6.tif  
source=100496-02\_Assignment#page7.tif  
source=100496-02\_Assignment#page8.tif  
source=100496-02\_Assignment#page9.tif  
source=100496-02\_Assignment#page10.tif

DOE S133590

## ASSIGNMENT

WHEREAS, we, **Gary A. Grider**, of Los Alamos, NM, **Dominic Anthony Manno**, of Albuquerque, NM, **Wendy Kinton Poole**, of Los Alamos, NM, **David Bonnie**, of Los Alamos, NM, and **Jeffrey Thornton Inman**, of Santa Fe, NM, have invented certain invention(s), as described at least in part, in the following patent application:

U.S. Patent Application No. 16/353,882, filed on March 14, 2019, entitled  
"GRAND UNIFIED FILE INDEXING,"

which application and invention(s) are collectively referred to as "the Invention."

WHEREAS, **Triad National Security, LLC**, a Delaware Limited Liability Company, located at the Los Alamos National Laboratory, LC/TAS, P.O. Box 1663, Los Alamos, New Mexico 87545, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, **Gary A. Grider**, **Dominic Anthony Manno**, **Wendy Kinton Poole**, **David Bonnie**, and **Jeffrey Thornton Inman** hereby sell, assign, and transfer to **Triad National Security, LLC**, all right, title, and interest we have in and to the Invention and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; the Invention and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by **Triad National Security, LLC**, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made and agree that we will communicate to **Triad National Security, LLC**, or its successors and assigns, any facts known to us respecting the Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid **Triad National Security, LLC**, its successors, and assigns to obtain and enforce proper patent protection for the Invention in the United States or any foreign country.

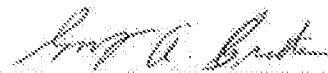
We confirm that, at the time the Invention was made, we were under an obligation to assign the Invention to **Triad National Security, LLC**.

We hereby grant the law firm of **Klarquist Sparkman, LLP**, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with

DOE S133590

all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

  
\_\_\_\_\_  
Gary A. Grider

At Los Alamos, NM  
\_\_\_\_\_  
(City and State)  
on this 8<sup>th</sup> day of March, 2019.

\_\_\_\_\_  
Dominic Anthony Mauno

At \_\_\_\_\_  
\_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Wendy Kinton Poole

At \_\_\_\_\_  
\_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
David Bonnie

At \_\_\_\_\_  
\_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Jeffrey Thornton Iman

At \_\_\_\_\_  
\_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

DOE SI33590

### ASSIGNMENT

WHEREAS, we, **Gary A. Grider**, of Los Alamos, NM, **Dominic Anthony Manno**, of Albuquerque, NM, **Wendy Kinton Poole**, of Los Alamos, NM, **David Bonnie**, of Los Alamos, NM, and **Jeffrey Thornton Inman**, of Santa Fe, NM, have invented certain invention(s), as described at least in part, in the following patent application:

U.S. Patent Application No. 16/353,882, filed on March 14, 2019, entitled  
"GRAND UNIFIED FILE INDEXING,"

which application and invention(s) are collectively referred to as "the Invention."

WHEREAS, **Triad National Security, LLC**, a Delaware Limited Liability Company, located at the Los Alamos National Laboratory, LC/TAS, P.O. Box 1663, Los Alamos, New Mexico 87545, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, **Gary A. Grider**, **Dominic Anthony Manno**, **Wendy Kinton Poole**, **David Bonnie**, and **Jeffrey Thornton Inman** hereby sell, assign, and transfer to Triad National Security, LLC, all right, title, and interest we have in and to the Invention and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; the Invention and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Triad National Security, LLC, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made and agree that we will communicate to Triad National Security, LLC, or its successors and assigns, any facts known to us respecting the Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Triad National Security, LLC, its successors, and assigns to obtain and enforce proper patent protection for the Invention in the United States or any foreign country.

We confirm that, at the time the Invention was made, we were under an obligation to assign the Invention to Triad National Security, LLC.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with

DOE S133590

all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

\_\_\_\_\_  
Gary A. Grider

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Dominic Anthony Manno

At Rio Rancho, NM  
(City and State)  
on this 11 day of March, 2019.

\_\_\_\_\_  
Wendy Kinton Poole

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
David Bonnie

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Jeffrey Thornton Inman

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

DOE S133590

## ASSIGNMENT

WHEREAS, we, **Gary A. Grider**, of Los Alamos, NM, **Dominic Anthony Manno**, of Albuquerque, NM, **Wendy Kinton Poole**, of Los Alamos, NM, **David Bonnie**, of Los Alamos, NM, and **Jeffrey Thornton Inman**, of Santa Fe, NM, have invented certain invention(s), as described at least in part, in the following patent application:

U.S. Patent Application No. 16/353,882, filed on March 14, 2019, entitled  
"GRAND UNIFIED FILE INDEXING,"

which application and invention(s) are collectively referred to as "the Invention."

