503751791 03/24/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3798437

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BENYUAN ZHANG	09/03/2013
WEN GAO	09/11/2013
KUMAR RAMASWAMY	09/09/2013
PAUL GOTHARD KNUTSON	09/11/2013
JOSHUA LAWRENCE KOSLOV	09/06/2013
MANOJ VISWAMBHARAN	10/05/2013
YIK CHUNG WU	09/04/2013

RECEIVING PARTY DATA

Name:	THOMSON LICENSING
Street Address:	1 RUE JEANNE D'ARC
City:	ISSY LES MOULINEAUX
State/Country:	FRANCE
Postal Code:	92130

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14078690

CORRESPONDENCE DATA

Fax Number: (609)734-6888

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.

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Email: adele.izzo@technicolor.com

Correspondent Name: ROBERT D. SHEDD, PATENT OPERATIONS THOMS

Address Line 1: 4 RESEARCH WAY 3RD FLOOR
Address Line 4: PRINCETON, NEW JERSEY 08540

ATTORNEY DOCKET NUMBER:	PU060093 CONTINUATION 2
NAME OF SUBMITTER:	JOSEPH J. OPALACH
SIGNATURE:	/Joseph J. Opalach/
DATE SIGNED:	03/24/2016

PATENT 503751791 REEL: 038090 FRAME: 0522

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7
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PATENT REEL: 038090 FRAME: 0523

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR TRANSMITTING DATA

the specification of which was filed on October 12, 2012 as Application Serial No. 13/651,332 and was amended on , or, if not identified here by filing date and serial number, is attached hereto.

The abova-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

Lacknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

Assignment and agreement in an application for letters patent

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, relissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in mylour name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may hence or by substituted for it.

i covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Philadelphia PA Date 9/3/
Inventor
Name Benyuan ZHANG
(Type or Print) (Signature in Full – No initials)

Post Office
Address 6 West Brook Drive, Cherry Hill, New Jersey 08003 US

1st Witness JOAA Li
(Type or Print) (Signature in Full – No initials)

(Nitness <u>FC1</u> Wan (Signature in Full – No Initials)

I believe I am the original inventor or an original joint inventor of the aubject matter which is claimed and for which a patent is SOUGHT ON the Invention entitled METHOD AND APPARATUS FOR TRANSMITTING DATA

the specification of which was filed on

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13/881,332

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Plainsboro Signed at

Inventor

Name Wen GAO (Type or Print)

Post Office 73 Warwick Rd. West Windsor, NJ 08550 US

Date

ionature in Full - No loilleis)

(Signature in Full - No Initials)

(Signature in Full - No Initials)

DECLARATION

Customer No. 24498

As a below named inventor, I hereby declare that

t believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR TRANSMITTING DATA the specification of which was filed on

October 12, 2012

as Application Serial No. 13/651,332 , or, if not identified here by flong date and serial number, is attached hereto and was amended on

The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duty organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

i agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths. make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors,

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to sid said corporation, its successors, assigns and legal representatives or nominees to obtain or enforce proper protection to: said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of industrial Property, as amended, or by any convention which may henceforth be substituted for it.

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Signed at inventor

Name

Date

Kumar RAMASWAMY (Type or Print)

Post Office Address

71 Sayre Drive, Princeton, New Jersey 08540-5814 US

Signature Full -- No initials)

PATENT

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR TRANSMITTING DATA

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13/651,332

and was amended on

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I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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national or PCT International filing date of the continuation-in-part application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

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NOIANAPOLIS Signed at

Date

Inventor

Name

Paul Gothard KNUTSON

(Type or Print)

Post Office

Address 14848 Shelbome Road, Westfield, Indiana 46074

PATENT

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inventor

Name

Joshua Lawrence KOSLOV

(Type or Print)

Post Office

Address 10 Fairway Drive, Hopewell, New Jersey 08525 US

1st Witness (Type or Print)

(Signature in Full - No initials)

(Signature in Full - No Initials)

PATENT REEL: 038090 FRAME: 0528

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR TRANSMITTING DATA

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Inventor

Name Manoj VISWAMBHARAN

(Type or Print)

Post Office

Address 159 Woodcliff Boulevard, Morganville, New Jersey 07751 US

1" Witness

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(Signature in Full - No Initials)

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signed at The University of Hong Krap, f	
Inventor	
Post Office Rm 714, Chew Yes Ching Builderess 2 Independence Way, Princelon, New Yester	(Signature in Furth No initials) diry, The University of Hong Kong, Hong Kong 5.21.20 4 Sep Sep 1
1" Witness Cintiang Su (Type or Print)	<u>-1811/10/04/10/10</u>
D- 1	// (Signature in Full – No Initials) // // // // // // // // // // // // //
2 nd Wilness 12 / h 140 (Type or Print)	(Signature in Full – No Initials)

PATENT