PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4555848

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARVELL WORLD TRADE LTD.	06/08/2017

RECEIVING PARTY DATA

Name:	Marvell International Ltd.
Street Address:	Canon's Court, 22 Victoria Street
City:	Hamilton
State/Country:	BERMUDA
Postal Code:	HM12

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11803535

CORRESPONDENCE DATA

Fax Number: (408)222-2755

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.

Phone: 408-222-2500
Email: agorthy@marvell.com
Correspondent Name: KELVIN VIVIAN
Address Line 1: 5488 MARVELL LANE
Address Line 4: SANTA CLARA, CALIFORNIA 95054

ATTORNEY DOCKET NUMBER:	MP1089
NAME OF SUBMITTER:	KELVIN VIVIAN
SIGNATURE:	/Kelvin Vivian/
DATE SIGNED:	08/17/2017

Total Attachments: 18
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ASSIGNMENT AND CANCELLATION OF EXCLUSIVE LICENSE
MWTL to MIL

WHEREAS, Marvell World Trade Ltd., a corporation of Barbados, having a place of business at L'Horizon, Gunsite Road, Brittons Hill, St. Michael, Barbados BB14027 (hereafter the "ASSIGNOR"), is the owner by respective Assignment of patents and patent applications identified in Exhibit A (hereafter the "ASSIGNED PATENTS"), attached hereto and incorporated herein by reference, and has granted an exclusive license for some or all of the ASSIGNED PATENTS to Marvell International Ltd., a corporation of Bermuda, having a place of business at Canon's Court, 22 Victoria Street, Hamilton, HM12, Bermuda (hereafter the "ASSIGNEE"); and

WHEREAS, ASSIGNOR and ASSIGNEE desire to cancel the exclusive licenses to the ASSIGNED PATENTS (if applicable), and ASSIGNEE desires to acquire the entire right, title, and interest of ASSIGNOR in, to and under said ASSIGNED PATENTS and all inventions and improvements described and claimed therein or entitled to the benefit thereof.

THEREFORE, for good and valuable consideration paid by ASSIGNEE, the receipt of which is hereby acknowledged, ASSIGNOR and ASSIGNEE hereby cancel the exclusive licenses to the ASSIGNED PATENTS (if applicable), and the ASSIGNOR does hereby sell, assign and transfer to the ASSIGNEE, ASSIGNOR's entire right, title and interest in and to the ASSIGNED PATENTS including all inventions and improvements disclosed therein and the right to sue for past, present and future infringement thereof, in the U.S. and every foreign country, and all patent rights, including extensions or derivations thereof, both foreign and domestic, that exist and may issue on the ASSIGNED PATENTS, and in any continuation, continuation-in-part, divisional, re-examination, priority application, reissue or extension of the ASSIGNED PATENTS, and further assigns to the ASSIGNEE the priority right provided by the International Convention. This assignment includes assignment to ASSIGNEE of the right to make application in its own behalf for protection of the ASSIGNED PATENTS and any patents issued on the ASSIGNED PATENTS, in the U.S. and countries foreign to the U.S., and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications. The ASSIGNED PATENTS and all patents that issue on the ASSIGNED PATENTS shall be held and enjoyed by the ASSIGNEE, its successors and assigns as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made, including all rights therein provided by international conventions and treaties, and the right to sue for past, present and future infringement thereof.

By its undersigned representative, the ASSIGNOR agrees

a. to execute all papers necessary in connection with the ASSIGNED PATENTS and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute separate Assignment in connection with such application as the ASSIGNEE may deem necessary or expedient;

b. to execute all papers necessary in connection with any interference which may be declared concerning the ASSIGNED PATENTS or any continuation, division, reissue or reexamination thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference; and

c. to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE on any of the ASSIGNED PATENTS and on any continuation, division, reissue or reexamination of any of the ASSIGNED PATENTS.

IN WITNESS WHEREOF, executed by the ASSIGNOR's undersigned representative on the date following the undersigned's name.

MARVELL WORLD TRADE LTD.

By: _____

Name: STEVEN PARKER

Title: DIRECTOR

Date: JUNE 8, 2017

Accepted on behalf of:
Marvell International Ltd.

