

PATENT ASSIGNMENT

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 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| Rahul Argarwal | 12/02/1998 |
| Jeffrey M. Ayars | 12/02/1998 |
| Bradley D. Hefta-Gaub | 12/02/1998 |
| Gary S. Greenbaum | 12/02/1998 |
| Alan F. Lippman | 12/07/1998 |
| Sujal M. Patel | 12/04/1998 |
| Dale R. Stammen | 12/02/1998 |
| Philip Rosedale | 12/02/1998 |
| Bryan Vergato | 12/10/1998 |

RECEIVING PARTY DATA

| | |
|-----------------|---------------------|
| Name: | RealNetworks, Inc. |
| Street Address: | 2601 Elliott Avenue |
| City: | Seattle |
| State/Country: | WASHINGTON |
| Postal Code: | 98121 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11975364 |

CORRESPONDENCE DATA

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CH \$40.00 11975364

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ATTORNEY DOCKET NUMBER:

2635-31-6

NAME OF SUBMITTER:

John M. Janneway

Total Attachments: 6

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ASSIGNMENT

WHEREAS, We, **Rahul Agarwal**, a citizen India, residing at 14040 15th Avenue NE #32E, Seattle, Washington 98125, **Jeffrey M. Ayars**, a United States citizen, residing at 35915 23rd Place South, Federal Way, Washington 98003, **Bradley D. Hefta-Gaub**, a United States citizen, residing at 4118 Whitman Avenue North, Seattle, Washington 98103, **Gary S. Greenbaum**, a United States citizen, residing at 2922 Western Avenue #727, Seattle, Washington 98121, **Alan F. Lippman**, a United States citizen, residing at 3851 East Boston, Seattle, Washington 98112, **Sujal M. Patel**, a United States citizen, residing at 1221 1st Avenue #1311, Seattle, Washington 98101, **Dale R. Stammen**, a citizen of Canada, residing at 5626 42nd Avenue SW, Seattle, Washington 98136, **Philip Rosedale**, a United States citizen, residing at 1127 Grand Avenue, Seattle, Washington 98122, and **Bryan Vergato**, a United States citizen, 523 11th Avenue East #102, Seattle, Washington 98102, have invented certain new and useful improvements in a **SYSTEM AND METHOD FOR PROVIDING RANDOM ACCESS TO A MULTIMEDIA OBJECT OVER A NETWORK** for which we have filed an application for Letters Patent in the United States, Application Serial No. **09/167,521**, filed **October 6, 1998**;

AND WHEREAS, RealNetworks, Inc. (hereinafter "ASSIGNEE"), a Washington Corporation, with its principal place of business at 1111 Third Avenue, Suite 2900, Seattle, Washington 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.

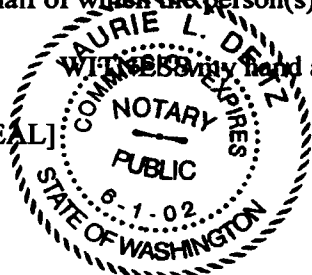
(continued on page 2)

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of December
1998.

Rahul Agarwal
Rahul Agarwal

STATE OF WASHINGTON }
COUNTY OF KING } ss.

On December 2, 1998, before me, LAURIE L. DETTZ, personally appeared **Rahul Agarwal** 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]

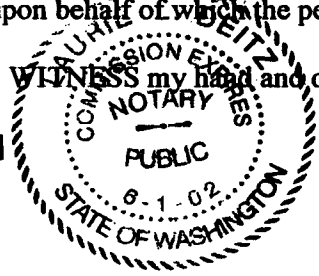
Laurie L. Dettz
Notary Signature LAURIE L. DETTZ

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of December
1998.

Jeffrey M. Ayars
Jeffrey M. Ayars

STATE OF WASHINGTON }
COUNTY OF KING } ss.

On December 2, 1998 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

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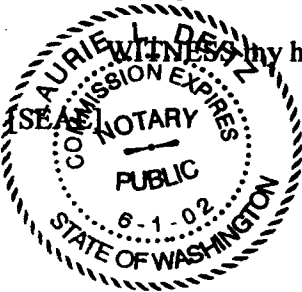
1998. IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of December



Bradley D. Hefta-Gaub

STATE OF _____ }
COUNTY OF _____ } ss.

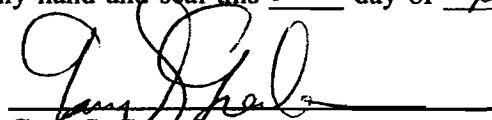
On December 2, 1998 before me, LAURIE L. DEITZ, personally appeared **Bradley D. Hefta-Gaub** personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in 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.




