502532828 10/15/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2578140

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIMIN LIU	10/24/2012
NING XU	10/25/2012
ALFRED SHE	10/25/2012
JAMES E. CRENSHAW	10/26/2012

RECEIVING PARTY DATA

Name:	DOLBY LABORATORIES LICENSING CORPORATION
Street Address:	100 Potrero Avenue
City:	San Francisco
State/Country:	CALIFORNIA
Postal Code:	94103-4813

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14054090

CORRESPONDENCE DATA

Fax Number: (415)645-4000 Phone: (415)645-5773 Email: bguil@dolby.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: **BIANCA MIYAKAWA**

Address Line 1: 475 BRANNAN STREET, SUITE 300

Address Line 4: SAN FRANCISCO, CALIFORNIA 94107-5420

ATTORNEY DOCKET NUMBER:	D12162US01/BM
NAME OF SUBMITTER:	BIANCA MIYAKAWA
Signature:	/Bianca Miyakawa/
	PATENT

PATENT REEL: 031407 FRAME: 0290 502532828

Date:	10/15/2013
Total Attachments: 8	
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PATENT REEL: 031407 FRAME: 0291

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE

Æ	APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE
Title of Invention	Systems and Methods for Transmitting Video Frames on
As the b	elow named inventor, I hereby declare that:
This dec	laration is directed to:
	The attached application, or
\boxtimes	United States application or PCT international application number: 61/715,235
	filed on October 17, 2012.
The abo	ve-identified application was made or authorized to be made by me.
I believe applicati	that I am the original inventor or an original joint inventor of a claimed invention in the on.

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 100 Potrero Avenue, San Francisco, California, 94103, hereinafter referred to as ASSIGNEE, 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, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR:

- 1. ASSIGNOR hereby grants, sells, assigns, transfers and conveys unto ASSIGNEE, or to the extent ASSIGNOR has already done so, ASSIGNOR hereby confirms the grant, sale, assignment, transfer and conveyance unto ASSIGNEE 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 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, ASSIGNOR had the full right to convey, free of all licenses and encumbrances, the entire right, title and interest hereby assigned.

Docket: <u>D12162USP1</u>

- 3. ASSIGNOR covenants and agrees that at the request and expense of ASSIGNEE he/she will promptly execute all papers deemed necessary or desirable by ASSIGNEE to perfect ownership of said invention, applications, and patents to ASSIGNEE, and execute all oaths, declarations and other papers deemed necessary or desirable by ASSIGNEE for prosecuting said applications and patents, for 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, 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, he/she will promptly assist ASSIGNEE 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, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, his/her heirs, legal representatives and assigns.

LEGAL N.	AME OF INVENTOR	
	Limin Liu	Date: $\frac{10/24/2012}{}$
Signature:		

Notarial Acknowledgement

STATE of CALIFORNIA)		
COUNTY OF JANTA CLAS) ss:)		
COUNTY OF SANTA CLAR On 10/24/20(2 b personally appeared Limin Liu, who prov	efore me,	R-C. SUSSEL	Notary Public,
personally appeared <u>Limin Liu</u> , who prov name is subscribed to the within instrumer authorized capacity, and that by his/her sig the person acted, executed the instrument.	nt and acknowle gnature on the ir	dged to me that he/she executed	the same in his/her
I certify under PENALTY OF PERJURY true and correct.	under the laws	of the State of California that the	foregoing paragraph is
WITNESS my hand and official seal.			
R. C. SINGH Commission # 1953520		02	
Notáry Public - California & Santa Clara County	,	Signature of Nota	ary Public
My Comm. Expires Oct 21, 2015	My Commis	sion Expires: 047	2015
[Seal]		-	7,710,000,000,000

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE Title of Systems and Methods for Transmitting Video Frames As the below named inventor, I hereby declare that: This declaration is directed to: The attached application, or United States application or PCT international application number: 61/715,235 filed on October 17, 2012. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 100 Potrero Avenue, San Francisco, California, 94103, hereinafter referred to as ASSIGNEE, 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, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR:

- 1. ASSIGNOR hereby grants, sells, assigns, transfers and conveys unto ASSIGNEE, or to the extent ASSIGNOR has already done so, ASSIGNOR hereby confirms the grant, sale, assignment, transfer and conveyance unto ASSIGNEE 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 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, 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 he/she will promptly execute all papers deemed necessary or desirable by ASSIGNEE to perfect ownership of said invention, applications, and patents to ASSIGNEE, and execute all oaths, declarations and other papers deemed necessary or desirable by ASSIGNEE for prosecuting said applications and patents, for 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, 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, he/she will promptly assist ASSIGNEE 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, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, his/her heirs, legal representatives and assigns.

