

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4318434

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
REALTIME DATA LLC		03/07/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	REALTIME ADAPTIVE STREAMING LLC	
<b>Street Address:</b>	1828 ESE LOOP 323	
<b>City:</b>	TYLER	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	75701	
<b>PROPERTY NUMBERS Total: 14</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	8054879	
Patent Number:	7386046	
Patent Number:	8073047	
Patent Number:	8553759	
Patent Number:	8934535	
Patent Number:	8867610	
Patent Number:	8929442	
Application Number:	15382263	
Application Number:	14876276	
Application Number:	14733565	
Application Number:	12132399	
Application Number:	60268394	
Application Number:	12684408	
Application Number:	14577286	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(310)826-6991	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	3108267474	
<b>Email:</b>	RMIRZAIE@RAKLAW.COM	



**Correspondent Name:** REZA MIRZAIE  
**Address Line 1:** 12424 WILSHIRE BLVD. 12TH FL.  
**Address Line 4:** LOS ANGELES, CALIFORNIA 90025

<b>NAME OF SUBMITTER:</b>	REZA MIRZAIE
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<b>SIGNATURE:</b>	/REZA MIRZAIE/
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<b>DATE SIGNED:</b>	03/14/2017
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**Total Attachments: 4**

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## Patent Assignment

WHEREAS, **Realtime Data LLC**, a New York limited liability company, having a place of business at **66 Palmer Avenue, Suite 27, Bronxville, New York 10708** (hereinafter, "**Assignor**"), is the sole and exclusive owner of the entire right, title and interest for the United States and all foreign countries, for any and all improvements which are disclosed in the applications for United States Letters Patent as provided in **Schedule A**, and for said applications and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States or foreign countries on said improvements (the "**Patent Rights**");

WHEREAS, **Realtime Adaptive Streaming LLC**, a Texas limited liability company, having a place of business at **1828 ESE Loop 323, Tyler, Texas 75701** (hereinafter, "**Assignee**"), desires to acquire the full and exclusive right for the Patent Rights and all documents and things relating to the conception, reduction to practice and/or practice of the Patent Rights (the "**Related Documents**") and the entire right, title and interest in and to said Patent Rights including, without limitation, patents, applications, divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights, including future inventions or improvements, from any previously filed applications under the International Agreement for the Protection of Industrial property, or other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

NOW, THEREFORE, in consideration of the sum of Ten U.S. Dollars (\$10 USD), the receipt whereof is hereby acknowledged, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, and transfers to Assignee, its successors and assigns, fully and forever, Assignor's entire right, title, and interest in and to the Patent Rights and Related Documents in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest, including the right to sue for past infringement, and to collect for all past, present and future damages if any, and all rights pursuant to 35 U.S.C. §154, in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possession and in any and all foreign countries and in and to any and all divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, and any other applications claiming priority thereto, including future inventions or improvements.

In further good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby agrees that (i) Assignee may apply for and receive Letters Patent for said improvements in its own name; (ii) when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, Assignor will execute all divisional, continuing, substitute, renewal, reissue, and all other patent application on any and said improvements, execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns and legal representatives, all facts known to Assignor relating to said improvements and the history thereof, and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and (iii) covenants with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by Assignor, and that full right to convey the same as herein expressed is possessed by Assignor.



Assignor agrees to execute all papers necessary in connection with the applications and Letters Patents as above, and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient;

Assignor agrees to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the applications or Letters Patents or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application therefor and to cooperate with the Assignee at Assignee's expense in every reasonable way possible in obtaining evidence and going forward with such interference or patent enforcement act;

Assignor agrees to perform all affirmative acts at Assignee's request and expense that may be necessary to obtain or ensure a grant of a valid patent to the Assignee;

Assignor hereby represents that Assignor has full right and authority to convey the entire interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict therewith, and

Assignor hereby authorizes and requests the Patent Office Officials in the United States and its territorial possessions and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said Assignee as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said Assignee and said Assignee's successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

IN WITNESS WHEREOF, the Parties hereto have signed this Agreement by their duly authorized representatives as of **March 7, 2017** ("Effective Date").

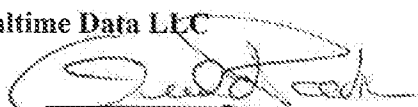
Assignor: **Realtime Data LLC**

SIGNATURE:

NAME:

TITLE:

DATE:

  
Gerald Padian  
President  
3/7/17

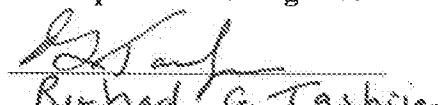
Assignee: **Realtime Adaptive Streaming LLC**

SIGNATURE:

NAME:

TITLE:

DATE:

  
Ruchad G. Tashjian  
Manager  
3/7/17



**SCHEDULE A**

<b>No.</b>	<b>Title</b>	<b>Territory</b>	<b>App. No. Reg. No.</b>	<b>App. Date Reg. Date</b>	<b>Inventor(s)</b>
1	Bandwidth sensitive data compression and decompression	U.S.	8,054,879 12/684,624	11/08/2011	James J. Fallon, Stephen J. McErlain
2	Bandwidth sensitive data compression and decompression	U.S.	7,386,046 10/076,013	6/10/2008	James J. Fallon, Stephen J. McErlain
3	Bandwidth sensitive data compression and decompression	U.S.	8,073,047 12/123,081	12/06/2011	James J. Fallon, Stephen J. McErlain
4	Bandwidth sensitive data compression and decompression	U.S.	8,553,759 13/154,239	10/08/2013	James J. Fallon, Stephen J. McErlain
5	Systems and methods for video and audio data storage and distribution	U.S.	8,934,535 14/033,245	1/13/2015	James J. Fallon, Stephen J. McErlain
6	System and methods for video and audio data distribution	U.S.	8,867,610 14/134,926	10/21/2014	James J. Fallon, Stephen J. McErlain
7	System and methods for video and audio data distribution	U.S.	8,929,442 14/134,933	1/06/2015	James J. Fallon, Stephen J. McErlain
8	System and methods for video and audio data distribution	U.S.	15/382,263	12/16/2016	James J. Fallon, Stephen J. McErlain
9	Video Data Compression Systems	U.S.	14/876,276	10/06/2015	James J. Fallon, Stephen J. McErlain
10	System and Methods for Video and Audio Data Distribution	U.S.	14/733,565	6/08/2015	James J. Fallon, Stephen J. McErlain



11	Bandwidth Sensitive Data Compression and Decompression	U.S.	12/132,399	6/3/2008	James J. Fallon, Stephen J. McErlain
12	Bandwidth Sensitive Data Compression and Decompression	U.S.	60/268,394	2/13/2001	James J. Fallon, Stephen J. McErlain
13	Bandwidth Sensitive Data Compression and Decompression	U.S.	12/684,408	1/08/2010	James J. Fallon, Stephen J. McErlain
14	Video Data Compression Systems	U.S.	14/577,286	12/19/2014	James J. Fallon, Stephen J. McErlain