505930800 02/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5977518

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYAN	ICE:	ASSIGNMENT			
CONVEYING PARTY DA	ATA				
		Name	Execution Date	7	
ANUSTUP KUMAR ATANU CHOUDHURY			08/27/2018		
ROBINATKINS			08/23/2018		
THADDEUS BEIER			09/04/2018		
ALI ZANDIFAR			08/23/2018		
IAN GODIN			08/24/2018		
RECEIVING PARTY DA	ТА				
Name:	DOLBY LABORATORIES LICENSING CORPORATION				
Street Address:	1275 MARKET STREET			1	
City:	SAN FRANCISCO			1	
State/Country:	CALIFORNIA				
Postal Code:	94103-1410				
PROPERTY NUMBERS Total: 1 Property Type		Number			
Application Number:	16	6640332			
CORRESPONDENCE D	ΑΤΑ				
Fax Number:	(4	15)645-4000			
		he e-mail address first; if that is u			
using a fax number, if p Phone:		<i>if that is unsuccessful, it will be s</i> 15)558-0200	sent via US Mail.		
Email:	patents@dolby.com				
Correspondent Name:					
Address Line 1:	•				
Address Line 4:		AN FRANCISCO, CALIFORNIA 941	103-1410		
ATTORNEY DOCKET NUMBER:		D17021US01	D17021US01		
NAME OF SUBMITTER:		BIANCA MIYAKAWA			
SIGNATURE:		/Bianca Miyakawa/			
DATE SIGNED:		02/24/2020			
Total Attachments: 11		•			

source=D17021USP3-20180904-Asgmt Signed_inventors#page2.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page3.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page4.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page5.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page6.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page7.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page8.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page9.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page1.tif source=D17021USP3-20180904-Asgmt Signed_inventors#page10.tif

WHEREAS, Anustup Kumar Atanu Choudhury, a resident of Palo Alto, California, United States of America, herein referred to as ASSIGNOR, is an inventor and owner of US Patent Application No. 62/720,411, filed August 21, 2018, entitled "Tone-Curve Optimization Method and Associated Video Encoder and Video Decoder".

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 1275 Market Street, San Francisco, California 94103, hereinafter referred to as ASSIGNEE(S), is desirous of acquiring the entire right, title and interest in and to said application and the invention to which said application is directed, in and to any and all improvements relating to said invention, and in and to all patents thereon, when granted in the United States and all foreign countries;

NOW, THEREFORE, in consideration of good and valuable consideration received by ASSIGNOR from ASSIGNEE(S), the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR:

1. ASSIGNOR hereby grants, sells, assigns, transfers and conveys unto ASSIGNEE(S), or to the extent ASSIGNOR has already done so, ASSIGNOR hereby confirms the grant, sale, assignment, transfer and conveyance unto ASSIGNEE(S) of the entire right, title and interest:

(a) in and to said application, invention, and improvements thereto, and each and every additional application filed anywhere in the world, whether or not the country, jurisdiction, or authority of filing is a member of the International Union for the Protection of Industrial Property (The Paris Convention), which additional application is a division of, substitution of, continuation-in-part of, or is a counterpart of, or is in any way based on, claims priority from, or relates to, said application, invention or improvements thereto;

(b) all priority rights associated with the filing of each and every such application, for each country of The Paris Convention, for the Patent Cooperation Treaty, for the European Patent Convention, for all other treaties of like purposes, and for Taiwan; and

(c) in and to each and every patent on said invention or improvements thereto that may be granted by any country, jurisdiction or authority, including each and every patent that may be granted on any of the applications referred to in sub-section (a), and in and to each and every reissue, reexamination certificate, or extension of each and every such patent.

2. ASSIGNOR hereby warrants, covenants and represents that he/she has not heretofore granted to anyone other than ASSIGNEE(S) any license, right or privilege in respect to the said applications, patents, or said invention, nor in any other way encumbered the same, and that he/she has, or in the case of a previous assignment to ASSIGNEE(S). ASSIGNOR had the full right to convey, free of all licenses and encumbrances, the entire right, title and interest hereby assigned.