By: _____

Name: Sherman Taylor

Title: General Manager

Date: June 9, 2017

Exhibit A

COUNTRY	MP NUMBER	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE	STATUS	TITLE	MP FAMILY
US	MP1081 CI	12642440	12/18/2009	US7889940 B2	2/15/2011	*Issued*	*Film Grain Generation And Addition*	MP1081
CN	MP1081CN	200610064502	12/20/2006	ZL200610064450.2	11/3/2010	*Issued*	*Film Grain Generation and Addition*	MP1081
EP	MP1081EP	6026494.2	12/20/2006	1801751	6/25/2014	*Issued*	*Film Grain Generation and Addition*	MP1081
DE	MP1081EPDE	6026494.2	12/20/2006	602006042010.2	6/25/2014	*Issued*	*Film Grain Generation and Addition*	MP1081
FR	MP1081EPFR	6026494.2	12/20/2006	1801751	6/25/2014	*Issued*	*Film Grain Generation and Addition*	MP1081
GB	MP1081EPGB	6026494.2	12/20/2006	1801751	6/25/2014	*Issued*	*Film Grain Generation and Addition*	MP1081
HK	MP1081HK	8104663	12/20/2006	1114987	8/12/2011	*Issued*	*Film Grain Generation and Addition*	MP1081
IN	MP1081IN	2090MUM2006	12/20/2006			*Filed*	*Film Grain Generation and Addition*	MP1081
JP	MP1081JP	2006-343186	12/20/2006	5236182	4/5/2013	*Issued*	*FILM GRAIN GENERATION AND ADDITION*	MP1081
JP	MP1081JPD1	2012-159585	12/20/2006	5301716	6/28/2013	*Issued*	*Film Grain Generation and Addition*	MP1081

US	MP1083	11400505	4/7/2006	US7821578 B2	10/26/2010	*Issued*	*Reconfigurable Self-Calibrating Adaptive Noise Reducer*	MP1083
CN	MP1083CN	200780012641.7	4/5/2007	ZL200780012641.7	4/15/2015	*Issued*	*Reconfigurable Self-Calibrating Video Noise Reducer*	MP1083
EP	MP1083EP	7755026.7	4/5/2007	2011328	1/18/2017	*Issued*	*Reconfigurable Self-Calibrating Video Noise Reducer*	MP1083
DE	MP1083EPDE	7755026.7	4/5/2007	602007049579.2	1/18/2017	*Issued*	*Reconfigurable Self-Calibrating Video Noise Reducer*	MP1083
FR	MP1083EPFR	7755026.7	4/5/2007	2011328	1/18/2017	*Issued*	*Reconfigurable Self-Calibrating Video Noise Reducer*	MP1083
GB	MP1083EPGB	7755026.7	4/5/2007	2011328	1/18/2017	*Issued*	*Reconfigurable Self-Calibrating Video Noise Reducer*	MP1083
IN	MP1083IN	2321/MUMNP/2008	4/5/2007			*Filed*	*RECONFIGURABLE SELF-CALIBRATING VIDEO NOISE REDUCER*	MP1083
JP	MP1083JP	2009-504322	4/5/2007	5186712	2/1/2013	*Issued*	*APPARATUS, METHOD AND VIDEO NOISE REDUCER*	MP1083
KR	MP1083KR	KR20087027425	4/5/2007	KR101339997 B1	12/4/2013	*Issued*	*RECONFIGURABLE SELF-CALIBRATING VIDEO NOISE REDUCER*	MP1083
WO	MP1083WO	PCTUS07008614	4/5/2007	N/A	N/A	*Expired*	*RECONFIGURABLE SELF-CALIBRATING VIDEO NOISE REDUCER*	MP1083
US	MP1085	11736542	4/17/2007	US8264610 B2	9/11/2012	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1085
US	MP1085 C1	13570985	8/9/2012	US8804040 B2	8/12/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1085

