

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JEFFREY PAUL HARRANG	01/16/2013
JOHN MICHAEL BURNETTE	01/22/2013
DAVID B. GIBBONS	01/23/2013
RECEIVING PARTY DATA	
Name:	OPANGA NETWORKS, INC.
Street Address:	100 S KING ST., SUITE 525
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98104
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13843875
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ATTORNEY DOCKET NUMBER:	A270AA-002510US
NAME OF SUBMITTER:	STEVE Y. CHO
SIGNATURE:	/Steve Y. Cho/
DATE SIGNED:	05/06/2014
Total Attachments: 4	
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source=2014_05_06_ASSGMT_A270AA-002510US#page4.tif	

PATENT

ASSIGNMENT

WHEREAS, we, JEFFREY PAUL HARRANG, JOHN MICHAEL BURNETTE, and DAVID B. GIBBONS (hereinafter referred to as ASSIGNORS), having mailing addresses of 24239 NE 7th Place, Sammamish, WA 98074, 2735 NE 94th Street, Seattle, WA 98115, and 6615 223rd Avenue NE, Redmond, WA 98053, respectively, are the joint inventors of an invention entitled "METHOD AND SYSTEM FOR COOPERATIVE CONGESTION DETECTION IN CELLULAR NETWORKS," at least in part disclosed in a provisional patent application filed on October 25, 2012 in the United States Patent and Trademark Office, and assigned Application No. 61/718,526, and are the sole owners of record of said provisional application;

WHEREAS, OPANGA NETWORKS, INC. (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington, having a place of business at 1201 Third Avenue, Suite 2200, Seattle, Washington 98101-3045, is desirous of acquiring the entire right, title and interest in and to said invention, said provisional application, and any and all letters patent that may be granted therefor in the United States and foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, the entire right, title and interest in and to said invention, said provisional application, and any and all letters patent in the United States of America and its territorial possessions and in any and all foreign countries which may be granted for said invention or which may result from said provisional application or any patent application converted from or claiming the benefit of said provisional application, including any and all divisions, reissues and continuations thereof and the right to file foreign applications for said invention directly in the name of ASSIGNEE and to claim priority rights deriving from said provisional application to which said foreign applications or any other patent applications are entitled by virtue of international convention, treaty or otherwise. Said invention, said provisional application, and any and all letters patent granted for said invention or resulting from said provisional application or any patent application converted from or claiming the benefit of said provisional application, to be held and enjoyed by ASSIGNEE for its use and benefit and by its successors and assigns for their use and benefit as

fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made.

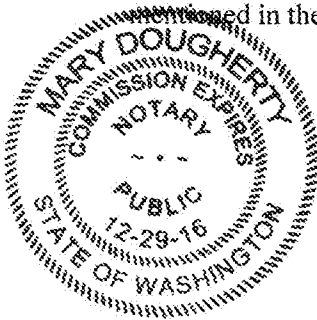
ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue to ASSIGNEE all letters patent granted for said invention or resulting from said provisional application or any patent application converted from or claiming the benefit of said provisional application. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention or resulting from said provisional application or any patent application converted from or claiming the benefit of said provisional application, for litigation regarding said letters patent, or for the purpose of protecting title to said invention, said provisional application or any patent application converted from or claiming the benefit of said provisional application, or any letters patent therefor.

01-16-2013
Date

Jeff Harrang
JEFFREY PAUL HARRANG

State of Washington)
County of King) ss.

I certify that I know or have satisfactory evidence JEFFREY PAUL HARRANG is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



Dated Jan 24, 2013
Signature of *Mary Dougherty*
Notary Public
Printed Name Mary Dougherty
My appointment expires 12/29/16

Date

JOHN MICHAEL BURNETTE

fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made.

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue to ASSIGNEE all letters patent granted for said invention or resulting from said provisional application or any patent application converted from or claiming the benefit of said provisional application. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention or resulting from said provisional application or any patent application converted from or claiming the benefit of said provisional application, for litigation regarding said letters patent, or for the purpose of protecting title to said invention, said provisional application or any patent application converted from or claiming the benefit of said provisional application, or any letters patent therefor.

Date

JEFFREY PAUL HARRANG

State of Washington)

)

ss.

County of King)

I certify that I know or have satisfactory evidence JEFFREY PAUL HARRANG is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated _____

Signature of _____

Notary Public _____

Printed Name _____

My appointment expires _____

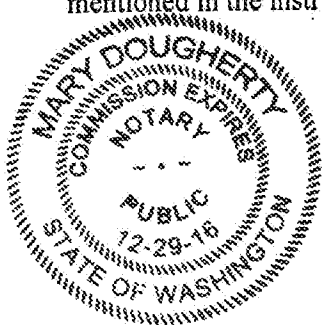
Date

JOHN MICHAEL BURNETTE

State of Washington)
County of King)

ss.

I certify that I know or have satisfactory evidence JOHN MICHAEL BURNETTE is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



Dated Jan 24, 2013
Signature of Mary Dougherty
Notary Public
Printed Name Mary Dougherty
My appointment expires 12/29/2016

1-23-13

Date

D.B. Gibbons
DAVID B. GIBBONS

State of Washington)
County of King)

ss.

I certify that I know or have satisfactory evidence that DAVID B. GIBBONS is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



Dated Jan 23, 2013
Signature of Mary Dougherty
Notary Public
Printed Name Mary Dougherty
My appointment expires 12/29/13