PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Jeffrey Paul Harrang | 06/01/2010 |
| David B. Gibbons | 06/01/2010 |

RECEIVING PARTY DATA

| Name: | Opanga Networks, Inc. |
|-------------------|-----------------------|
| Street Address: | 1201 Third Avenue |
| Internal Address: | Suite 2200 |
| City: | Seattle |
| State/Country: | WASHINGTON |
| Postal Code: | 98101 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12789065 |

CORRESPONDENCE DATA

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Address Line 4: Seattle, WASHINGTON 98101

| ATTORNEY DOCKET NUMBER: | 80194-18US0 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | Michael J. Donohue |

Total Attachments: 3

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PATENT REEL: 024693 FRAME: 0313 source=80194-18US0-Assignment#page2.tif source=80194-18US0-Assignment#page3.tif

PATENT REEL: 024693 FRAME: 0314

US Patent Appl. No. 12/789,065 PCt Appl. No. PCT/US2010/036486

ASSIGNMENT

WHEREAS, we, JEFFREY PAUL HARRANG and DAVID B. GIBBONS (hereinafter referred to as ASSIGNORS), having mailing addresses of 24239 NE 7th Place, Sammamish, WA 98074 and 6615 223rd Avenue NE, Redmond, WA 98053, respectively, are the joint inventors of an invention entitled "SYSTEMS AND METHODS FOR OPTIMIZING CHANNEL RESOURCES BY COORDINATING DATA TRANSFERS BASED ON DATA TYPE AND TRAFFIC," as described and claimed in the specification for which an application for United States letters patent was filed on May 27, 2010 and assigned Application No. 12/789,065, and as described and claimed in the specification for which a PCT application was filed on May 27, 2010 and assigned Application No. PCT/US2010/036486. This application claims the benefit of Provisional Application No. 61/235,297, filed on August 19, 2009.

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 the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been

DWT 14772865v1 0080194-000002

PATENT REEL: 024693 FRAME: 0315 made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. 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, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

| 6/1/10 | | | Jeff Bre |
|---------------------|---|-------------|----------------------|
| 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.

| DOUGHAMAN AND AND AND AND AND AND AND AND AND A | Dated |
|---|------------------|
| <i>Q</i> /1 /10 Date | 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

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instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



| Dated | 0-1-2010 |
|-----------------|----------------------------|
| Signature of | |
| Notary Public _ | 11 lay Loyherty |
| Printed Name | Mary Doughes |
| My appointmen | t expires $12 - 29 - 2012$ |

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RECORDED: 07/15/2010