

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3584753

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID K. AHN	01/09/2013
STEVEN ROGERS	01/11/2013
SEAN MOORE	12/31/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CENTRIPETAL NETWORKS, INC.
<b>Street Address:</b>	2251 CORPORATE PARK DRIVE
<b>Internal Address:</b>	SUITE 150
<b>City:</b>	HERNDON
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	20171
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14921718
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	wwooten@bannerwitcoff.com, bwptopat@bannerwitcoff.com
<b>Correspondent Name:</b>	BANNER & WITCOFF, LTD.
<b>Address Line 1:</b>	1100 13TH STREET NW
<b>Address Line 2:</b>	SUITE 1200
<b>Address Line 4:</b>	WASHINGTON, D.C. 20005
<b>ATTORNEY DOCKET NUMBER:</b>	007742.00063
<b>NAME OF SUBMITTER:</b>	WILLIAM E. WOOTEN
<b>SIGNATURE:</b>	/William E. Wooten/
<b>DATE SIGNED:</b>	10/23/2015
<b>Total Attachments: 4</b>	
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source=ExecutedAssignment#page2.tif	
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ASSIGNMENT

WHEREAS, We, David K. Ahn, a resident of Winston-Salem, NC, Steven Rogers, a resident of Leesburg, VA, and Sean Moore, a resident of Hollis, NH (ASSIGNORS), are the inventors of certain inventions and improvements described in the following marked documents:

- ☐ U.S. Provisional Application number \_\_\_\_\_, filed on \_\_\_\_\_, and having the title \_\_\_\_\_
- ☒ U.S. patent application no. 13/739,178, filed on even date herewith, and having the title **RULE SWAPPING IN A PACKET NETWORK**

and WHEREAS

**Centripetal Networks, Inc.**  
**41378 Raspberry Drive**  
**Leesburg, VA 20176-7826**  
**USA**

ASSIGNEE, desires to acquire the entire right, title and interest in and to the said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

We hereby assign, to the above named ASSIGNEE, its successors, assigns and legal representatives (NOMINEES) the entire right, title and interest in and to said application, inventions and improvements throughout the world and to any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And we covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

And we further covenant and agree that we will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and we agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of the ASSIGNEE or its NOMINEES;

And we authorize the ASSIGNEE or its NOMINEES to file in our name or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and we authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said ASSIGNEE or its NOMINEES any and all LETTERS PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: 1-9-2013

Inventor: 

**David K. Ahn**

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_

**Steven Rogers**

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_

**Sean Moore**

LAW OFFICES  
BANNER & WITCOFF, LTD.  
1100 13<sup>th</sup> STREET, N.W., Ste. 1200  
WASHINGTON, D.C. 20005-4051  
(202) 824-3000

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Date: \_\_\_\_\_

Inventor: \_\_\_\_\_

David K. Ahn

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_

Steven Rogers

Date: 31-Dec-2012

Inventor: 

Sean Moore

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And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
**David K. Ahn**

Date: Jan 11, 2013

Inventor:  \_\_\_\_\_  
**Steven Rogers**

Date: \_\_\_\_\_

Inventor: \_\_\_\_\_  
**Sean Moore**

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