LEGAL NAME OF INVENTOR

Inventor: Ning Xu

THE CONTROL .	A A A A A A A A A A A A A A A A A A A		
	4.	Section 1	
		100°	

Date: 10/25/2012

Signature:

Notarial Acknowledgement

STATE of CALIFORNIA)
COUNTY OF Los Angeles) ss:
On 10/25/2012 before me, the following St., Notary Public, personally appeared Ning Xu, who proved to me on the basis of satisfactory evidence to be the person whose name
is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/het authorized capacity, and that by his/het signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
TARROLL TO THE TARROL
PAUL LUNDQUIST COMM. #1821883 NOTARY PUBLIC - CALIFORNIA LOS ANGELES COUNTY My Commission Expires: 11/12/2012
MacComp. Expires November 8, 2012

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE			
Title of Invention	Systems and Methods for Transmitting Video Frames		
As the below	v named inventor, I hereby declare that:		
This declaration is directed to:			
The	e attached application, or		
☐ United States application or PCT international application number: 61/715,235			
filed	on <u>October 17, 2012</u> .		
The above-io	dentified application was made or authorized to be made by me.		
I believe that application.	t I am the original inventor or an original joint inventor of a claimed invention in the		

WHEREAS, DOLBY LABORATORIES LICENSING CORPORATION, a New York corporation, having a place of business at 100 Potrero Avenue, San Francisco, California, 94103, hereinafter referred to as ASSIGNEE, 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, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR:

- 1. ASSIGNOR hereby grants, sells, assigns, transfers and conveys unto ASSIGNEE, or to the extent ASSIGNOR has already done so, ASSIGNOR hereby confirms the grant, sale, assignment, transfer and conveyance unto ASSIGNEE 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 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, ASSIGNOR had the full right to convey, free of all licenses and encumbrances, the entire right, title and interest hereby assigned.

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LEGAL NAME OF INVENTOR

Inventor: Alfred She Date: Thirt Oct 25, 20	
---	--

Signature: Affil C. Ma

Notarial Acknowledgement

STATE of CALIFORNIA)		
COUNTY OF LOS Angles) ss:)	Å	
on 10/25/2012 be	efore me. Paul Lu	~dqu46	, Notary Public
personally appeared Alfred Site, who provi	en to me on the basis of sat	ustactory evidence to be	
name is subscribed to the within instrument			
authorized capacity, and that by his/her sign	nature on the instrument the	e person, or the entity u	ipon behalf of which
the person acted, executed the instrument.			

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

PAUL LUNDQUIST COMM. #1821883 NOTARY PUBLIC - CALIFORNIA LOS ANGELES COUNTY My Comm. Expires November 8, 2012

Signature of Notary Public

My Commission Expires: (1/23/2

Docket: <u>**D12162USP1**</u>

COMBINED DECLARATION (37 CFR L63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR L76) AND ASSIGMENT FOR SINGLE ASSIGNEE				
Title of Invention	Systems and Methods for Transmitting Video Frames			
As the belov	v named inventor, I hereby declare that:			
	tion is directed to: attached application, or			
g	ited States application or PCT international application number: 61/715,235 on October 17, 2012.			
The above-i	dentified application was made or authorized to be made by me.			
I believe that application.	t I am the original inventor or an original joint inventor of a claimed invention in the			

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

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

Inventor: James & Crenshay

Signature: Date: 26 0 0 20/2

Notarial Acknowledgement

COUNTY OF LOS ANGELES) ss;		
on (NOREA 26th 12012, t		MeNA	Notary Public
personally appeared <u>James E. Crenshaw</u> whose name is subscribed to the within in authorized capacity, and that by his/her sightle person acted, executed the instrument.	, who proved to me on the bar istrument and acknowledged t gnature on the instrument the	sis of satisfactory evid to me that he/s ite exec	lence to be the person uted the same in his/b et

I certify under PENALTY OF PERIURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

PABLO MENA
COMM. #1838926
COMM. #1838926
ED TO ALFORNIA
LOS ALIGERS COURTY
By Comm. Eping. February 28, 2013

| Commandation |

Signature of Notary Public

My Commission Expires: 02/26/26/3

Docket: D12162USP1

RECORDED: 10/15/2013