503309963 05/15/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3356582

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID K. AHN	03/04/2015
PETER P. GEREMIA	02/11/2015
PIERRE MALLETT III	02/18/2015
SEAN MOORE	03/04/2015
ROBERT T. PERRY	02/10/2015

RECEIVING PARTY DATA

Name:	CENTRIPETAL NETWORKS, INC.
Street Address: 2251 CORPORATE PARK DRIVE	
Internal Address:	SUITE 150
City:	HERNDON
State/Country:	VIRGINIA
Postal Code:	20171

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14714207

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 202-824-3000

Email: wwooten@bannerwitcoff.com
Correspondent Name: BANNER & WITCOFF, LTD.
Address Line 1: 1100 13TH STREET, N.W.

Address Line 2: SUITE 1200

Address Line 4: WASHINGTON, D.C. 20005-4051

ATTORNEY DOCKET NUMBER: 007742.00048

NAME OF SUBMITTER: WILLIAM E. WOOTEN

SIGNATURE: /William E. Wooten/

DATE SIGNED: 05/15/2015

PATENT 503309963 REEL: 035653 FRAME: 0988

Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif

PATENT REEL: 035653 FRAME: 0989

ASSIGNMENT

WHEREAS, We, David K. Ahn, a resident of Winston-Salem, NC, Peter P. Geremia, a residen
of Portsmouth, NH, Pierre Mallett III, a resident of Herndon, VA, Sean Moore, a resident of Hollis, NH
and Robert T. Perry, a resident of Ashburn, VA (ASSIGNORS), are the inventors of certain inventions
and improvements described in the following marked documents:

	U.S.	Provisi	ional Applica	ation nur	nber 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		, fi	led on			_, and	l having	g the
\boxtimes	U.S.	Patent	Application	Serial N	o	14/618,96	7,	filed	Feb	nuary 10), 2015	_, and	having	the

and WHEREAS

Centripetal Networks, Inc. 2251 Corporate Park Drive, Suite 150 Herndon, VA 20171 USA

title CORRELATING PACKETS IN COMMUNICATIONS NETWORKS

ASSIGNEE, desires to acquire the entire right, title, and interest in and to 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 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: 3-4-2015	Inventor: David K. Ahn
Date:	Inventor:Peter P. Geremia
Date:	Inventor: Pierre Mallett III
Date:	Inventor: Sean Moore
Date:	Inventor: Robert T. Perry

LAW OFFICES

BANNER & WITCOFF, LTD.
1100 13th Street N.W., Suite 1200
Washington, D.C. 20005-4051
(202) 824-3000

Page 2 of 2

ASSIGNMENT

WHEREAS, We, David K. Ahn, a resident of Winston-Salem, NC, P	Peter P. Geremia, a resident
of Portsmouth, NH, Pierre Mallett III, a resident of Herndon, VA, Sean Moor	e, a resident of Hollis, NH,
and Robert T. Perry, a resident of Ashburn, VA (ASSIGNORS), are the inve	entors of certain inventions
and improvements described in the following marked documents:	

	U.S. Provisional Application number	al Application number, filed on			
-	title				
\boxtimes		14/618,967 , filed <u>February 10, 201</u>	5, and having the		
	title CORRELATING PACKETS IN C	COMMUNICATIONS NETWORKS			

and WHEREAS

Centripetal Networks, Inc. 2251 Corporate Park Drive, Suite 150 Herndon, VA 20171 USA

ASSIGNEE, desires to acquire the entire right, title, and interest in and to 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 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: <u>3/11/2015</u>	Inventor Peter P. Gerema
Date:	Inventor:Pierre Mallett III
Date:	Inventor: Sean Moore
Date:	Inventor: Robert T. Perry

LAW OFFICES
BANNER & WITCOFF, LTD.
1100 13th Street N.W., Suite 1200

Washington, D.C. 20005-4051 (202) 824-3000

Page 2 of 2

ASSIGNMENT

WHEREAS, We, David K. Ahn, a resident of Winston-Salem, NC, Peter P. Geremia, a resident	ent
of Portsmouth, NH, Pierre Mallett III, a resident of Herndon, VA, Sean Moore, a resident of Hollis, N	Н,
and Robert T. Perry, a resident of Ashburn, VA (ASSIGNORS), are the inventors of certain inventio	ns
and improvements described in the following marked documents:	

	U.S. Provisional Application number title	, filed	l on	, £	ınd having the
\boxtimes	U.S. Patent Application Serial No			<u>2015</u> , a	nd having the

and WHEREAS

Centripetal Networks, Inc. 2251 Corporate Park Drive, Suite 150 Herndon, VA 20171 USA

ASSIGNEE, desires to acquire the entire right, title, and interest in and to 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;

Page 1 of 2

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 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:	Inventor: Peter P. Geremia
Date: 2/18/15	Inventor: Nallett III
Date:	Inventor:
Date: 2/10/2015	Inventor: Robert T. Perry

LAW OFFICES

BANNER & WITCOFF, LTD. 1100 13th Street N.W., Suite 1200 Washington, D.C. 20005-4051 (202) 824-3000

Page 2 of 2

and having the

ASSIGNMENT

W	HEREAS,	We, David I	C. Ahn, a	resident	of Winst	on-Salem	, NC, P	eter P. (Geremia,	a resident
of Portsm	outh, NH, P	ierre Mallett	i III, a res	ident of F	Ierndon,	VA, Sea	n Moore	e, a resid	dent of H	Iollis, NH,
and Rober	rt T. Perry,	a resident of	f Ashburn	, VA (A	SSIGNO	RS), are	the inve	ntors of	certain	inventions
and impro	vements de	scribed in the	e followin	g marked	docume	nts:				

اسسا	C.M. Tro anicum arbanoment memora	TALK	V(3 1/31	and maring and
	title	***************************************	***************************************	
\boxtimes	U.S. Patent Application Serial No.	14/618,967 , filed _	February 10, 2015,	and having the
	title CORRELATING PACKETS IN	COMMUNICATIONS	NETWORKS	

filed on

and WHEREAS

TIS Provisional Annication number

Centripetal Networks, Inc. 2251 Corporate Park Drive, Suite 150 Herndon, VA 20171 USA

ASSIGNEE, desires to acquire the entire right, title, and interest in and to 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 sequest 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, investions, and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted:

And we haveby grant the law firm of Banner & Wiscott 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:	Învestor: Peter F. Geremia
Date:	Investor: Pierre Mallett III
Date: <u>174-1411/14-24</u> 15	tavenus: Jean Moore
Daser	Inventor: Robert T. Perry

LAW OFFICES

BASSER & WITCHF, CID.

108 108 Street N.W., Saite 1200

Washington, D.C. 2003-4051

(202) 824-3000

Page 2 of 2

PATENT REEL: 035653 FRAME: 0997