505309924 02/01/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
JOHN DOUGLAS REED	07/13/2017	

RECEIVING PARTY DATA

Name:	ame: SPIRENT COMMUNICATIONS, INC.	
Street Address: 2708 ORCHARD PKWY, #20		
City: SAN JOSE		
State/Country: CALIFORNIA		
Postal Code:	95134	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16262729	

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ATTORNEY DOCKET NUMBER:	SPIR 1107-3
NAME OF SUBMITTER:	DIANE WIZGIRD
SIGNATURE:	/Diane Wizgird/
DATE SIGNED:	02/01/2019

Total Attachments: 2

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Attorney Docket No.: SPIR 1107-2

ASSIGNMENT

WHEREAS, the undersigned, John Douglas Reed, hereinafter termed "Inventor", has invented certain new and useful improvements in

Over the Air Testing for Massive MIMO Arrays

\boxtimes	as described	d in a provisional	application for a	United	States pate	ent disclosing	and identifying
the	above inven	ition on 14 June 2	2016 as Application	on No.	62/350,133	l; and	·

as described in a non-provisional application for a United States patent disclosing and identifying the above invention on 12 June 2017 as Application No. 15/620,610; and

(hereinafter termed "applications"); and

WHEREAS, **Spirent Communications**, **Inc.**, a corporation of Delaware, having a place of business at **2708 Orchard Pkwy**, # **20**, **San Jose**, **CA 95134** (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said applications and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventors' certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

- 1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents (including patent, utility model and industrial design) on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise, including the right to claim priority from the application; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- 2. Said Inventor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings,

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priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

- The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, the inventor's respective heirs, legal representatives and assigns.
- Said Inventor hereby warrants and represents that said inventor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor has executed and delivered this instrument to said Assignee as of the date written below.

John Douglas Reed

John Douglas Reed

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