

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM564555

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	Assignment of Intellectual Property Security Agreement		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
PNC Bank, National Association, as Existing Agent		02/28/2020	national association: UNITED STATES
RECEIVING PARTY DATA			
Name:	Broadcast LendCo, LLC, as Successor Agent		
Street Address:	6260 Lookout Drive		
City:	Boulder		
State/Country:	COLORADO		
Postal Code:	80301		
Entity Type:	Limited Liability Company: DELAWARE		
PROPERTY NUMBERS Total: 41			
Property Type	Number	Word Mark	
Registration Number:	3137081	3DX	
Registration Number:	2846012	DEXSTAR	
Registration Number:	2430185	DIAMOND CD	
Registration Number:	1944296	DIGIT	
Registration Number:	2564838	DX	
Registration Number:	2648904	DX DESTINY	
Registration Number:	2921558	ECDI	
Registration Number:	2795051	EPAL	
Registration Number:	2326255	FLEXICODER	
Registration Number:	3104840	FLEXSTAR	
Registration Number:	3658546	HPX	
Registration Number:	2550459	INTRAGUIDE	
Registration Number:	3215163	INTRAPLEX	
Registration Number:	2973475	POWERCD	
Registration Number:	3729466	POWERSMART	
Registration Number:	1944462	SIGMA	
Registration Number:	2999029	STL PLUS	
Registration Number:	2552663	SYNCHROCAST	
Registration Number:	2062535	ADSERVE	
TRADEMARK			

OP \$1040.00 3137081

Property Type	Number	Word Mark
Registration Number:	2643480	CINESOUND
Registration Number:	3764593	CONNECTUS
Registration Number:	2751168	INVENIO
Registration Number:	3811561	NETGAIN
Registration Number:	3545865	NEXIO
Registration Number:	3702095	NEXIO AMP
Registration Number:	2234658	PARADIGM
Registration Number:	3241597	SPOTDATA
Registration Number:	2802690	VIDEORUNNER
Registration Number:	1561992	VIDEOTEK
Registration Number:	1788780	OMNIFRAME
Registration Number:	3574180	MICROMAX
Registration Number:	3336829	ZX
Registration Number:	3407079	
Registration Number:	3442012	ICE
Registration Number:	3737535	DIGITAL RAPIDS C2
Registration Number:	4222630	KAYAK
Registration Number:	3681048	TOUCHSTREAM
Registration Number:	2288937	ECLIPSE
Registration Number:	3767129	ECLIPSEPLUS
Registration Number:	3861498	RGB NETWORKS
Registration Number:	3888865	VMG

CORRESPONDENCE DATA

Fax Number: 2138918763

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.

Email: rhonda.deleon@lw.com

Correspondent Name: Latham & Watkins LLP

Address Line 1: 355 South Grand Avenue

Address Line 4: Los Angeles, CALIFORNIA 90071-1560

ATTORNEY DOCKET NUMBER: 052707-0007

NAME OF SUBMITTER: Rhonda DeLeon

SIGNATURE: /Rhonda DeLeon/

DATE SIGNED: 02/28/2020

Total Attachments: 20

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**ASSIGNMENT OF INTELLECTUAL PROPERTY
SECURITY AGREEMENT**

This **ASSIGNMENT OF INTELLECTUAL PROPERTY SECURITY AGREEMENT** (this “**Assignment**”), dated as of February 28, 2020, is made by **PNC BANK, NATIONAL ASSOCIATION** (as the former agent, the “**Existing Agent**”) and **BROADCAST LENDCO, LLC** (as the successor agent, together with its successors and assigns, the “**Successor Agent**”). Capitalized terms used but not defined herein have the meanings assigned to them in the Credit Agreement (as defined below).