LAURIE L. DEITZ
Notary Signature

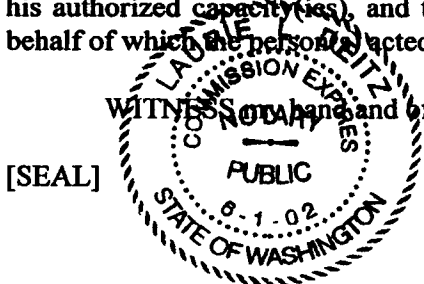
1998. IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of December



Gary S. Greenbaum

STATE OF WASHINGTON }
COUNTY OF KING } ss.

On December 2, 1998, before me, LAURIE L. DEITZ, 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.




LAURIE L. DEITZ
Notary Signature

(continued on page 4)

1998 IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of December

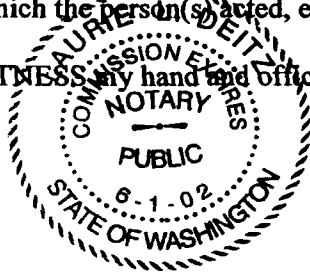
Alan F. Lippman
Alan F. Lippman

STATE OF _____ }
COUNTY OF _____ } ss.

On December 7, 1998 before me, LAURIE L. DETZ, 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. Detz
Notary Signature LAURIE L. DETZ

1998 IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of December

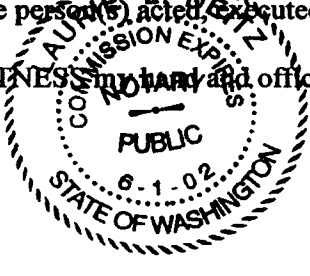
Sujal M. Patel
Sujal M. Patel

STATE OF WASHINGTON }
COUNTY OF KING } ss.

On December 4, 1998 before me, LAURIE L. DETZ, personally appeared Sujal M. Patel 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.

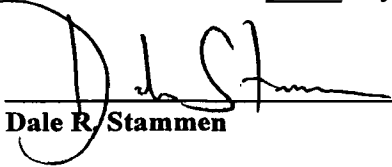
[SEAL]



Laurie L. Detz
Notary Signature LAURIE L. DETZ

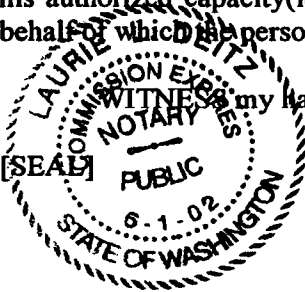
(continued on page 5)

1998. IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of December


Dale R. Stammen

STATE OF WASHINGTON }
COUNTY OF KING } ss.

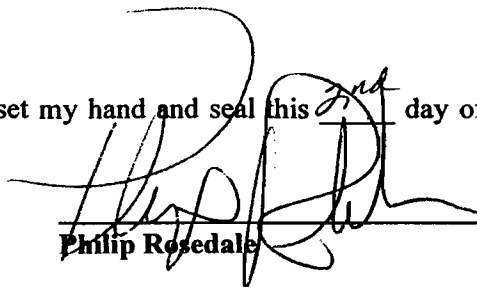
On December 2, 1998, before me, LAURIE L. DEITZ, personally appeared Dale R. Stammen personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized 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.

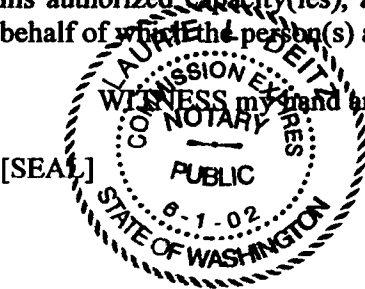

Notary Signature LAURIE L. DEITZ

1998. IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2nd day of December

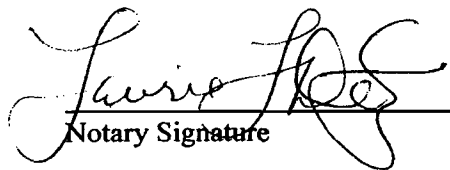

Philip Rosedale

STATE OF WASHINGTON }
COUNTY OF KING } ss.

On December 2, 1998, before me, LAURIE L. DEITZ, personally appeared Philip Rosedale 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.


Notary Signature LAURIE L. DEITZ

(continued on page 6)

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 10th day of November
1998

B. Vergato
Bryan Vergato

STATE OF WASHINGTON }
 } ss.
COUNTY OF KING }

On Nov. 10, 1998, before me, LAURIE L. DEITZ, personally appeared **Bryan Vergato** 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