

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6087449

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)	01/31/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LEONE MEDIA INC.
<b>Street Address:</b>	251 LITTLE FALLS DRIVE
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19808
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	10831960
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)855-8200
<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>	2148558000
<b>Email:</b>	shannon.berger@nortonrosefulbright.com
<b>Correspondent Name:</b>	R. ROSS VIGUET/ NORTON ROSE FULBRIGHT US LLP
<b>Address Line 1:</b>	2200 ROSS AVE., STE. 3600
<b>Address Line 4:</b>	DALLAS, TEXAS 75201
<b>ATTORNEY DOCKET NUMBER:</b>	MEDIAKIND
<b>NAME OF SUBMITTER:</b>	R. ROSS VIGUET
<b>SIGNATURE:</b>	/R. Ross Viguet/
<b>DATE SIGNED:</b>	05/01/2020
<b>Total Attachments: 18</b>	
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## PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Agreement") dated as of January 31, 2019 (the "Effective Date") by and between:

- (i) Telefonaktiebolaget L M Ericsson (publ), a company duly established under the laws of Sweden, with registration number 556016-0680, having its registered office at SE-164 83 Stockholm, Sweden ("Assignor"); and
- (ii) Leone Media Inc., a company incorporated under the laws of Delaware, and having its registered office at 251 Little Falls Drive, Wilmington, DE 19808 ("Assignee").

### WITNESSETH:

WHEREAS, on June 1, 2016, ENVIVIO INC., a corporation organized under the laws of Delaware, transferred and assigned to Assignor certain rights, title, and interests in patents, as evidenced by the Envivio Trademark and Patent Transfer Agreement and Assignment, attached hereto as Exhibit 1;

WHEREAS, Assignor now wishes to transfer its rights in the Assigned Patents (as defined below) to Assignee as further set forth below.

NOW, THEREFORE, in consideration of the foregoing and the mutual promises and agreements contained in this Agreement, and for other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. Assignor hereby transfers, assigns and conveys to Assignee its right, title, and interest throughout the world (under any and all laws and in any and all jurisdictions) in and to all of the patents, patent applications and provisional patent applications set forth on Schedule A attached hereto (collectively, the "Assigned Patents"), in each case, subject to all existing encumbrances. Pursuant to the foregoing assignment, each of the Assigned Patents shall hereafter be for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors and assigns, as fully and entirely as the same would have been held and enjoyed by the applicable Assignor if this Agreement had not been made. The foregoing assignment includes, without limitation, the rights of Assignor, if any, to (A) register or apply for the registration or issuance in all countries and regions of patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for the inventions claimed in the Assigned Patents; (B) prosecute, maintain and defend the Assigned Patents before any public or private agency, office or registrar including by filing reissues, reexaminations, divisions, continuations, continuations-in-part, substitutes, extensions and all other applications and post issue proceedings included in the Assigned Patents; (C) claim priority based on the filing dates of any of the Assigned Patents under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention,

and all other treaties of like purposes; and (D) sue and recover damages or other compensation for past, present or future infringements thereof, the right to sue and obtain equitable relief, including injunctive relief, in respect of such infringements, and the right to fully and entirely stand in the place of the applicable Assignor in all matters related to the Assigned Patents.

2. Authorization. Assignor also hereby expressly authorizes the respective patent office or governmental agency in each and every jurisdiction worldwide (including the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities) (the “**Applicable IP Offices**”) to: (A) issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the Assignor’s interest therein; and (B) record Assignee as the assignee of the Assigned Patents and to deliver to Assignee, and to Assignee’s attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Agreement.

3. Further Assurances. Each party hereby agrees to execute and deliver, and to cause its employees, agents and representatives to execute and deliver, to the other party all necessary documents and take all necessary actions reasonably requested by such party from time to time to confirm or effect the assignments set forth in this Agreement, or otherwise to carry out the purposes of this Agreement, including, without limitation, and by making such employees, agents and representatives, or any such information and documents, reasonably available to the other party the extent necessary in connection with the foregoing, by providing executed originals of short-form assignment agreements for filing or otherwise evidencing the assignments set forth in this Agreement with the Applicable IP Offices; provided, however, that nothing contained herein shall obligate Assignor to incur any out-of-pocket cost or pay any expense in connection therewith.

4. Governing Law. This Agreement shall be governed by the laws of Delaware.

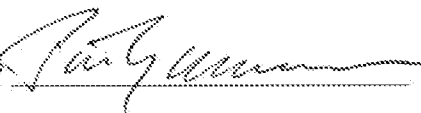
5. General Provisions. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or electronic mail shall be as effective as delivery of a manually executed counterpart of this Agreement. This Agreement may not be supplemented, altered, or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Agreement shall not waive any of its rights under such terms or provisions.