RECITALS:

WHEREAS, Imagine Communications Corp. (formerly known as HBC Solutions, Inc. and successor by assignment to Imagine Communications ABR, Inc. (formerly Imagine Communications, Inc.)), a Delaware corporation (“**Borrower**”) and Existing Agent, among others, are parties to that certain Revolving Credit and Security Agreement, dated as of February 4, 2013 (as amended, restated, supplemented or otherwise modified from time to time, the “**Credit Agreement**”);

WHEREAS, pursuant to the Credit Agreement, Borrower executed and delivered to the Existing Agent the intellectual property security agreements identified in **Exhibit A** attached hereto (as the same have been and may hereafter be amended, restated, supplemented or otherwise modified from time to time, collectively, the “**Agreements**”) pursuant to which Borrower granted a security interest in and to the intellectual property identified in **Exhibit B** (the “**Subject IP**”); and

WHEREAS, pursuant to that certain Resignation and Appointment Agreement, dated as of February 28, 2020, by and between Existing Agent and Successor Agent, Existing Agent assigned, transferred, and conveyed to Successor Agent all of its right, title and interest in, to and under all of the Security Documents, the Perfection Instruments and any Other Documents evidencing the grant of any item or security interest in any property of the Credit Parties and all proceeds thereof.

NOW, THEREFORE, in consideration of the foregoing, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Existing Agent hereby assigns and transfers to Successor Agent and its successors and assigns, all of its rights, title and interest in and to the Agreements.

This Assignment may be executed in any number of counterparts, each of which when so executed shall be deemed an original and all of which taken together shall constitute one and the same instrument.

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IN WITNESS WHEREOF, Existing Agent and Successor Agent have caused this Assignment to be duly executed as of the date first above written.

EXISTING AGENT:

**PNC BANK, NATIONAL
ASSOCIATION**, as Existing Agent

By: *Frederick Kiehne*
Name: Frederick Kiehne
Title: Senior Vice President

SUCCESSOR AGENT:

BROADCAST LENDCO, LLC, as
Successor Agent

By: Amanda Calender
Name: Amanda Calender
Title: Duly Authorized Signatory

EXHIBIT A

Trademark Assignment of Security granted by HBC Solutions, Inc. dated February 4, 2013 and recorded April 10, 2013 at Reel/Frame No. 5001/0393

Trademark Assignment of Security granted by Imagine Communications, Inc. dated January 14, 2014 and recorded January 16, 2014 at Reel/Frame No. 5193/0992

Trademark Assignment of Security granted by Imagine Communications Corp. (formerly known as HBC Solutions, Inc.) dated May 2, 2014 and recorded July 24, 2014 at Reel/Frame No. 5328/0657

Trademark Assignment of Security granted by Imagine Communications Corp. (formerly known as HBC Solutions, Inc.) dated November 30, 2014 and recorded December 26, 2014 at Reel/Frame No. 5429/0632

Trademark Assignment of Security granted by Imagine Communications Corp. (formerly known as HBC Solutions, Inc.) dated March 17, 2015 and recorded April 1, 2015 at Reel/Frame No. 5489/0291

Patent Assignment of Security granted by HBC Solutions, Inc. dated February 4, 2013 and recorded April 10, 2013 at Reel/Frame No. 30192/0355

Patent Assignment of Security granted by Imagine Communications Corp. (formerly known as HBC Solutions, Inc.) dated May 2, 2014 and recorded July 24, 2014 at Reel/Frame No. 33379/0678

Patent Assignment of Security granted by Imagine Communications Corp. (formerly known as HBC Solutions, Inc.) dated November 30, 2014 and recorded December 26, 2014 at Reel/Frame No. 34706/0687

Patent Assignment of Security granted by Imagine Communications Corp. (formerly known as HBC Solutions, Inc.) dated March 17, 2015 and recorded April 1, 2015 at Reel/Frame No. 35353/0208

EXHIBIT B



Copyrights

None.

Trademarks

Mark	International Class(es)	Application No. Filing Date	Registration No. Registration Date	Comments
3DX	9	78552507 24-JAN-2005	3137081 29-AUG-2006	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
DEXSTAR	9	76455322 01-OCT-2002	2846012 25-MAY-2004	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
DIAMOND CD	9	75279317 22-APR-1997	2430185 20-FEB-2001	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
DIGIT	9	74636023 17-FEB-1995	1944296 26-DEC-1995	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
DX	9	75464721 08-APR-1998	2564838 30-APR-2002	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
DX DESTINY	9	76297414 09-AUG-2001	2648904 12-NOV-2002	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
ECDI	9	78208533 29-JAN-2003	2921558 25-JAN-2005	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
EPAL	9	78216412 19-FEB-2003	2795051 16-DEC-2003	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
FLEXICODER	9	75655903 08-MAR-1999	2326255 07-MAR-2000	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
FLEXSTAR	9	78391279 26-MAR-2004	3104840 13-JUN-2006	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
HPX	9	77111459 20-FEB-2007	3658546 21-JUL-2009	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
INTRAGUIDE	9	75678777 09-APR-1999	2550459 19-MAR-2002	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
INTRAPLEX	9	78755802 17-NOV-2005	3215163 06-MAR-2007	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
POWERCD	9	78268826 30-JUN-2003	2973475 19-JUL-2005	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
POWERSMART	9	77553656 22-AUG-2008	3729466 22-DEC-2009	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.