CN	MP1085CN	200780014086.1	4/18/2007	ZL200780014086.1	8/8/2012	Issued	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1085
CN	MP1085CND1	201210209341O	4/18/2007	ZL201210209341O	6/1/2016	Issued	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1085
EP	MP1085EP	7775782.1	4/18/2007	2016765	7/22/2015	Issued	DUAL VIDEO CHANNEL APPARATUS AND METHOD	MP1085
DE	MP1085EPDE	7775782.1	4/18/2007	602007042262	7/22/2015	Issued	DUAL VIDEO CHANNEL APPARATUS AND METHOD	MP1085
FR	MP1085EPFR	7775782.1	4/18/2007	2016765	7/22/2015	Issued	DUAL VIDEO CHANNEL APPARATUS AND METHOD	MP1085
GB	MP1085EPGB	7775782.1	4/18/2007	2016765	7/22/2015	Issued	DUAL VIDEO CHANNEL APPARATUS AND METHOD	MP1085
IN	MP1085IN	2246MUMNP2008	4/18/2007			Filed	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1085
JP	MP1085JP	2009-506585	4/18/2007	5220726	3/15/2013	Issued	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1085
JP	MP1085JPD1	2013-044729	4/18/2007	5582A29	7/25/2014	Issued	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1085
KR	MP1085KR	20087026713	4/18/2007	10-1366200	2/17/2014	Issued	SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS	MP1085
KR	MP1085KRD1	20137012071	4/18/2007	10-1366203	2/17/2014	Issued	Shared memory Multi Video Channel Display Apparatus and Methods	MP1085
US	MP1085PR	60793276	4/18/2006	N/A	N/A	Expired	Area-Efficient Method To Save DDR Access Bandwidth Requirement On A Digital Video Processor Chip	MP1085

WO	MP1085WO	PCTUS07069583	4/18/2007	N/A	N/A	*Expired*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1085
UE	MP1087	11736561	4/17/2007	US8284322 B2	10/9/2012	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1087
US	MP1087.CI	13619196	9/14/2012	US8754991 B2	6/17/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1087
CN	MP1087CN	200780014180	4/18/2007	ZL200780014180 7	1/18/2012	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
CN	MP1087CND1	201110394193	4/18/2007	ZL201110394193 X	12/24/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1087
EP	MP1087EP	7775783.9	4/18/2007	2016758	3/29/2017	*Issued*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
DE	MP1087EPDE	7775783.9	4/18/2007	602007050400 7	3/29/2017	*Issued*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
FR	MP1087EPFR	7775783.9	4/18/2007	2016758	3/29/2017	*Issued*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
GB	MP1087EPGB	7775783.9	4/18/2007	2016758	3/29/2017	*Issued*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
EP	MP1087EPD1	11000786.1	4/18/2007	2337334	4/16/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
IN	MP1087IN	2428MUMNP2008	4/18/2007	281371	3/16/2017	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
IN	MP1087IND1	3666MUMNP2015	4/18/2007			*Filed*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087

JP	MP1087JP	2009-506386	4/18/2007	5095725	9/28/2012	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
KR	MP1087KR	7026875	4/18/2007	KR101335270 B1	11/22/2013	*Issued*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
KR	MP1087KRD1	7021398	4/18/2007	10-1334295	11/22/2013	*Issued*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
US	MP1087PR	60793277	4/18/2006	N/A	N/A	*Expired*	*Adaptive Video Converters*	MP1087
DE	MP1087UADE	11000786.1	4/18/2007	602007036185.0	4/16/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
FR	MP1087UAFR	11000786.1	4/18/2007	2337334	4/16/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
GB	MP1087UAGB	11000786.1	4/18/2007	2337334	4/16/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus and Methods*	MP1087
WO	MP1087WO	PCTUS07009584	4/18/2007	N/A	N/A	*Expired*	*SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS*	MP1087
US	MP1088PR	60793275	4/18/2006	N/A	N/A	*Expired*	*Dual 3-D Architecture*	MP1088
US	MP1088	11736564	4/17/2007	US8218091 B2	7/10/2012	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1088
US	MP1088.D1	13524353	6/15/2012	US8736757 B2	5/27/2014	*Issued*	*Shared Memory Multi Video Channel Display Apparatus And Methods*	MP1088
CN	MP1088CN	200780014058X	4/18/2007	ZL200780014058.X	2/8/2012	*Issued*	*Shared memory Multi Video Channel Display Apparatus and Methods*	MP1088