**[Remainder of this page intentionally left blank.]**

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

Assignor:

TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)

By 

Name: Pär Gunnarsson

Title: VP & LSO

By 

Name: Christina Petersson

Title: Head of IPR Legal Affairs

Assignee:

LEONE MEDIA INC.

By   
\_\_\_\_\_

Name: James Koven

Title: President

By \_\_\_\_\_

Name: Andrew Dunn

Title: Vice President


Assignee:

**LEONE MEDIA INC.**

By \_\_\_\_\_

Name: James Koven

Title: President

By  \_\_\_\_\_

Name: Andrew Dunn

Title: Vice President

**Exhibit 1**

**ENVIVIO TRADEMARK AND PATENT TRANSFER AGREEMENT AND  
ASSIGNMENT**

**(see Attached)**



**Schedule A**

**Assigned Patents**

LM Ericsson							
<u>Ref No.</u>	<u>Country</u>	<u>Status</u>	<u>Title</u>	<u>Appl no</u>	<u>Appl date</u>	<u>Grant no</u>	<u>Grant date</u>
P31965 FAM	AU	GRANTED	Reduce the Minimum Bitrate	2010358370	2010-07-28	2010358370	2015-06-18
P31965 FAM	BR	FILED	Reduce the Minimum Bitrate	BR1120130010142	2010-07-28		
P21920 FAM	BR	FILED	IMS-enabled IPTV control channel	PI0621350-2	2006-02-24		
P22338 FAM	CN	GRANTED	Inter-site-distance adaptive broadcasting	200680055954-6	2006-07-27	ZL200680055954-6	2013-10-30
P25637 FAM	CN	GRANTED	CONTENT ADAPTIVE GOP LENGTH AND GOP STRUCTURE IN MPEG2 VIDEO ENCODER	200880129541.7	2008-05-22	ZL200880129541.7	2013-06-12
P28337 FAM	CN	GRANTED	Method for improving performance of P2P systems in mobile networks	200980159716.3	2009-05-29	ZL200980159716.3	2015-03-25
P32196 FAM	CN	GRANTED	Pre-Rate Buffer, PCR Insertion	201080068720.1	2010-08-23	ZL201080068720.1	2016-12-07
P24172 FAM	DE	GRANTED	Expat Transponder for IPTV Networks	08705341.9	2008-01-22	602008041787.5	2016-01-06
P32196 FAM	DE	GRANTED	Pre-Rate Buffer, PCR Insertion	10751588.4	2010-08-23	602010021630.6	2015-01-07

P32904 FAM	DE	GRANTED	Private Data Inclusion For Multiplexed Systems	10784506.7	2010-11-26	6020100513 03.3	2018-06-13
P21920 FAM	EP	GRANTED	IMS-enabled IPTV control channel	06708519.1	2006-02-24	1987647	2010-11-03
P24172 FAM	EP	GRANTED	Expat Transponder for IPTV Networks	08705341.9	2008-01-22	2245855	2016-01-06
P31965 FAM	EP	FILED	Reduce the Minimum Bitrate	10742791.6	2010-07-28		
P32196 FAM	EP	GRANTED	Pre-Rate Buffer, PCR Insertion	10751588.4	2010-08-23	2609743	2015-01-07
P32495 FAM	EP	FILED	Video Bit Rate Tracking/Maximising	10175907.4	2010-09-09		
P32904 FAM	EP	GRANTED	Private Data Inclusion For Multiplexed Systems	10784506.7	2010-11-26	2643954	2018-06-13
P44418 FAM	EP	FILED	N-screen Interactive Web-App Editor	15781145.6	2015-08-31		
P46683	EP	FILED	Adaptive Transfer Functions For High Dynamic Range Video Compression	15716036.7	2015-04-10		
P47101 FAM	EP	FILED	Dynamic client-side selection of FEC fragments	16795422.1	2016-10-27		