Mark	International Class(es)	Application No. Filing Date	Registration No. Registration Date	Comments
SIGMA	9	74369935 19-MAR-1993	1944462 26-DEC-1995	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
STL PLUS	9	78294208 29-AUG-2003	2999029 20-SEP-2005	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
SYNCHROCAST	9	76303508 21-AUG-2001	2552663 26-MAR-2002	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
ADSERVE	9	74672517 04-MAY-1995	2062535 20-MAY-1997	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
CINESOUND	9	75843125 08-NOV-1999	2643480 29-OCT-2002	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
CONNECTUS	9	77604302 30-OCT-2008	3764593 23-MAR-2010	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
INVENIO	9	76358565 14-JAN-2002	2751168 12-AUG-2003	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
NETGAIN	9	77570055 15-SEP-2008	3811561 29-JUN-2010	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
NEXIO	9	77222343 05-JUL-2007	3545865 16-DEC-2008	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
NEXIO AMP	9	77222349 05-JUL-2007	3702095 27-OCT-2009	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
PARADIGM	9	75116344 10-JUN-1996	2234658 23-MAR-1999	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
SPOTDATA	42	78785070 04-JAN-2006	3241597 15-MAY-2007	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
VIDEORUNNER	9	75930408 14-FEB-2000	2802690 06-JAN-2004	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
VIDEOTEK	9	73782850 24-FEB-1989	1561992 24-OCT-1989	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
OMNIFRAME	9	74112765 02-NOV-1990	1788780 17-AUG-1993	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
MICROMAX	9	78961983 28-AUG-2006	3574180 10-FEB-2009	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.

Mark	International Class(es)	Application No. Filing Date	Registration No. Registration Date	Comments
ZX	9	78813925 14-FEB-2006	3336829 13-NOV-2007	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 5001/0393.
Design Only 	9	78841974 21-MAR-2006	3407079 01-APR-2008	PNC Bank, National Association security interest dated 01/14/14 and recorded 01/16/14 at Reel/Frame No. 5193/0992.
ICE	9	77207626 15-JUN-2007	3442012 03-JUN-2008	PNC Bank, National Association security interest dated 01/14/14 and recorded 01/16/14 at Reel/Frame No. 5193/0992.
DIGITAL RAPIDS C2	9	77348357 10-DEC-2007	3737535 12-JAN-2010	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 5328/0657.
KAYAK	9	85260856 08-MAR-2011	4222630 09-OCT-2012	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 5328/0657.
TOUCHSTREAM	9	77495059 10-JUN-2008	3681048 08-SEP-2009	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 5328/0657.
ECLIPSE	9	75543410 27-AUG-1998	2288937 26-OCT-1999	PNC Bank, National Association security interest dated 11/30/14 and recorded 12/26/14 at Reel/Frame No. 5429/0632.
ECLIPSEPLUS	9	77804750 14-AUG-2009	3767129 30-MAR-2010	PNC Bank, National Association security interest dated 11/30/14 and recorded 12/26/14 at Reel/Frame No. 5429/0632.
RGB NETWORKS 	9	77630201 10-DEC-2008	3861498 12-OCT-2010	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 5489/0291.
VMG	9	77884223 02-DEC-2009	3888865 14-DEC-2010	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 5489/0291.