CN	MP1088CND1	201110437942.2	4/18/2007	ZL201110437942.2	2/4/2015	Issued	Shared memory Multi Video Channel Display Apparatus and Methods	MP1088
EP	MP1088EP	7755739.5	4/18/2007	N/A	N/A	Abandoned	SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS	MP1088
EP	MP1088EPD1	11002324.9	4/18/2007			Filed	SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS	MP1088
IN	MP1088IN	2244MUMNP2008	4/18/2007			Filed	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1088
IN	MP1088IND1	3708MUMNP2015	4/18/2007			Filed	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1088
JP	MP1088JP	2009-506584	4/18/2007	5217037	3/15/2013	Issued	Shared Memory Multi Video Channel Display Apparatus and Methods	MP1088
KR	MP1088KR	70065712008	4/18/2007	10-1366199	2/17/2014	Issued	SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS	MP1088
KR	MP1088KRD1	10-2013-7012070	4/18/2007	10-1366202	2/17/2014	Issued	SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS	MP1088
WO	MP1088WO	PCTUS07009580	4/18/2007	N/A	N/A	Expired	SHARED MEMORY MULTI VIDEO CHANNEL DISPLAY APPARATUS AND METHODS	MP1088
US	MP1089	11803535	5/14/2007	US8340185 B2	12/25/2012	Issued	Systems And Methods For A Motion Compensated Picture Rate Converter	MP1089
EP	MP1089EP	7809823.3	6/22/2007			Filed	Systems and Methods for a Motion Compensated Picture Rate Converter	MP1089

JP	MP1089JP	2009-518177	6/22/2007			*Abandoned*	*Systems and Methods for a Motion Compensated Picture Rate Converter*	MP1089
JP	MP1089JPD1	2012-231573	6/22/2007	5740690	5/15/2015	*Issued*	*Systems and Methods for a Motion Compensated Picture Rate Converter*	MP1089
KR	MP1089KR	7032176/2008	6/22/2007	10137577	3/3/2014	*Issued*	*Systems and Methods for a Motion Compensated Picture Rate Converter*	MP1089
US	MP1089PR	60817061	6/27/2006	N/A	N/A	*Expired*	*Motion Compensated Picture Rate Converter*	MP1089
TW	MP1089TW	96123121	6/25/2007	TWI432017 B	3/21/2014	*Abandoned*	*Systems And Methods For A Motion Compensated Picture Rate Converter*	MP1089
WO	MP1089WO	PCTUS07014609	6/22/2007	N/A	N/A	*Expired*	*SYSTEMS AND METHODS FOR A MOTION COMPENSATED PICTURE RATE CONVERTER*	MP1089
US	MP1357	11932686	10/31/2007	US8233087 B2	7/31/2012	*Issued*	*Systems And Methods For Deinterlacing High-Definition And Standard-Definition Video*	MP1357
CN	MP1357CN	200780041675.9	11/6/2007	ZL200780041675.9	2/18/2015	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357
EP	MP1357EP	7839978.9	11/6/2007	2095630	10/10/2012	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357
DE	MP1357EPDE	7839978.9	11/6/2007	602007026053.1	10/10/2012	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357
FR	MP1357EPFR	7839978.9	11/6/2007	2095630	10/11/2012	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357

GB	MP1357EPGB	7839978.9	11/6/2007	2095630	10/10/2012	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357
JP	MP1357JP	2009-536284	11/6/2007	5205621	3/1/2013	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357
US	MP1357PR	60864881	11/8/2006	N/A	N/A	*Expired*	*ADVANCED DEINTERLACER FOR HIGH-DEFINITION AND STANDARD-DEFINITION VIDEO*	MP1357
TW	MP1357TW	96142262	11/8/2007	I466543	12/21/2014	*Issued*	*Advanced Deinterlacer for High-Definition and Standard-Definition Video*	MP1357
WO	MP1357WO	PCTUS07023450	11/6/2007	N/A	N/A	*Expired*	*ADVANCED DEINTERLACER FOR HIGH-DEFINITION AND STANDARD-DEFINITION VIDEO*	MP1357
US	MP1587	11969705	1/4/2008	US8269886 B2	9/18/2012	*Issued*	*Methods And Systems For Improving Low-Resolution Video*	MP1587
US	MP1587.C1	13599459	8/30/2012	US8819760 B2	8/26/2014	*Issued*	*Methods And Systems For Improving Low-Resolution Video*	MP1587
US	MP1587PR	60878967	1/5/2007	N/A	N/A	*Expired*	*Methods And Systems For Improving Low-Resolution Video*	MP1587
TW	MP1587TW	97100393	1/4/2008	I 466547	12/21/2014	*Issued*	*Methods And Systems For Improving Low-Resolution Video*	MP1587
WO	MP1587WO	PCTUS08000100	1/4/2008	N/A	N/A	*Expired*	*Methods And Systems For Improving Low-Resolution Video*	MP1587
US	MP1705	12033490	2/19/2008	US8885099 B2	11/11/2014	*Issued*	*Methods And Systems For Improving Low Resolution And Low Frame Rate Video*	MP1705

