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102410507 1.) Alain Hamel 2.) Haif-eng Ping 2.) Haif-eng Ping 2.) Haif-eng Ping 2.) Haif-eng Ping 3. Additional name(s) of conveying party(ies) attached? (1) Yes (X) No Nature of conveyance: (2) Assignment (2) Merger (3) Security Agreement (4) Change of Name (5) Other: (7) Execution Date: (If multiple assignors, list execution tes in numerical order corresponding to numbers indicated in above) 1.) March 27, 2003 2.) March 11, 2003 Name and address of party to whom correspondence concerning document should be mailed: (8) Encolosed (9) Authorized to be charged to deposit account None Street Address: Fourteenth Floor Street Address: Pourcenth Floor Street Address of party to whom correspondence on the party of	1.) Alain Hamel 2.) Haif-eng Ping Additional name(s) of conveying party(ies) attached? Additional name(s) of conveyance: Additional name(s) of conveyance: Additional name(s) of conveyance: Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party(ies) attached? Additional name(s) of receiving party (ies) attached? Additional name(s) of receiving party (ies) attached? Additional name(s) of receiving party (ies) attached? Additional name(s) of receivin	Name of conveying party(ies): (If multiple a	f receiving party(ies):
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260. Elliof Avenue, Suite 1000 Scattle, Washington 98121 Additional name(s) of conveying party(ies) attached? () Yes (X) No Nature of conveyance: (Y) Assignment () Merger () Security Agreement () Change of Name () Other: Execution Date: (If multiple assignors, list execution tes in numerical order corresponding to numbers indicated in above) 1.) March 27, 2003 2.) March 11, 2003 Name and address of party to whom correspondence concerning document should be mailed: Name Michael S. Okamoto KNOBBE, MARTENS, OLSON & BEAR, LLP Customer No. 20,995 Internal Address: Fourteenth Floor Street Address: Question Floor Street Address: 2040 Main Street City: Irvine State: CA. ZIP: 92614 Attorney's Docket No.: REALNET.183A Total number of applications and patents involved: 1 Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document. Michael S. Okamoto Name of Person Signing Signature 260. Elliof Avenue, Suite 1000 Scattle, Washington 98121 Additional name(s) of receiving party(ies) attached? () Application number(s) or Patent number(s): (X) Patent Application No.: 10/354,439 — Filing Date: January 29, 2003 () Patent No.: Issue Date: (X) Patent Application No.: 10/354,439 — Filing Date: January 29, 2003 () Patent No.: Issue Date: (X) Enclosed () Authorized to be charged to deposit account Number: 11-1410 Streat Address: Fourteenth Floor Streat Address: Gardenth Floor Streat Address of party to whom correspondence on carrier floor Streat	2601 Elliot Avenue, Suite 1000 Seattle, Washington 98121 Additional name(s) of receiving party(ies) attached? (1) Yes (X) No Nature of conveyance: 4. Application number(s) or Patent number(s): (2) Assignment (1) Application(s) filed herewith Execution Date(s): (3) Seattly Agreement (1) Change of Name (1) Other: Execution Date: (If multiple assignors, list execution s in numerical order corresponding to numbers indicated in ove) 1.) March 27, 2003 2.) March 11, 2003 Name and address of party to whom correspondence concerning document should be mailed: (N) Enclosed (1) Authorized to be charged to deposit account Extreet Address: 2040 Main Street City: Irvine State: CA ZIP: 92614 Attorney's Docket No.: REALNET.183A Total number of applications and patents involved: 1 Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document. Michael S. Okamoto Stattle, Washington 98121 Additional numbers, of receiving party(ies) attached? (2) Application number(s) or Patent number(s): (3) Application number(s) or Patent number(s): (3) Patent Application No. 10/354,430 (3) Patent No.: 19/354,430 (4) Patent No.: 19/354,430 (5) Patent No.: 19/354,430 (6) Patent No.: 19/354,430 (7) Patent No.: 19/354,430 (8) Patent No.: 19/354,430 (9) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (2) Patent No.: 19/354,430 (3) Patent No.: 19/354,430 (4) Patent No.: 19/354,430 (5) Patent No.: 19/354,430 (7) Patent No.: 19/354,430 (8) Patent No.: 19/354,430 (9) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (2) Patent No.: 19/354,430 (3) Patent No.: 19/354,430 (4) Patent No.: 19/354,430 (5) Patent No.: 19/354,430 (7) Patent No.: 19/354,430 (8) Patent No.: 19/354,430 (9) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (1) Patent No.: 19/354,430 (2) Patent No.: 19/354,430 (3) Patent No.: 19/354,430 (4) Pa	1. N. Aleka Henrel	Name: REALNET WORKS, INC.
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U.S. Patent and Trademark Office Attn: Assignment Division Crystal Gateway-4 1213 Jefferson Davis Highway, Suite 320 Arlington, VA 22202

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PATENT REEL: 013911 FRAME: 0851

Client Code: REALNET.183A Application No.: 10/354,439 Filing Date: January 29, 2003 Page 1

ASSIGNMENT

WHEREAS, We, Alain Hamel, a Canadian citizen, residing at 13450 456th Place SE, North Bend, Washington 98045 and HaiFeng Ping, a Chinese citizen, residing at 5907 Oberland Place NW, Issaquah, Washington 98027, have invented certain new and useful improvements in a SYSTEMS AND METHODS FOR SELECTING BUFFERING TIME FOR MEDIA DATA for which we have filed an application for Letters Patent in the United States, with Application No. 10/354,439, filed on January 29, 2003;

AND WHEREAS, REALNETWORKS, INC. (hereinafter "ASSIGNEE"), a Washington Corporation, with its principal place of business at 2601 Elliot Avenue, Suite 1000, Seattle Washington 98121, 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 provisional applications relating thereto, 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, its 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.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 27 day of March

STATE OF WATER COUNTY OF KING

On March 27, 2005, before me, Julie C. Chappell, personally appeared Alain Hamel personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and offic

PATENT

REEL: 013911 FRAME: 0852

[SEAL]

PATENT

Application No.: 10/354,439 Client Code: REALNET.183A Filing Date: January 29, 2003 Page 2

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 1/th day of Morely, 2003.

Hair eng Ping

STATE OF LOA

COUNTY OF KING

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On Merch 11, 2023, before me, Jule C. Chappell, personally appeared HaiFeng Ping personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

RECORDED: 04/07/2003

[SEAL]

C CHAPON WOTARY RES NOTARY RES NO

Notary Signature

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