

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4933858

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SOLYMAN ASHRAFI	08/02/2016
NITA SUE LINQUIST, LEGAL REPRESENTATIVE OF ROGER D. LINQUIST'S ESTATE (DECEASED)	07/21/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NXGEN PARTNERS IP, LLC
<b>Street Address:</b>	500 N. AKARD STREET, SUITE 1820
<b>City:</b>	DALLAS
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75201
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15960904
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(972)628-3616
<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>	9726283600
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<b>Correspondent Name:</b>	BRIAN D. WALKER
<b>Address Line 1:</b>	P.O. DRAWER 800889
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<b>ATTORNEY DOCKET NUMBER:</b>	NXGN60-33904
<b>NAME OF SUBMITTER:</b>	BRIAN D. WALKER
<b>SIGNATURE:</b>	/Brian D. Walker, Reg. # 37751/
<b>DATE SIGNED:</b>	04/26/2018
<b>Total Attachments: 3</b>	
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**ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63**

(For Use with Signed Application Data Sheet)

**Title of Invention:** SYSTEM AND METHOD FOR COMBINING MIMO AND MODE-DIVISION MULTIPLEXING

This assignment and declaration are directed to (check one):

- ☐ the attached application;  
☒ the application identified by the attorney docket no. and title of invention given above;  
☐ United States Application or PCT International Application No. \_\_\_\_\_, filed \_\_\_\_\_.

**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

**Name of Assignee:** NxGen Partners IP, LLC

**Address of Assignee:** 500 N. Akard Street, Suite 1820, Dallas, Texas 75201

(hereinafter ASSIGNEE) all my right, title and interest in and to the above-identified invention in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in the United States and all countries of the world and through the Patent Cooperation Treaty and/or the European Patent Convention, including any and all applications claiming priority thereto such as divisions or continuations thereof, and in and to any and all patents granted in the United States and all countries of the world that may issue on any such applications or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States to said ASSIGNEE, its successors, or assigns in accordance herewith.

I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all patents that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing patents for said invention.

**DECLARATION**


As a below-named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature: \_\_\_\_\_



8/2/2016

**Inventor:** Solyman ASHRAFI

DATE

**PATENT****REEL: 045645 FRAME: 0458**

NXGN-33163

PATENT

ASSIGNMENT

Whereas, **Roger D. LINQUIST**, an individual, residing at 6508 Turtle Creek Blvd., Dallas, Texas 75205 ("Assignor"), has invented certain new and useful improvements in a SYSTEM AND METHOD FOR COMBINING MIMO AND MODE-DIVISION MULTIPLEXING (the "Invention"), for which United States Patent Application was filed on July 21, 2016 (Serial No. 15/216,474) (the "Application"); and

Whereas, NxGen Partners IP, LLC, a Delaware limited liability company, located at 500 N. Akard Street, Suite 1820 ("Assignee"), is desirous of acquiring the entire right, title, and interest in the Application.

Now, Therefore, for other good and valuable consideration, Assignor, by these presents does hereby sell, assign, and transfer unto Assignee, its successors, assigns, and legal representatives the full and exclusive right to the Application in the United States and the entire right, title, and interest in and to any and all Patents which may be granted therefore and/or therefrom in the United States, to all divisions, reissues, substitutions, continuations, continuations-in-part, and extensions of said application. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the Invention, or patents resulting therefrom, insofar as Assignor's interests are concerned, to Assignee, of the entire right, title, and interest in and to the same, for his sole use and benefit; and for the use and benefit of his legal representatives, to the full end of the term for which said Patent(s) may be granted, as fully and entirely as the same would have been held by the Assignor had this assignment not been made.


Assignor also sells and assigns to Assignee, its successors, assigns and legal representatives the full and exclusive right, title, and interest to the Invention disclosed in said Application throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for the Invention in the Assignee's own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of the Invention and all rights to register the Invention in appropriate registries, all foreign rights arising from pre-grant publication of the Application; and Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.

Assignor further agrees to communicate to Assignee, its successors, assigns and/or legal representatives, any known facts respecting any improvements, and, at the expense of Assignee, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in Assignee and to aid Assignee, its successors, assigns and legal representatives to obtain and enforce proper protection for the Invention in all countries.

Assignor further authorizes and directs Assignee's attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

PATENT

REEL: 045645 FRAME: 0459

Name of Sole Inventor: **Roger D. Linquist**  
Residence (City, State): **Dallas, Texas**  
Signature:   
Name: ~~Nina Sue~~ **LINQUIST**  
Title: **Legal Representative of Roger D. Linquist's Estate**  
Date: 7/21/16