CN	MP1705CN	2008800123343	2/19/2008	ZL200880012334.3	9/25/2013	*Issued*	*Methods and Systems for Improving Low Resolution and Low Frame Rate Video*	MP1705
US	MP1705PR	60902027	2/16/2007	N/A	N/A	*Expired*	*METHODS AND SYSTEMS FOR IMPROVING LOW FRAME RATE VIDEO*	MP1705
US	MP2251	12254289	10/20/2008	US8804048 B2	8/12/2014	*Issued*	*Motion-Adaptive Alternate Gamma Drive For LCD*	MP2251
US	MP2251PR	60982580	10/25/2007	N/A	N/A	*Expired*	*Motion-Adaptive Alternate Gamma Drive For LCD*	MP2251
TW	MP2251TW	97140735	10/23/2008	I450255	8/21/2014	*Issued*	*Motion-Adaptive Alternate Gamma Drive for a Liquid Crystal Display*	MP2251
WO	MP2251WO	PCTUS08080459	10/20/2008	N/A	N/A	*Expired*	*MOTION-ADAPTIVE ALTERNATING GAMMA DRIVE FOR A LIQUID CRYSTAL DISPLAY*	MP2251
CN	MP2251WOCN	200880117197X	10/20/2008	ZL200880117197.X	6/18/2014	*Issued*	*Motion-Adaptive Alternate Gamma Drive for a Liquid Crystal Display*	MP2251
US	MP2622	12476930	6/2/2009	US8264615 B2	9/11/2012	*Issued*	*Split Edge Enhancement Architecture*	MP2622
US	MP2622.C1	13608694	9/10/2012	US8879002 B2	11/4/2014	*Issued*	*Split Edge Enhancement Architecture*	MP2622
US	MP2622PR	61073949	6/19/2008	N/A	N/A	*Expired*	*Split Edge Enhancement Architecture*	MP2622
WO	MP2622WO	PCTUS0945993	6/2/2009			*Published*	*SPLIT EDGE ENHANCEMENT ARCHITECTURE*	MP2622
CN	MP2622WOCN	200980122358.9	6/2/2009	ZL200980122358.9	2/13/2013	*Issued*	*Split Edge Enhancement Architecture*	MP2622

JP	MP2622WOJP	2011-511906	6/2/2009	5095860	9/28/2012	*Issued*	*Split Edge Enhancement Architecture*	MP2622
KR	MP2622WOKR	10-7028533	6/2/2009	10-1587196	1/14/2016	*Issued*	*SPLIT EDGE ENHANCEMENT ARCHITECTURE*	MP2622
US	MP2629	12555960	9/9/2009	US8571347 B2	10/29/2013	*Issued*	*Reducing Digital Image Noise*	MP2629
US	MP2629 C1	14064753	10/28/2013	US9092855 B2	7/28/2015	*Issued*	*Method And Apparatus For Reducing Noise Introduced Into A Digital Image By A Video Compression Encoder*	MP2629
US	MP2629PR	61095466	9/9/2008	N/A	N/A	*Expired*	*Compression Artifact Reduction in Digital Video*	MP2629
WO	MP2629WO	PCTIB0906932	9/9/2009	N/A	N/A	*Expired*	*REDUCING DIGITAL IMAGE NOISE*	MP2629
CN	MP2629WOCN	980135127.1	9/9/2009	ZL200980135127.1	10/29/2014	*Issued*	*Reducing Digital Image Noise*	MP2629
EP	MP2629WOEP	9752466.4	9/9/2009	2327219	11/9/2016	*Issued*	*Reducing Digital Image Noise*	MP2629
JP	MP2629WOJP	2011-525643	9/9/2009	5233014	4/5/2013	*Issued*	*Reducing Digital Image Noise*	MP2629
US	MP2633	12497841	7/6/2009	US8311116 B2	11/13/2012	*Issued*	*Method And Apparatus For Periodic Structure Handling For Motion Compensation*	MP2633
US	MP2633.C1	13650375	10/12/2012	US9210445 B2	12/8/2015	*Issued*	*Method And Apparatus For Periodic Structure Handling For Motion Compensation*	MP2633