Patents

Title	Application No. Application Date	(Publication No.) Patent No. Issue Date	Comments
Broadcast Transmission System With Sampling And Correction Arrangement For Correcting Distortion Caused By Amplifying And Signal Conditioning Components	09312344 1999-05-14	6281936 2001-08-28	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Configurable Exciter	09340835 1999-06-28	6795492 2004-09-21	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
RF Power Amplifier Having Synchronous RF Drive	09489494 2000-01-21	6294957 2001-09-25	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
RF Power Amplifier System Having Inductive Steering	09489488 2000-01-21	6300829 2001-10-09	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
RF Power Amplifier Having Improved Power Supply For Rf Drive Circuits	09489120 2000-01-21	6211735 2001-04-03	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Apparatus And Method For Use In Disconnecting And/Or Replacing One Of A Plurality Of Power Amplifiers In A Transmitter While The Transmitter Is Operating	09544736 2000-04-07	6294955 2001-09-25	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
RF Power Amplifier System Having Distributed Modulation Encoding	09545305 2000-04-07	6236284 2001-05-22	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Apparatus For And Method Of Control And Communication Of Multiple Stations In A Tdm Network	09737510 2000-12-15	7301960 2007-11-27	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Power Amplifier System Having Amplifier Failure Compensation	09747556 2000-12-23	6424216 2002-07-23	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Broadcast Transmission System With Sampling And Correction Arrangement For Correcting Distortion Caused By Amplifying And Signal Conditioning Components	09905560 2001-07-13	6519010 2003-02-11	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Surface Mounted Broadside Directional Coupler	09932390 2001-08-17	6590472 2003-07-08	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Broadband Amplifier System Having Improved Linearity And Minimum Loss	09932813 2001-08-17	6646504 2003-11-11	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
System And Method For Improving Input Return Loss In Rf Amplifiers	09931734 2001-08-20	6522196 2003-02-18	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Minimizing Dissipation In Rf Power Amplifiers	09931737 2001-08-20	6683496 2004-01-27	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Sharply Tuned Bandpass Filter	10239699 2002-09-23	6933986 2005-08-23	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Forward Error Correction Method And System For Reliable Transmission Of Real Time Data Over A Packet Based Network	10310514 2002-12-05	6851084 2005-02-01	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Precorrection Of A Nonlinear Amplifier	10335772 2003-01-02	6812792 2004-11-02	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Pulse Width Modulator Having Reduced Signal Distortion At Low Duty Cycles	10407689 2003-04-04	6838862 2005-01-04	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Antenna System Utilizing Elevated, Resonant, Radial Wires	10407709 2003-04-04	6873300 2005-03-29	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Audio Signal Rate Adaptation Method and System	10408060 2003-04-04	7295567 2007-11-13	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Digitally Adaptive Modulated Transmitter	10464961 2003-06-19	7035600 2006-04-25	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Transmitting Rf Signals Employing Improved High-Level Combinations Of Analog Fm And Digital Signals	10788710 2004-02-27	7477700 2009-01-13	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Inductive Output Tube (Iot) Control Circuit	10854968 2004-05-27	7310214 2007-12-18	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Transmitter Synchronization In A Distributed Transmission System	11038997 2005-01-20	7599442 2009-10-06	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
Digital Amplitude Modulation Transmitter With Pulse Width Modulating RF Drive	11105692 2005-04-14	7369819 2008-05-06	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Dual Output Digital Exciter	11403304 2006-04-13	7623833 2009-11-24	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Phase Correction Of A Constant Envelope Signal Without Introducing Amplitude Modulation	11403458 2006-04-13	7782978 2010-08-24	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Alternating Digital Rf Modulation	11477197 2006-06-28	7719377 2010-05-18	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Liquid Cooled High-Frequency Filter	11491707 2006-07-24	7864528 2011-01-04	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Automatic Delay Compensated Simulcasting System And Method	11540301 2006-09-29	8300668 2012-10-30	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Method And System For Encapsulating Time Division Multiplex Data Into Individual Packets Of A Packet Based Network	11803300 2007-05-14	8189553 2012-05-29	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Transmitting Rf Signals Employing Both Digital And Analog Components With A Common Amplifier	11890573 2007-08-07	7929926 2011-04-19	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Phase Lock Control System For A Voltage Controlled Oscillator	11985005 2007-11-13	7538620 2009-05-26	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Method For Combining Binary Numbers In Environments Having Limited Bit Widths And Apparatus Therefor	11984603 2007-11-20	8214418 2012-07-03	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Composite Crest Factor Reduction	12229430 2008-08-22	7983358 2011-07-19	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Multiple Phase Power Supply Having Current Shared Power Factor Correction	12286701 2008-10-01	8223518 2012-07-17	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
