

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JEFFREY M. AYARS</td> <td>06/16/1999</td> </tr> <tr> <td>GREGORY J. CONKLIN</td> <td>06/16/1999</td> </tr> <tr> <td>GARY S. GREENBAUM</td> <td>06/17/1999</td> </tr> <tr> <td>ALAN F. LIPPMAN</td> <td>06/24/1999</td> </tr> <tr> <td>BRADLEY D. HEFTA-GAUB</td> <td>06/23/1999</td> </tr> <tr> <td>DALE R. STAMMEN</td> <td>06/23/1999</td> </tr> </tbody> </table>		Name	Execution Date	JEFFREY M. AYARS	06/16/1999	GREGORY J. CONKLIN	06/16/1999	GARY S. GREENBAUM	06/17/1999	ALAN F. LIPPMAN	06/24/1999	BRADLEY D. HEFTA-GAUB	06/23/1999	DALE R. STAMMEN	06/23/1999
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>RealNetworks, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>2601 Elliott Avenue, Suite 1000</td> </tr> <tr> <td>City:</td> <td>Seattle</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98121</td> </tr> </table>		Name:	RealNetworks, Inc.	Street Address:	2601 Elliott Avenue, Suite 1000	City:	Seattle	State/Country:	WASHINGTON	Postal Code:	98121				
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PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7885340</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7885340										
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Patent Number:	7885340														
CORRESPONDENCE DATA															
<p>Fax Number: (206)217-2201          Phone: 2062172200          Email: patents@aeonlaw.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Adam L.K. Philipp          Address Line 1: 1218 3rd Avenue, Suite 2100          Address Line 4: Seattle, WASHINGTON 98101</p>															
ATTORNEY DOCKET NUMBER:	REAL-2010221 (RN015C1)														

NAME OF SUBMITTER:

Kyle H. Flindt

Total Attachments: 4

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Application No.: 09/300,139  
Filing Date: April 27, 1999

PATENT  
Client Code: REALNET.009A  
Page 1

ASSIGNMENT

WHEREAS, We, Gary S. Greenbaum, a United States citizen, residing at <sup>2324 1st Ave, #402</sup> ~~2922 Western Avenue, #727~~, Seattle, WA ~~98105~~; Jeffrey M. Ayars, 35915 - 23rd Pl. So. Federal Way, WA 98003; Gregory J. Conklin, 1415 - 2nd Avenue, #1006, Seattle, WA 98101; Alan F. Lippman, 3851 E. Boston, Seattle, WA 98112; Bradley D. Hefta-Gaub, 4118 Whitman Avenue No., Seattle, WA 98103; and Dale R. Stammes, 5626 - 42nd Avenue SW, Seattle, WA 98136, have invented certain new and useful improvements in a SYSTEM AND METHOD FOR GENERATING MULTIPLE SYNCHRONIZED ENCODED REPRESENTATIONS OF MEDIA DATA for which we have filed an application for Letters Patent in the United States, Application No. 09/300,139, Filing Date April 27, 1999;

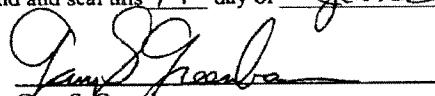
AND WHEREAS, RealNetworks, Inc. (hereinafter "ASSIGNEE"), a Washington Corporation, with its principal place of business at 1111 Third Avenue, Suite 2900, Seattle, WA 98101, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

GARY S. GREENBAUM

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17<sup>th</sup> day of June 1999

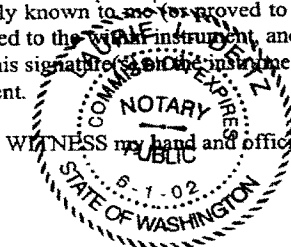
  
Gary S. Greenbaum


STATE OF WASHINGTON ]  
COUNTY OF KING ] ss.

