

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4323636

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RANDY J. KARR	05/30/2002
JEAN-FRANCOIS GRENON	05/30/2002
FRANK D. COLE	05/30/2002
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VECTRAD NETWORK CORP.
<b>Street Address:</b>	21520 30TH DRIVE SE
<b>Internal Address:</b>	BUILDING A, SUITE 210
<b>City:</b>	BOTHELL
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98021
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15437336
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)855-8200
<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>	214-855-8000
<b>Email:</b>	karen.evans@nortonrosefulbright.com
<b>Correspondent Name:</b>	R. GREESON/NORTON ROSE FULBRIGHT US LLP
<b>Address Line 1:</b>	2200 ROSS AVENUE
<b>Address Line 2:</b>	SUITE 3600
<b>Address Line 4:</b>	DALLAS, TEXAS 75201
<b>ATTORNEY DOCKET NUMBER:</b>	NETP.P0009US.C2C1
<b>NAME OF SUBMITTER:</b>	ROBERT GREESON
<b>SIGNATURE:</b>	/Robert Greeson/
<b>DATE SIGNED:</b>	03/17/2017
<b>Total Attachments: 5</b>	
source=NETP.P0009US.C2C1#page1.tif	
source=NETP.P0009US.C2C1#page2.tif	

source=NETP.P0009US.C2C1#page3.tif

source=NETP.P0009US.C2C1#page4.tif

source=NETP.P0009US.C2C1#page5.tif

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Randy J. Karr; Jean-Francois Grenon; and Frank D. Cole (hereinafter referred to as Assignors), residing at 21409 SE 215th Street, Maple Valley, Washington 98038; 1615 39th Avenue E, Seattle, Washington 98112; and 20611 East Bothell-Everett Hwy, Apt. 159, Bothell, Washington 98012, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in SPECTRUM ALLOCATION SYSTEM AND METHOD FOR MULTI-BAND WIRELESS RF DATA COMMUNICATIONS, set forth in a Patent application for Letters Patent of the United States, already filed on March 11, 2002 as U.S. application No. 10/095,307; and

**WHEREAS**, Vectrad Network Corp., a Corporation organized under and pursuant to the laws of Washington having its principal place of business at 21520 30th Drive SE, Building A, Suite 210, Bothell, Washington 98021 (hereinafter referred to as Assignee), 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.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, 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 said application, and any and all Letters Patent in the United States and all foreign countries 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 Assignee, 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 sale and assignment not been made.

25156534.1

**PATENT**  
**REEL: 012977 FRAME: 0334**  
**PATENT**  
**REEL: 041606 FRAME: 0137**

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, 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 Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful 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 Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful 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 Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, 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 in any country, 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 Assignee, its successors, legal representatives and assigns.

**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 for recordation of this document:

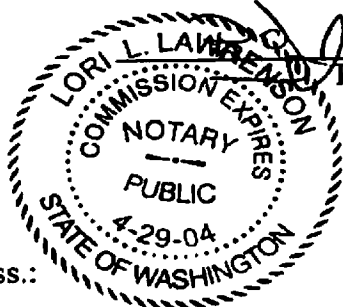
FULBRIGHT & JAWORSKI L.L.P.

David H. Tannenbaum	24,745	Matthew D. Jones	44,810	Michael A. Papalas	40,381
Jody C. Bishop	44,034	Jerry L. Mahurin	34,661	William B. Tiffany	41,347
Michael J. Fogarty, III	42,541	Thomas J. Meaney	41,990	R. Ross Viguet	42,203

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 6-4-02

United States of America )  
State of Washington ) ss.:  
County of King )



J. Karr 5-30-02  
Randy J. Karr

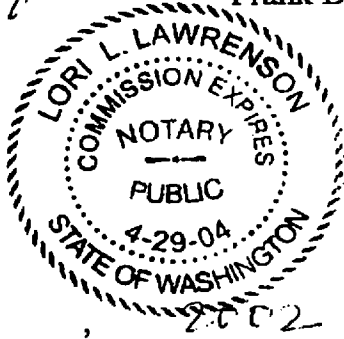
On this 4th day of June, 2002, before me personally came Randy J. Karr, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Lori Lawless  
Notary Public

Frank D. Cole 5-30-02  
Frank D. Cole

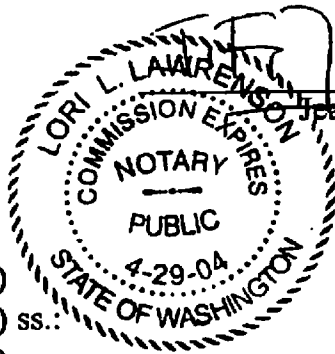
Date: 6/4/02

United States of America )  
State of Washington ) ss.:  
County of King )



On this 4th day of June, 2002, before me personally came Frank D. Cole, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Lori L. Lawrenson  
Notary Public



May 5.30.02

Jean-Francois Grenon

Date: 6-4-02

United States of America )  
State of Washington ) ss.:  
County of King )

On this 4th day of June, 2002, before me personally came Jean-Francois Grenon, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Lori L. Lawrence  
Notary Public