3. ASSIGNOR covenants and agrees that at the request and expense of ASSIGNEE(S) he/she will promptly execute all papers deemed necessary or desirable by ASSIGNEE(S) to perfect ownership of said invention, applications, and patents to ASSIGNEE(S), and execute all oaths, declarations and other papers deemed necessary or desirable by ASSIGNEE(S) for prosecuting said applications and patents, for

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use in interference proceedings involving said invention, applications and patents, for use in opposition proceedings involving said invention, applications and patents, for refiling said applications, for filing of divisional, substitution, continuation or continuation-in-part applications deemed necessary or desirable by ASSIGNEE(S), for reissuance or reexamination of said patents, or for the filing in foreign countries of applications for patents counterpart to or in any way based on or relates to said application or to an application which is a division of, substitution of, continuation of, continuation-in-part of, said application or which application claims priority from or relates to said invention or improvements thereto. ASSIGNOR further covenants and agrees that at the expense and request of ASSIGNEE(S), he/she will promptly assist ASSIGNEE(S) in interference, opposition and reexamination proceedings involving said invention, applications and patents, and in litigation involving said invention, applications and patents. and will assist in the ascertainment of facts and the production of evidence relating to said invention. applications and patents.

4. The terms, covenants and provisions of this ASSIGNMENT shall inure to the benefit of ASSIGNEE(S), its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, his/her heirs, legal representatives and assigns,

IN TESTIMONY WHEREOF, I have executed this instrument.

08/27/2018

In the presence of:

(1)

Signature of Witness

KADU HARSHAD

Print Witness's Name

432 LAKERIDE DR. SUNNYVALE Print Witness's Address CA 94085

Anustup Kumar Atanu Choudhury

In the presence of: Signature of Witness (2)

Elizabeth Pieri

Print Witness's Name

432 Lalesside Dr Sunnyrale (A 99085 Print Witness's Address

Docket: D17021USP3

WHEREAS, Robin Atkins, a resident of San Jose, California, United States of America, herein referred to as ASSIGNOR, is an inventor and owner of US Patent Application No. 62/720,411, filed August 21, 2018, entitled "Tone-Curve Optimization Method and Associated Video Encoder and Video Decoder".

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 1275 Market Street, San Francisco, California 94103, hereinafter referred to as ASSIGNEE(S), is desirous of acquiring the entire right, title and interest in and to said application and the invention to which said application is directed, in and to any and all improvements relating to said invention, and in and to all patents thereon, when granted in the United States and all foreign countries;

NOW, THEREFORE, in consideration of good and valuable consideration received by ASSIGNOR from ASSIGNEE(S), the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR:

I. ASSIGNOR hereby grants, sells, assigns, transfers and conveys unto ASSIGNEE(S), or to the extent ASSIGNOR has already done so, ASSIGNOR hereby confirms the grant, sale, assignment, transfer and conveyance unto ASSIGNEE(S) of the entire right, title and interest:

(a) in and to said application, invention, and improvements thereto, and each and every additional application filed anywhere in the world, whether or not the country, jurisdiction, or authority of filing is a member of the International Union for the Protection of Industrial Property (The Paris Convention), which additional application is a division of, substitution of, continuation of, continuation-in-part of, or is a counterpart of, or is in any way based on, claims priority from, or relates to, said application, invention or improvements thereto;

(b) all priority rights associated with the filing of each and every such application, for each country of The Paris Convention, for the Patent Cooperation Treaty, for the European Patent Convention, for all other treaties of like purposes, and for Taiwan; and

(c) in and to each and every patent on said invention or improvements thereto that may be granted by any country, jurisdiction or authority, including each and every patent that may be granted on any of the applications referred to in sub-section (a), and in and to each and every reissue, reexamination certificate, or extension of each and every such patent.

2. ASSIGNOR hereby warrants, covenants and represents that he/she has not heretofore granted to anyone other than ASSIGNEE(S) any license, right or privilege in respect to the said applications, patents, or said invention, nor in any other way encumbered the same, and that he/she has, or in the case of a previous assignment to ASSIGNEE(S), ASSIGNOR had the full right to convey, free of all licenses and encumbrances, the entire right, title and interest hereby assigned.

3. ASSIGNOR covenants and agrees that at the request and expense of ASSIGNEE(S) he/she will promptly execute all papers deemed necessary or desirable by ASSIGNEE(S) to perfect ownership of said invention, applications, and patents to ASSIGNEE(S), and execute all oaths, declarations and other papers deemed necessary or desirable by ASSIGNEE(S) for prosecuting said applications and patents, for use in interference proceedings involving said invention, applications and patents, for use in opposition

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proceedings involving said invention, applications and patents, for refiling said applications, for filing of divisional, substitution, continuation or continuation-in-part applications deemed necessary or desirable by ASSIGNEE(S), for reissuance or reexamination of said patents, or for the filing in foreign countries of applications for patents counterpart to or in any way based on or relates to said application or to an application which is a division of, substitution of, continuation of, continuation-in-part of, said application or which application claims priority from or relates to said invention or improvements thereto. ASSIGNOR further covenants and agrees that at the expense and request of ASSIGNEE(S), he/she will promptly assist ASSIGNEE(S) in interference, opposition and reexamination proceedings involving said invention, applications and patents, and in litigation involving said invention, applications and patents, and the production of evidence relating to said invention, applications and patents.