JP	MP2633JP	2009-162010	7/8/2009	5534299	5/9/2014	*Issued*	*Method and Apparatus for Periodic Structure Handling for Motion Compensation*	MP2633
US	MP2633PR	61079269	7/9/2008	N/A	N/A	*Expired*	*Periodic Structure Handling For Motion Compensated Frame Converter*	MP2633
US	MP2842	12542519	8/17/2009	9232226	1/5/2016	*Issued*	*Systems And Methods For Perceptually Lossless Video Compression*	MP2842
US	MP2842PR	61090106	8/19/2008	N/A	N/A	*Expired*	*Perceptually Lossless Hybrid Video Codec Using Wavelet Transform*	MP2842
WO	MP2842WO	PCTUS0954072	8/17/2009			*National Phase (PCT)*	*SYSTEMS AND METHODS FOR PERCEPTUALLY LOSSLESS VIDEO COMPRESSION*	MP2842
US	MP2938	12615594	11/10/2009	US9007395 B2	4/14/2015	*Issued*	*Bit Resolution Enhancement*	MP2938
US	MP2938PR	61118735	12/1/2008	N/A	N/A	*Expired*	*BIT RESOLUTION ENHANCEMENT USING ADAPTIVE FILTER WITH IMPROVED CONTOUR SEGMENTATION*	MP2938
WO	MP2938WO	PCTUS0963827	11/10/2009	N/A	N/A	*Expired*	*BIT RESOLUTION ENHANCEMENT*	MP2938
CN	MP2938WOCN	980145239.5	11/10/2009			*Abandoned*	*Bit Resolution Enhancement*	MP2938
EP	MP2938WOEP	9793364.2	11/10/2009			*Abandoned*	*Bit Resolution Enhancement*	MP2938
JP	MP2938WOJP	2011-535020	11/10/2009	5640253	11/7/2014	*Issued*	*Bit Resolution Enhancement*	MP2938
US	MP2965	12748698	3/29/2010	US8619187 B2	12/31/2013	*Issued*	*Cadence Detection in Progressive Video*	MP2965

US	MP2965PR	61165612	4/1/2009	N/A	N/A	*Expired*	*CADENCE DETECTION IN PROGRESSIVE VIDEO*	MP2965
WO	MP2965WO	PCTUS1029003	3/29/2010	N/A	N/A	*Expired*	*CADENCE DETECTION IN PROGRESSIVE VIDEO*	MP2965
CN	MP2965WOCN	201080014184.7	3/29/2010	ZL 201080014184.7	12/16/2015	*Issued*	*Cadence Detection in Progressive Video*	MP2965
EP	MP2965WOEP	10725536.6	3/29/2010	2415259	9/16/2015	*Issued*	*Cadence Detection in Progressive Video*	MP2965
JP	MP2965WOJP	2012-503545	3/29/2010	5709319	3/13/2015	*Issued*	*Cadence Detection in Progressive Video*	MP2965
DE	MP2965WUDE	10725536.6	3/29/2010	602010027566.3	9/16/2015	*Issued*	*Cadence Detection in Progressive Video*	MP2965
FR	MP2965WUFR	10725536.6	3/29/2010	2415259	9/16/2015	*Issued*	*Cadence Detection in Progressive Video*	MP2965
GB	MP2965WUGB	10725536.6	3/29/2010	2415259	9/16/2015	*Issued*	*Cadence Detection in Progressive Video*	MP2965
US	MP3223	12764214	4/21/2010	US8570438 B2	10/29/2013	*Issued*	*Automatic Adjustments For Video Post-Processor Based On Estimated Quality Of Internet Video Content*	MP3223
US	MP3223 C1	14062372	10/24/2013	US8922714 B2	12/30/2014	*Issued*	*System And Methods For Adjusting Settings Of A Video Post-Processor*	MP3223
US	MP3223PR	61171234	4/21/2009	N/A	N/A	*Expired*	*AUTOMATIC ADJUSTMENTS FOR VIDEO POST-PROCESSOR BASED ON ESTIMATED QUALITY OF INTERNET VIDEO CONTENT*	MP3223