Digital Exciter Having Pilot Signal Compensation	12691814 2010-01-22	8446992 2013-05-21	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Communication Via Address Modulation	12757642 2010-04-09	8385334 2013-02-26	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Measurement Of System Time Delay	12759044 2010-04-13	8594227 2013-11-26	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Systems And Methods For Presentation Of Digital Media At A Mobile Platform	12759373 2010-04-13	8745671 2014-06-03	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Amplifying System	13246121 2011-09-27	8581662 2013-11-12	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Studio-Transmitter Link (STL) Systems And Methods	13246241 2011-09-27	9681310 2017-06-13	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Hybrid Coupler	13271317 2011-10-12	8698557 2014-04-15	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Broadband Amplifier System Using A 3db Quadrature Combiner To Dynamically Modulate Load Impedance	13294541 2011-11-11	8670732 2014-03-11	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Broadband High Efficiency Amplifier System Incorporating Dynamic Modulation Of Load Impedance	13294583 2011-11-11	8718580 2014-05-06	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Predictable Coding Delay Over Communications Networks	13313083 2011-12-07	8971471 2015-03-03	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Broadband High Efficiency Amplifier System And A Method Of Constructing High Power Amplitude Modulated RF Signal	13565119 2012-08-02	9219444 2015-12-22	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Operation Of An Antenna On A Second, Higher Frequency	13613455 2012-09-13	8957822 2015-02-17	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.) Patent No. Issue Date	Comments
Multi-Format On-Screen Monitor	09539371 2000-03-31	6532024 2003-03-11	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Method And Apparatus For Polar Display Of Composite And Rgb Color Gamut Violation	09726093 2000-11-29	6828981 2004-12-07	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Method And Apparatus For Packing And Decoding Audio And Other Data	09776730 2001-02-06	7848929 2010-12-07	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Single Clock Reference For Compressed Domain Processing Systems With Interspersed Transport Packets	09912432 2001-07-25	6473007 2002-10-29	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Splicing Compressed, Local Video Segments Into Fixed Time Slots In A Network Feed	09912433 2001-07-25	7188354 2007-03-06	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Multi-Channel Relative Amplitude And Phase Display With Logging	10813798 2004-03-31	7555131 2009-06-30	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Method And Apparatus For Analyzing Digital Video Using Multi-Format Display	10814401 2004-03-31	7567256 2009-07-28	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Timing Display Indicator	10931538 2004-09-01	7233349 2007-06-19	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Icon Bar Display For Video Editing System	11098356 2005-04-04	7434155 2008-10-07	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
Interpolation Of Plotted Points Between Sample Values	11271013 2005-11-10	7528844 2009-05-05	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System, Program Product, And Methods To Enhance Media Content Management	11305872 2005-12-16	7693897 2010-04-06	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System, Program Product, And Methods To Enhance Media Content Management	11305852 2005-12-16	8250051 2012-08-21	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System, Methods, And Program Product To Trace Content Genealogy	11305871 2005-12-16	9626366 2017-04-18	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Method And Apparatus For Compression Of A Video Signal	11319370 2005-12-29	8130841 2012-03-06	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Transmitting FEC Packets	11355956 2006-02-17	7516387 2009-04-07	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For An Adaptive Scheduling System Architecture	11701422 2007-02-02	8326685 2012-12-04	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For An Adaptive Scheduling System Architecture	11701423 2007-02-02	8423407 2013-04-16	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Apparatus And Method For Soft Media Processing Within A Routing Switcher	11675519 2007-02-15	7920557 2011-04-05	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
System And Method For Controlling Content And Delivery Of Internet Protocol Television (IPTV) Services	11733230 2007-04-10	8059662 2011-11-15	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Generating A Reset Signal For Synchronization Of A Signal	11734438 2007-04-12	7831855 2010-11-09	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Content-Based Routing Of Information Content	11748857 2007-05-15	9019830 2015-04-28	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Creating And Using A Smart Electronic Programming Guide	11812783 2007-06-21	9094717 2015-07-28	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Creating And Using A Smart Channel Tuner List	11812773 2007-06-21	8806534 2014-08-12	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Picture-In-Picture Assisted Time-Adaptive Surfing For A Content Presentation System	11812782 2007-06-21	8782703 2014-07-15	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For A Passively-Adaptive Preferred Channel List	11812779 2007-06-21	9319726 2016-04-19	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Processing System Providing Interlaced Video Field Inversion Detection Features And Related Methods	12021428 2008-01-29	9516198 2016-12-06	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Processing System Providing Image Pattern Detection Based Upon Image Transition Boundaries And Related Methods	12023354 2008-01-31	8633987 2014-01-21	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Synchronization Of Metadata	12047704 2008-03-13	8019737 2011-09-13	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Distributing A Client Load From A Failed Server Among Remaining Servers In A Storage Area Network (San)	12047381 2008-03-13	8103775 2012-01-24	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
Video Multiviewer System Using Direct Memory Access (DMA) Registers And Block RAM	12099380 2008-04-08	9438844 2016-09-06	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Monitoring Device Providing Parametric Signal Curve Display Features And Related Methods	12100060 2008-04-09	8717435 2014-05-06	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Multiviewer System With Switcher And Distributed Scaling And Related Methods	12100143 2008-04-09	9172900 2015-10-27	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Multiviewer System With Distributed Scaling And Related Methods	12100121 2008-04-09	9716854 2017-07-25	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Multiviewer System With Serial Digital Interface And Related Methods	12100169 2008-04-09	8773469 2014-07-08	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Multiviewer System Providing Direct Video Data Transfer To Graphics Processing Unit (GPU) Memory And Related Methods	12100510 2008-04-10	9615049 2017-04-04	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Multiviewer System Permitting Scrolling Of Multiple Video Windows And Related Methods	12100529 2008-04-10	8811499 2014-08-19	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Video Multiviewer System For Generating Video Data Based Upon Multiple Video Inputs With Added Graphic Content And Related Methods	12100525 2008-04-10	9124847 2015-09-01	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Media Inventory Service	12133647 2008-06-05	8069097 2011-11-29	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Messaging Tracking System And Method	12190847 2008-08-13	8549090 2013-10-01	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.) Patent No. Issue Date	Comments