4. The terms, covenants and provisions of this ASSIGNMENT shall inure to the benefit of ASSIGNEE(S), its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, his/her heirs, legal representatives and assigns.

IN TESTIMONY WHEREOF, I have executed this instrument.

8/23/

In the presence of: (1)Signature of Witness Car ne

Print Witness's Name

Some ale CA Print Witness's Address

RUM

Robin Atkins

In the presence of: (2)

Signature of Witness

>UZAnne

Print Witness's Name

452 Lakesile Pr Print Witness's Address Sunngvale (A 94085

WHEREAS, Thaddeus Beier, a resident of Lafayette, California, United States of America, herein referred to as ASSIGNOR, is an inventor and owner of US Patent Application No. 62/720,411, filed August 21, 2018, entitled "Tone-Curve Optimization Method and Associated Video Encoder and Video Decoder".

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 1275 Market Street, San Francisco, California 94103, hereinafter referred to as ASSIGNEE(S), is desirous of acquiring the entire right, title and interest in and to said application and the invention to which said application is directed, in and to any and all improvements relating to said invention, and in and to all patents thereon, when granted in the United States and all foreign countries;

NOW, THEREFORE, in consideration of good and valuable consideration received by ASSIGNOR from ASSIGNEE(S), the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR:

1. ASSIGNOR hereby grants, sells, assigns, transfers and conveys unto ASSIGNEE(S), or to the extent ASSIGNOR has already done so, ASSIGNOR hereby confirms the grant, sale, assignment, transfer and conveyance unto ASSIGNEE(S) of the entire right, title and interest:

(a) in and to said application, invention, and improvements thereto, and each and every additional application filed anywhere in the world, whether or not the country, jurisdiction, or authority of filing is a member of the International Union for the Protection of Industrial Property (The Paris Convention), which additional application is a division of, substitution of, continuationin-part of, or is a counterpart of, or is in any way based on, claims priority from, or relates to, said application, invention or improvements thereto;

(b) all priority rights associated with the filing of each and every such application, for each country of The Paris Convention, for the Patent Cooperation Treaty, for the European Patent Convention, for all other treaties of like purposes, and for Taiwan; and

(c) in and to each and every patent on said invention or improvements thereto that may be granted by any country, jurisdiction or authority, including each and every patent that may be granted on any of the applications referred to in sub-section (a), and in and to each and every reissue, reexamination certificate, or extension of each and every such patent.

2. ASSIGNOR hereby warrants, covenants and represents that he/she has not heretofore granted to anyone other than ASSIGNEE(S) any license, right or privilege in respect to the said applications, patents, or said invention, nor in any other way encumbered the same, and that he/she has, or in the case of a previous assignment to ASSIGNEE(S), ASSIGNOR had the full right to convey, free of all licenses and encumbrances, the entire right, title and interest hereby assigned.

3. ASSIGNOR covenants and agrees that at the request and expense of ASSIGNEE(S) he/she will promptly execute all papers deemed necessary or desirable by ASSIGNEE(S) to perfect ownership of said invention, applications, and patents to ASSIGNEE(S), and execute all oaths, declarations and other papers deemed necessary or desirable by ASSIGNEE(S) for prosecuting said applications and patents, for

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use in interference proceedings involving said invention, applications and patents, for use in opposition proceedings involving said invention, applications and patents, for refiling said applications, for filing of divisional, substitution, continuation or continuation-in-part applications deemed necessary or desirable by ASSIGNEE(S), for reissuance or reexamination of said patents, or for the filing in foreign countries of applications for patents counterpart to or in any way based on or relates to said application or to an application which is a division of, substitution of, continuation of, continuation-in-part of, said application or which application claims priority from or relates to said invention or improvements thereto. ASSIGNOR further covenants and agrees that at the expense and request of ASSIGNEE(S), he/she will promptly assist ASSIGNEE(S) in interference, opposition and reexamination proceedings involving said invention, applications and patents, and in litigation involving said invention, applications and patents, and will assist in the ascertainment of facts and the production of evidence relating to said invention, applications and patents.