WO	MP3223WO	PCTUS1031911	4/21/2009			National Phase (PCT)	Automatic Adjustments for Video Post-Processor Based On Estimated Quality Of Internet Video Content	MP3223
CN	MP3223WOCN	201080017646.0	4/21/2010	800176460	9/10/2014	Issued	Automatic Adjustments for Video Post-Processor Based On Estimated Quality Of Internet Video Content	MP3223
EP	MP3223WOEP	10717360.1	10/21/2011			Filed	Automatic Adjustments for Video Post-Processor Based On Estimated Quality Of Internet Video Content	MP3223
US	MP3260	12815884	6/15/2010	US8537177 B2	9/17/2013	Issued	System And Methods For Gamut Bounded Saturation Adaptive Color Enhancement	MP3260
US	MP3260.C1	14016918	9/3/2013	US8860747 B2	10/14/2014	Issued	System And Methods For Gamut Bounded Saturation Adaptive Color Enhancement	MP3260
US	MP3260PR	61187049	6/15/2009	N/A	N/A	Expired	VIDEO THROUGH ADAPTIVE COLOR ENHANCEMENT	MP3260
WO	MP3260WO	PCTUS10038608	6/15/2010	N/A	N/A	Expired	System and Methods for Gamut Bounded Saturation Adaptive Color Enhancement	MP3260
US	MP3264	12783123	5/19/2010	US8711083 B2	4/29/2014	Issued	Liquid Crystal Display Backlight Control	MP3264
US	MP3264.D1	14228544	3/28/2014	US8860657 B2	10/14/2014	Issued	Liquid Crystal Display Backlight Control	MP3264
US	MP3264PR	61180022	5/20/2009	N/A	N/A	Expired	METHOD TO CONTROL LED BACKLIGHT FOR LOCAL DIMMING	MP3264

CN	MP3264WCNA	201510084646?7	5/19/2010			*Allowed (Grant fees paid)*	*LIQUID CRYSTAL DISPLAY BACKLIGHT CONTROL*	MP3264
WO	MP3264WO	PCTUS1035425	5/19/2010	N/A	N/A	*Expired*	*Liquid Crystal Display Backlight Control*	MP3264
CN	MP3264WOCN	2010800220622	5/19/2010	ZL201080022062?2	9/9/2015	*Issued*	*LIQUID CRYSTAL DISPLAY BACKLIGHT CONTROL*	MP3264
EP	MP3264WOEP	10725316.3	5/19/2010			*Filed*	*LIQUID CRYSTAL DISPLAY BACKLIGHT CONTROL*	MP3264
JP	MP3264WOJP	2012-511995	5/19/2010	5495279	3/14/2014	*Issued*	*LIQUID CRYSTAL DISPLAY BACKLIGHT CONTROL*	MP3264
KR	MP3264WOKR	10-2011-7026228	5/19/2010			*Filed*	*LIQUID CRYSTAL DISPLAY BACKLIGHT CONTROL*	MP3264
US	MP3702	13023769	2/9/2011	US9077990 B2	7/7/2015	*Issued*	*Block Noise Detection in Digital Video*	MP3702
US	MP3702PR	61368491	7/28/2010	N/A	N/A	*Expired*	*BLOCK NOISE DETECTION IN DIGITAL VIDEO*	MP3702
TW	MP3702TW	100104627	2/11/2011	I511545	12/1/2015	*Issued*	*Block Noise Detection in Digital Video*	MP3702
WO	MP3702WO	PCTIB1100413	2/9/2011	N/A	N/A	*Expired*	*BLOCK COMPRESSION ARTIFACT DETECTION IN DIGITAL VIDEO SIGNALS*	MP3702
CN	MP3702WOCN	201180036824?9	2/9/2011			*Filed*	*BLOCK COMPRESSION ARTIFACT DETECTION IN DIGITAL VIDEO SIGNALS*	MP3702
EP	MP3702WOEP	11713514.5	2/9/2011			*Filed*	*BLOCK COMPRESSION ARTIFACT DETECTION IN DIGITAL VIDEO SIGNALS*	MP3702