P71918 FAM	EP	FILED	Method And System For Encoding And Multiplexing Programmes From A Plurality Of Television Channels	16193799.0			
P25203 FAM	GB	GRANTED	P2P IPTV Key Indicator Insertion	1008838.3	2007-12-21	2468068	2012-10-10
P25615 FAM	GB	GRANTED	P2P IPTV Media Distribution	1011865.1	2008-02-22	2470493	2011-03-23
P25616 FAM	GB	GRANTED	P2P IPTV Stream interleave via subscription	1009598.2	2008-02-22	2469763	2011-03-09
P32196 FAM	GB	GRANTED	Pre-Rate Buffer, PCR Insertion	10751588.4	2010-08-23	2609743	2015-01-07
P32904 FAM	GB	GRANTED	Private Data Inclusion For Multiplexed Systems	10784506.7	2010-11-26	2643954	2018-06-13
P21920 FAM	IN	GRANTED	IMS-enabled IPTV control channel	6174/DELNP/2008	2006-02-24	284285	2017-06-16
P24172 FAM	IN	FILED	Expat Transponder for IPTV Networks	4577/DELNP/2010	2008-01-22		
P25615 FAM	IN	FILED	P2P IPTV Media Distribution	4624/DELNP/2010	2008-02-22		
P25616 FAM	IN	FILED	P2P IPTV Stream interleave via subscription	4573/DELNP/2010	2008-02-22		

P29653 FAM	IN	FILED	Parental Control in Mobile TV Consumptio n	1012/DELNP/2012	2010-06- 09		
P31965 FAM	IN	FILED	Reduce the Minimum Bitrate	217/DELNP/2013	2010-07- 28		
P14143 FAM	JP	GRANTED	Improved media synchronisat ion using predetermin ed media properties	2002-590029	2002-05- 10	4290995	2009-04-10
P26706 FAM	JP	GRANTED	Distribution methods for storage system based on P2P and multicast technology	2011-549442	2009-02- 17	5269208	2013-05-17
P32196 FAM	NL	GRANTED	Pre-Rate Buffer, PCR Insertion	10751588.4	2010-08- 23	2609743	2015-01-07
P32904 FAM	NL	GRANTED	Private Data Inclusion For Multiplexed Systems	10784506.7	2010-11- 26	2643954	2018-06-13
P42887 FAM	TW	GRANTED	Social Quantified Self	104103959	2015-02- 05	1558189	2016-11-11
P21920 FAM	US	GRANTED	IMS- enabled IPTV control channel	11/661550	2006-02- 24	8078733	2011-12-13
P21939 FAM	US	GRANTED	Network implemente d PVR and chase-play combined with IMS services	12/281723	2006-03- 07	8752107	2014-06-10
P22338 FAM	US	GRANTED	Inter-site- distance adaptive broadcasting	12/375254	2006-07- 27	8781391	2014-07-15

P25615 FAM	US	GRANTED	P2P IPTV Media Distribution	12/918375	2008-02- 22	8316108	2012-11-20
P25616 FAM	US	GRANTED	P2P IPTV Stream interleave via subscription	12/918341	2008-02- 22	8316148	2012-11-20
P25637 FAM	US	GRANTED	CONTENT ADAPTIVE GOP LENGTH AND GOP STRUCTU RE IN MPEG2 VIDEO ENCODER	12/994036	2008-05- 22	8837602	2014-09-16
P27110 FAM	US	GRANTED	Improved VoD content section reusage in TV solution	13/262881	2009-04- 16	9060192	2015-06-16
P27370 FAM	US	GRANTED	Supporting Functions for Quality P2P VoD Service	13/123412	2009-10- 08	9003467	2015-04-07
P31965 FAM	US	FILED	Reduce the Minimum Bitrate	13/812187	2010-07- 28		
P32196 FAM	US	GRANTED	Pre-Rate Buffer, PCR Insertion	13/816788	2010-08- 23	9374580	2016-06-21
P32196 FAM	US	GRANTED	Pre-Rate Buffer, PCR Insertion	15/157516	2016-05- 18	10080050	2018-09-18
P32495 FAM	US	GRANTED	Video Bit Rate Tracking/M aximising	13/226755	2011-09- 07	8848784	2014-09-30
P32904 FAM	US	GRANTED	Private Data Inclusion For Multiplexed Systems	13/988856	2010-11- 26	9078017	2015-07-07
P42346 FAM	US	GRANTED	Weighted image adaptations	14/184620	2014-02- 19	9336567	2016-05-10

P44418 FAM	US	FILED	N-screen Interactive Web-App Editor	14/580172	2014-12- 22		
P46683	US	FILED	Adaptive Transfer Functions For High Dynamic Range Video Compressio n	15/559594	2015-04- 10		
P47101 FAM	US	FILED	Dynamic client-side selection of FEC fragments	14/930543	2015-11- 02		
P47313 FAM	US	FILED	Side-by-side testing over IP	15/096542	2016-04- 12		
P47314 FAM	US	FILED	HDMI Automation Testing Apparatus	15/132129	2016-04- 18		
P47353 FAM	US	GRANTED	Caption Rendering Automation Test Framework	15/098883	2016-04- 14	9900665	2018-02-20
P47522 FAM	US	GRANTED	Token revocation using mutating policies	14/937800	2015-11- 10	10038723	2018-07-31
P47661	US	GRANTED	Personalized Dynamic Live TV Feeds	14/942858	2015-11- 16	9762943	2017-09-12
P73514	US	EXPIRED	Multi-DRM and Adding Secure service-level entitlements on top of native DRM	62/598272	2017-12- 13		