On 6/17/99, before me, LAURIE L DUTZ, personally appeared Gary S. Greenbaum personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



  
Notary Signature LAURIE L DUTZ

PATENT  
REEL: 010084 FRAME: 0182

PATENT  
REEL: 027688 FRAME: 0732

Application No.: 09/300,139  
Filing Date: April 27, 1999

PATENT  
Client Code: REALNET.009A  
Page 2

JEFFREY M. AYARS

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16<sup>th</sup> day of June 1999

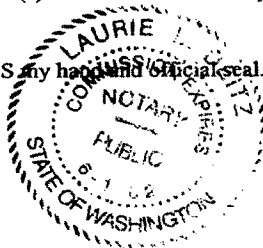
Jeffrey M. Ayars  
Jeffrey M. Ayars

STATE OF WASHINGTON  
COUNTY OF KING ] ss.

On 6/16/99, before me, LAURIE L. DETTZ, personally appeared Jeffrey M. Ayars personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Laurie L. Dettz  
Notary Signature LAURIE L. DETTZ

GREGORY J. CONKLIN

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16<sup>th</sup> day of June 1999

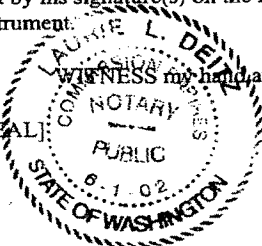
Gregory J. Conklin  
Gregory J. Conklin

STATE OF WASHINGTON  
COUNTY OF KING ] ss.

On 6/16/99, before me, LAURIE L. DETTZ, personally appeared Gregory J. Conklin personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Laurie L. Dettz  
Notary Signature LAURIE L. DETTZ

PATENT  
REEL: 010084 FRAME: 0183

PATENT  
REEL: 027688 FRAME: 0733

Application No.: 09/300,139  
Filing Date: April 27, 1999

PATENT  
Client Code: REALNET.009A  
Page 3

ALAN F. LIPPMAN

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 27<sup>th</sup> day of June 1999.

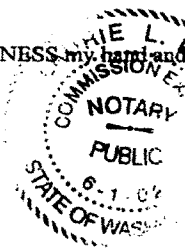
Alan F. Lippman  
Alan F. Lippman

STATE OF WASHINGTON ]  
COUNTY OF KING ] ss.

On June 24, 1999, before me, LAURIE L. DEITZ, personally appeared Alan F. Lippman personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Laurie L. Deitz  
Notary Signature LAURIE L. DEITZ

BRADLEY D. HEFTA-GAUB

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 23 day of June 1999

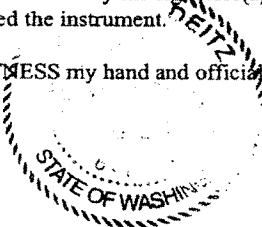
Bradley D. Hefta-Gaub  
Bradley D. Hefta-Gaub

STATE OF WASHINGTON ]  
COUNTY OF KING ] ss.

On June 23, 1999, before me, LAURIE L. DEITZ, personally appeared Bradley D. Hefta-Gaub personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Laurie L. Deitz  
Notary Signature LAURIE L. DEITZ

PATENT  
REEL: 010084 FRAME: 0184

PATENT  
REEL: 027688 FRAME: 0734

Application No.: 09/300,139  
Filing Date: April 27, 1999

PATENT  
Client Code: REALNET.009A  
Page 4

DALE R. STAMMEN

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 23 day of June 1999

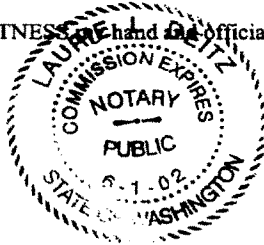
Dale R. Stammen  
Dale R. Stammen

STATE OF WASHINGTON  
COUNTY OF KING ] ss.

On June 23, 1999, before me, LAURIE L. DEITZ, personally appeared Dale R. Stammen personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Laurie L. Deitz  
Notary Signature

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060399

RECORDED: 07/12/1999

PATENT  
REEL: 010084 FRAME: 0185

RECORDED: 02/10/2012

PATENT  
REEL: 027688 FRAME: 0735