US	MP4605	13766830	2/14/2013	US9152807 B2	10/6/2015	*Issued*	*Method And Apparatus For Providing Audio Or Video Capture Functionality According To A Security Policy*	MP4605
US	MP4605PR	61608336	3/8/2012	N/A	N/A	*Expired*	*METHOD AND APPARATUS FOR IMPLEMENTING A PROTECTED AV CAPTURE*	MP4605
US	MP4605PR2	61702490	9/18/2012	N/A	N/A	*Expired*	*METHOD AND APPARATUS FOR IMPLEMENTING A PROTECTED AV CAPTURE*	MP4605
WO	MP4605WO	PCTUS1326078	2/14/2013	N/A	N/A	*Expired*	*METHOD AND APPARATUS FOR PROVIDING AUDIO OR VIDEO CAPTURE FUNCTIONALITY ACCORDING TO A SECURITY POLICY*	MP4605
US	MP2744	12511238	7/29/2009	US8477146B2	7/2/2013	*Issued*	*Processing Rasterized Data*	MP2744
US	MP2744PR	61084406	7/29/2008	N/A	N/A	*Expired*	*Two-Dimensional Tiling Structure For Video Frame*	MP2744
WO	MP2744WO	PCTUS0952089	7/29/2009	N/A	N/A	*Expired*	*PROCESSING RASTERIZED DATA*	MP2744
JP	MP3524WOJP	2012-549111	1/14/2011	5751679	5/29/2015	*Issued*	*Use of Film Grain to Mask Compression Artifacts*	MP3524
CN	MP3524WOCN	201180005043.3	1/14/2011	ZL201180005043	2/3/2016	*Issued*	*Use of Film Grain to Mask Compression Artifacts*	MP3524
US	MP3524	13006805	1/14/2011	N/A	N/A	*Abandoned*	*USE OF FILM GRAIN TO MASK COMPRESSION ARTIFACTS*	MP3524
US	MP3524PR	61295340	1/15/2010	N/A	N/A	*Expired*	*USE OF FILM GRAIN TO MASK COMPRESSION ARTIFACTS*	MP3524

WO	MP3524WO	PCTUS1121299	1/14/2011	N/A	N/A	*Expired*	*USE OF FILM GRAIN TO MASK COMPRESSION ARTIFACTS*	MP3524
US	MP5070	14101918	12/10/2013	US8830395B2	9/9/2014	*Issued*	*Systems And Methods For Adaptive Scaling Of Digital Images*	MP5070
US	MP5070PR	61739428	12/19/2012	N/A	N/A	*Expired*	*ADAPTIVE SCALER*	MP5070
WO	MP5070WO	PCTUS1374103	12/10/2013	N/A	N/A	*Expired*	*SYSTEMS AND METHODS FOR ADAPTIVE SCALING OF DIGITAL IMAGES*	MP5070
US	MP5103	US14/220528	3/20/2014	US9241093 B2	1/19/2016	*Issued*	*GUIDED FILTER-BASED DETAIL ENHANCEMENT*	MP5103
CN	MP5103WOCN	201480017260.8	3/20/2014			*Filed*	*GUIDED FILTER-BASED DETAIL ENHANCEMENT*	MP5103
EP	MP5103WOEP	14769741.1	3/18/2014			*Filed*	*GUIDED FILTER-BASED DETAIL ENHANCEMENT*	MP5103
JP	MP5103WOJP	2016-50439	3/22/2013			*Filed*	*GUIDED FILTER-BASED DETAIL ENHANCEMENT*	MP5103
KR	MP5103WOKR	10-2015-7030412	3/20/2014			*Filed*	*Guided Filter-Based Detail Enhancement*	MP5103
US	MP5103PR	61804522	3/22/2013	N/A	N/A	*Expired*	*Guided Filter Based Detail Enhancement*	MP5103
WO	MP5103WO	PCTUS1431311	3/20/2014	N/A	N/A	*Expired*	*GUIDED FILTER-BASED DETAIL ENHANCEMENT*	MP5103