Envivio Inc.							
P71753 FAM	US	GRANTED	Interactive Streaming Media Production Tool Using Communication Optimization	10/831960	2004-04-26	7376153	2008-05-20
P71753 FAM	US	GRANTED	Interactive Streaming Media Production Tool Using Communication Optimization	10/076879	2002-02-13	6727915	2004-04-27
P71754 FAM	US	GRANTED	Quantization And Compression Of Information In A Direct Acyclic Graph	10/222954	2002-08-15	6711300	2004-03-23
P71754 FAM	US	GRANTED	Quantization And Compression Of Information In A Direct Acyclic Graph	10/806055	2004-03-22	7039251	2006-05-02
P71754 FAM	US	GRANTED	Quantization And Compression Of Information In A Direct Acyclic Graph	11/406061	2006-04-18	7277588	2007-10-02

	US	GRANTED	Quantization And Compression Of Information In A Direct Acyclic Graph	11/906,534	2007-10-02	74784796	2009-01-06
P71756 FAM	US	GRANTED	Optimized Mixed Media Rendering	10/159989	2002-05-31	7439982	2008-10-21
<b>Envivio France</b>							
P71737 FAM	FR	GRANTED	Method for Selecting at Least One Encoding Parameter in a Video Encoder	1455665	2014-06-19	1455665	2018-06-29
P71738 FAM	FR	GRANTED	Method for Managing Personalized Playing Lists Of The Type Comprising A URL Template And A List Of S	1354503	2013-05-17	3005820	2015-05-29
P71739 FAM	FR	GRANTED	System And Method For The Dynamic Reduction Of The Entropy Of A Signal Upstream To A Data Compression	1351277	2013-02-14	3002062	2017-06-23



P71740 FAM	FR	GRANTED	Image Encoding Or Decoding Method And Device, With Parallelizati on Of Processing Over Several Proces	0853225	2008-05- 19	2931280	2011-01-07
P71742 FAM	FR	GRANTED	Real Time Encoder With Time And Bit Rate Constraint, Method, Computer Program Product And Correspond	0609473	2006-10- 27	2907990	2009-04-17
P71743 FAM	FR	GRANTED	Method And Device For Detecting Transitions In A Video Sequence, Method And Device For Coding, Compu	0510097	2005-10- 03	2891686	2008-04-18
P71751 FAM	FR	GRANTED	Multiple- Reference Motion Estimation Method And Device, Coding Method And Device, Computer Program P	0510096	2005-10- 03	2891685	2008-04-18

P71752 FAM	FR	GRANTED	Image Coding Or Decoding Device And Method Involving Multithreadi ng Of Processing Operations Over A	0305531	2003-05- 06	2854754	2005-12-16
P71918 FAM	FR	GRANTED	Method And System For Encoding And Multiplexin g Programmes From A Plurality Of Television Channels	1653964	2016-05- 02	FR3042361 B1	2017-12-08
P71737 FAM	US	GRANTED	Method for Selecting at Least One Encoding Parameter in a Video Encoder	14/745005	2015-06- 19	9888254	2018-02-06
P71738 FAM	US	GRANTED	Method for Managing Personalized Playing Lists Of The Type Comprising A URL Template And A List Of S	14/281560	2014-05- 19	9710473	2017-07-18

P71739 FAM	US	GRANTED	System And Method For The Dynamic Reduction Of The Entropy Of A Signal Upstream To A Data Compressio	14/181242	2014-02-14	9635362	2017-04-25
P71740 FAM	US	GRANTED	Image Encoding Or Decoding Method And Device, With Parallelizati on Of Processing Over Several Proces	12/468374	2009-05-19	8111749	2012-02-07
P71742 FAM	US	GRANTED	Real Time Encoder With Time And Bit Rate Constraint, Method, Computer Program Product And Correspond	11/857099	2007-10-19	8254442	2012-08-28
P71743 FAM	US	GRANTED	Method And Device For Detecting Transitions In A Video Sequence, Method And Device For Coding, Compu	11/542632	2006-10-03	7990477	2011-08-02

P71752 FAM	US	GRANTED	Image Coding Or Decoding Device And Method Involving Multithreadi ng Of Processing Operations Over A	10/555498	2004-05- 06	7885334	2011-02-08
P71918	US	GRANTED	Method And System For Encoding And Multiplexin g Programmes From A Plurality Of Television Channels	15/291752	2015-10- 13	9848220	