Method, System And Apparatus For Synchronizing Signals	12510602 2009-07-28	8767778 2014-07-01	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System For Synchronizing Signals Including A Slave Signal Generator Generating Elapsed Time Data With Respect To An Initial Time Point And Related Methods	12612786 2009-11-05	8095615 2012-01-10	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Synchronized Media Distribution	12623032 2009-11-20	8280949 2012-10-02	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Multi-Channel Audio Display	12874807 2010-09-02	8483397 2013-07-09	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Graphical User Interface To Facilitate Managing Media Operations	13228015 2011-09-08	9021355 2015-04-28	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Geospatial Multiviewer	13232559 2011-09-14	9076259 2015-07-07	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
System And Method For Disaster Recovery	13245317 2011-09-26	8819476 2014-08-26	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Network Analysis Device And Method	13287593 2011-11-02	9444700 2016-09-13	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Media Service And Method For Delivery Of Stored Media	13313201 2011-12-07	9124671 2015-09-01	PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.
Adaptive Media Delivery	13419887 2012-03-14	9179169 2015-11-03	Owner: HBC Solutions, Inc. PNC Bank, National Association security interest dated 02/04/13 and recorded 04/10/13 at Reel/Frame No. 30192/0355.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
Systems And Methods For Dynamic Development And Deployment Of Computing Applications Using Blueprints	13605661 2012-09-06	9043747 2015-05-26	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 33379/0678.
Systems And Methods For Determining Trust Levels For Computing Components	13838795 2013-03-15	9785767 2017-10-10	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 33379/0678.
Systems And Methods For Controlling Branch Latency Within Computing Applications	13839096 2013-03-15	9182949 2015-11-10	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 33379/0678.
Systems And Methods For Partitioning Computing Applications To Optimize Deployment Resources	13839550 2013-03-15	8887154 2014-11-11	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 33379/0678.
Systems And Methods For Computing Applications	14343299 2014-04-24	9152470 2015-10-06	PNC Bank, National Association security interest dated 05/02/14 and recorded 07/24/14 at Reel/Frame No. 33379/0678.
Dynamic Scheduling For Advanced Advertising In Linear Television	13725027 2012-12-21	9877054 2018-01-23	PNC Bank, National Association security interest dated 11/30/14 and recorded 12/26/14 at Reel/Frame No. 34706/0687.
Display Screen With A Graphical User Interface	29454711 2013-05-13	D759684 2016-06-21	PNC Bank, National Association security interest dated 11/30/14 and recorded 12/26/14 at Reel/Frame No. 34706/0687.
Intelligent Tool To Support Manual Scheduling Of Ads	14257355 2014-04-21	9799048 2017-10-24	PNC Bank, National Association security interest dated 11/30/14 and recorded 12/26/14 at Reel/Frame No. 34706/0687.
Method And Apparatus For Time-Multiplexed Processing Of Multiple Digital Video Programs	10723253 2003-11-26	7046677 2006-05-16	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Time-Multiplexed Multi-Program Encryption System	11094865 2005-03-31	7590237 2009-09-15	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Advanced, Self-Balancing Video Multiplexer System	11123677 2005-05-06	7804856 2010-09-28	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Advanced, Adaptive Video Multiplexer System	11123559 2005-05-06	6996129 2006-02-07	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
Wideband Multi-Channel Quadrature Amplitude Modulation Of Cable Television Signals	11124560 2005-05-06	7068730 2006-06-27	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Video Multiplexer System Providing Low-Latency Vcr-Like Effects And Program Changes	11123780 2005-05-06	8161519 2012-04-17	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System And Method For Routing Content	11328587 2006-01-10	9294728 2016-03-22	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Method And Apparatus For Time-Multiplexed Processing Of Multiple Digital Video Programs	11388833 2006-03-23	7852854 2010-12-14	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System And Method For Processing Content	11549226 2006-10-13	8180920 2012-05-15	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Sdram Convolutional Interleaver With Two Paths	11787228 2007-04-13	8127199 2012-02-28	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Methods And Apparatus For Rate Estimation And Predictive Rate Control	11801844 2007-05-11	7885189 2011-02-08	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System And Method For Monitoring Content	11772582 2007-07-02	8627509 2014-01-07	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Methods, Apparatus, And Systems For Insertion Of Overlay Content Into A Video Signal With Transrating Capabilities	11881366 2007-07-25	7688889 2010-03-30	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Method And Apparatus For Modifying A Data Rate Of A Video Signal	11881209 2007-07-25	7801213 2010-09-21	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Methods, Apparatus, And Systems For Managing The Insertion Of Overlay Content Into A Video Signal	11881208 2007-07-25	8087044 2011-12-27	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Bandwidth Based Licensing Scheme For Video, Audio And/Or Multimedia Content	11901205 2007-09-14	10051238 2018-08-14	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.