WHEREAS, **Triad National Security, LLC**, a Delaware Limited Liability Company, located at the Los Alamos National Laboratory, LC/TAS, P.O. Box 1663, Los Alamos, New Mexico 87545, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, **Gary A. Grider**, **Dominic Anthony Manno**, **Wendy Kinton Poole**, **David Bonnie**, and **Jeffrey Thornton Inman** hereby sell, assign, and transfer to Triad National Security, LLC, all right, title, and interest we have in and to the Invention and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; the Invention and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Triad National Security, LLC, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made and agree that we will communicate to Triad National Security, LLC, or its successors and assigns, any facts known to us respecting the Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Triad National Security, LLC, its successors, and assigns to obtain and enforce proper patent protection for the Invention in the United States or any foreign country.

We confirm that, at the time the Invention was made, we were under an obligation to assign the Invention to Triad National Security, LLC.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with

DOE S133590

all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

\_\_\_\_\_  
Gary A. Grider

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Dominic Anthony Manno

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Wendy Kinton Poole

At Los Alamos NM  
(City and State)  
on this 11 day of March, 2019.

\_\_\_\_\_  
David Bonnie

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Jeffrey Thornton Inman

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

DOE S133590

# ASSIGNMENT

WHEREAS, we, **Gary A. Grider**, of Los Alamos, NM, **Dominic Anthony Manno**, of Albuquerque, NM, **Wendy Kinton Poole**, of Los Alamos, NM, **David Bonnie**, of Los Alamos, NM, and **Jeffrey Thornton Inman**, of Santa Fe, NM, have invented certain invention(s), as described at least in part, in the following patent application:

U.S. Patent Application No. 16/353,882, filed on March 14, 2019, entitled  
 "GRAND UNIFIED FILE INDEXING,"

which application and invention(s) are collectively referred to as "the Invention."

WHEREAS, **Triad National Security, LLC**, a Delaware Limited Liability Company, located at the Los Alamos National Laboratory, LC/TAS, P.O. Box 1663, Los Alamos, New Mexico 87545, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, **Gary A. Grider**, **Dominic Anthony Manno**, **Wendy Kinton Poole**, **David Bonnie**, and **Jeffrey Thornton Inman** hereby sell, assign, and transfer to Triad National Security, LLC, all right, title, and interest we have in and to the Invention and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; the Invention and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Triad National Security, LLC, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made and agree that we will communicate to Triad National Security, LLC, or its successors and assigns, any facts known to us respecting the Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Triad National Security, LLC, its successors, and assigns to obtain and enforce proper patent protection for the Invention in the United States or any foreign country.

We confirm that, at the time the Invention was made, we were under an obligation to assign the Invention to Triad National Security, LLC.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with

DOE S133590

all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

\_\_\_\_\_  
**Gary A. Grider**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
**Dominic Anthony Manno**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
**Wendy Kinton Poole**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
**David Bonnie**

At Los Alamos, NM  
(City and State)  
on this 11 day of March, 2019.

\_\_\_\_\_  
**Jeffrey Thornton Inman**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

DOE S133590

## ASSIGNMENT

WHEREAS, we, **Gary A. Grider**, of Los Alamos, NM, **Dominic Anthony Manno**, of Albuquerque, NM, **Wendy Kinton Poole**, of Los Alamos, NM, **David Bonnie**, of Los Alamos, NM, and **Jeffrey Thornton Inman**, of Santa Fe, NM, have invented certain invention(s), as described at least in part, in the following patent application:

U.S. Patent Application No. 16/353,882, filed on March 14, 2019, entitled  
“GRAND UNIFIED FILE INDEXING,”

which application and invention(s) are collectively referred to as “the Invention.”

WHEREAS, **Triad National Security, LLC**, a Delaware Limited Liability Company, located at the Los Alamos National Laboratory, LC/TAS, P.O. Box 1663, Los Alamos, New Mexico 87545, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, **Gary A. Grider**, **Dominic Anthony Manno**, **Wendy Kinton Poole**, **David Bonnie**, and **Jeffrey Thornton Inman** hereby sell, assign, and transfer to Triad National Security, LLC, all right, title, and interest we have in and to the Invention and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; the Invention and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by Triad National Security, LLC, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made and agree that we will communicate to Triad National Security, LLC, or its successors and assigns, any facts known to us respecting the Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid Triad National Security, LLC, its successors, and assigns to obtain and enforce proper patent protection for the Invention in the United States or any foreign country.

We confirm that, at the time the Invention was made, we were under an obligation to assign the Invention to Triad National Security, LLC.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with

DOE S133590

all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

\_\_\_\_\_  
**Gary A. Grider**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
**Dominic Anthony Manno**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
**Wendy Kinton Poole**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
**David Bonnie**

At \_\_\_\_\_  
(City and State)  
on this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

  
\_\_\_\_\_  
**Jeffrey Thornton Inman**

At Los Alamos, NM  
(City and State)  
on this 11 day of March, 2019.