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IN TESTIMONY WHEREOF, I have executed this instrument.

benber 4,2018 Date In the presence (1) inature of Witness arz Print 432 LAKESIDE DR. SUNNYVALE, CA 94085

Print Witness's Address

Thaddeus Be

In the presence of:

Signature of Witness

K-KONSTANTINIO **Print Witness's Name**

POLBY SUNNYVALE

Print Witness's Address

Docket: D17021USP3

WHEREAS, Ali Zandifar, a resident of Los Angeles, California, United States of America, herein referred to as ASSIGNOR, is an inventor and owner of US Patent Application No. 62/720,411, filed August 21, 2018, entitled "Tone-Curve Optimization Method and Associated Video Encoder and Video Decoder".

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 1275 Market Street, San Francisco, California 94103, hereinafter referred to as ASSIGNEE(S), is desirous of acquiring the entire right, title and interest in and to said application and the invention to which said application is directed, in and to any and all improvements relating to said invention, and in and to all patents thereon, when granted in the United States and all foreign countries;

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(b) all priority rights associated with the filing of each and every such application, for each country of The Paris Convention, for the Patent Cooperation Treaty, for the European Patent Convention, for all other treaties of like purposes, and for Taiwan; and

(c) in and to each and every patent on said invention or improvements thereto that may be granted by any country, jurisdiction or authority, including each and every patent that may be granted on any of the applications referred to in sub-section (a), and in and to each and every reissue, reexamination certificate, or extension of each and every such patent.

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Docket: D17021USP3

WHEREAS, Ali Zandifar, a resident of Los Angeles, California, United States of America, herein referred to as ASSIGNOR, is an inventor and owner of US Patent Application No. 62/720,411, filed August 21, 2018, entitled "Tone-Curve Optimization Method and Associated Video Encoder and Video Decoder".

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 1275 Market Street, San Francisco, California 94103, hereinafter referred to as ASSIGNEE(S), is desirous of acquiring the entire right, title and interest in and to said application and the invention to which said application is directed, in and to any and all improvements relating to said invention, and in and to all patents thereon, when granted in the United States and all foreign countries;

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IN TESTIMONY WHEREOF, I have executed this instrument.

08,23,2018

Date

In the presence of:

(1)

Signature of Witness

GREGORY

Print Witness's Name

W ALAMEDA 4000 Print Witness's Address (A 91505

Ali Zandifar

In the presence of:

Signature of Witness

Print Witness's Name

4000 W Alamedy Ave

(2)

Print Witness's Address

Docket: D17021USP3

WHEREAS, Ian Godin, a resident of Santa Clarita, California, United States of America, herein referred to as ASSIGNOR, is an inventor and owner of US Patent Application No. 62/720,411, filed August 21, 2018, entitled "Tone-Curve Optimization Method and Associated Video Encoder and Video Decoder".

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 1275 Market Street, San Francisco, California 94103, hereinafter referred to as ASSIGNEE(S), is desirous of acquiring the entire right, title and interest in and to said application and the invention to which said application is directed, in and to any and all improvements relating to said invention, and in and to all patents thereon, when granted in the United States and all foreign countries;

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3

use in interference proceedings involving said invention, applications and patents, for use in opposition proceedings involving said invention, applications and patents, for refiling said applications, for filing of divisional, substitution, continuation or continuation-in-part applications deemed necessary or desirable by ASSIGNEE(S), for reissuance or reexamination of said patents, or for the filing in foreign countries of applications for patents counterpart to or in any way based on or relates to said application or to an application which is a division of, substitution of, continuation of, continuation-in-part of, said application or which application claims priority from or relates to said invention or improvements thereto. ASSIGNOR further covenants and agrees that at the expense and request of ASSIGNEE(S), he/she will promptly assist ASSIGNEE(S) in interference, opposition and reexamination proceedings involving said invention, applications and patents, and in litigation involving said invention, applications and patents, and will assist in the ascertainment of facts and the production of evidence relating to said invention, applications and patents.

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IN TESTIMONY WHEREOF, I have executed this instrument.

Aug. 24* 2018 Date

In the presence gi (1)ignature of Witness

ALI ZANOIFAR

Print Witness's Name

<u>4000 WAlumeda dve</u> Print Witness's Address Burbun & CA 91505

Ian Godin

In the presence of: (2)Signature of Witness

R1220 GREGORY

Print Witness's Name 4000 W ALAMEDA AVE

BUBANK, CA SISOS

Print Witness's Address

Docket: D17021USP3

RECORDED: 02/24/2020