Title	Application No. Application Date	(Publication No.)	Comments
		Patent No. Issue Date	
System And Method For Managing Content	11936548 2007-11-07	7818355 2010-10-19	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System And Method For Delivering Content	12208122 2008-09-10	9473812 2016-10-18	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Advanced, Self-Balancing Video Multiplexer System	12319629 2009-01-08	7864808 2011-01-04	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Preconditioning Ad Content For Digital Program Insertion	12487130 2009-06-18	8904426 2014-12-02	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System And Method For Progressive Delivery Of Media Content	12578773 2009-10-14	9247276 2016-01-26	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System And Method For Splicing Media Files	12690166 2010-01-20	9282131 2016-03-08	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Managed Multiplexing Of Video In An Adaptive Bit Rate Environment	12949957 2010-11-19	10003851 2018-06-19	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Full Spectrum Modulator For Digital Television Signals	13164029 2011-06-20	8610514 2013-12-17	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Method And Apparatus For Aligning Idr Frames In Transcoded Multi-Bitrate Video Streams	13209490 2011-08-15	8855197 2014-10-07	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
High-Density Quality-Adaptive Multi-Rate Transcoder Systems And Methods	13711758 2012-12-12	9357213 2016-05-31	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
Targeted High-Value Content In HTTP Streaming Video On Demand	13826421 2013-03-14	8887215 2014-11-11	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.
System, Program Product, And Methods To Enhance Content Management	12688475 2010-01-15	8069161 2011-11-29	PNC Bank, National Association security interest dated 03/17/15 and recorded 04/01/15 at Reel/Frame No. 35353/0208.