## 504075009 10/31/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4121676

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
VINAY POLAVARAPU	10/31/2016
ALEXEY IMAEV	10/28/2016
ALEXANDER ZILBERSHTEIN	10/31/2016
PAUL DUREE	10/31/2016
RICHARD KERN	10/31/2016

#### **RECEIVING PARTY DATA**

Name:	VERIZON PATENT AND LICENSING INC.	
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City:	BASKING RIDGE	
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Postal Code:	07920	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15339607

#### **CORRESPONDENCE DATA**

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Correspondent Name: ALG INTELLECTUAL PROPERTY, LLC

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ATTORNEY DOCKET NUMBER:	20160585
NAME OF SUBMITTER:	TRAVIS K. LAIRD
SIGNATURE:	/Travis K. Laird/
DATE SIGNED:	10/31/2016
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**Total Attachments: 5** 



#### DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Generating Stitched Video Content From Multiple Overlapping and Concurrently-Generated Video Instances

the patent application for which:  is being filed concurrently herewith. Application Number to be assigned by the USPTO, or  was filed on as United States Application Number or PCT International Application Number
Declaration of Inventor
As the below named inventor, I hereby declare that:
<ul> <li>the above-identified application was made or authorized to be made by me;</li> <li>I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and</li> <li>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.</li> </ul>
Inventor Assignment Acknowledgement
For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows:
A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property.
B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense).; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns.
C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NI 07920 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:
Full legal name of Inventor: Vinay Polavarapu
Address: 9009 Fox Hollow Ln, Irving, TX 75063 US

Signature: Wingy Comes Date: 10/31/2016

### **DECLARATION AND ASSIGNMENT** FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Generating Stitched Video Content From Multiple Overlapping and Concurrently-Generated Video Instances

Concurrently-Generated video	instances	
the patent application for which:	: erewith, Application Number to be assigned	by the USPTO, or
	United States Application Number	
	<u>Declaration of Inventor</u>	
As the below named inventor, I hereby de	eclare that:	
<ul> <li>I believe that I am the original is application; and</li> </ul>		imed invention in the above-referenced on is punishable under 18 U.S.C. § 1001 by fine
	Inventor Assignment Acknowledgeme	e <u>nt</u>
For good and valuable consideration, the	receipt of which is hereby acknowledged, I	agree as follows:
right, title and interest in and to any and a and to said application and all divisional, or registrations for Letters Patent which inventions or ideas, or based on or claiming been or shall be issued in the United Stat of priority resulting from the filing of an	all inventions and other ideas described in the continuing (in whole or in part), substitute, have been or shall be filed in the United Stang priority to said application; and in and to see and foreign countries from any of said applications or registrations (all cation, patents, utility models, industrial de	ng its successors and assigns, my entire worldwide above-identified patent application, as well as in renewal, reissue, provisional or other application ates and all foreign countries based on any of said all original and reissued Letters Patent which have oplications or registrations; and in and to all right ollectively, the "Patent Rights"). Letters Patent asigns, and any other form of industrial property
all rightful oaths, declarations, assignmen (or its successors and/or assigns) without representatives) as my attorney-in-fact, so authority in my place and stead and in my necessary or advisable to accomplish the (ii) in my name where permitted by law; known to me relating to said Patent Right	ats, powers of attorney and other papers related to compensation (but at Assignee's expense) such appointment being irrevocable and coupy name to take any action and to execute any purposes of this assignment, including the equivalent to the communicate to Assignee, its successits and the history thereof; and (v) to general ansider desirable for aiding in securing and management.	tent Rights in its own name; (ii) that I will executed to the Patent Rights when requested by Assigned; (iii) that I appoint Assignee (acting through its bled with the interest in the Patent Rights, with fully document which Assignee may deem reasonably execution and filing of the papers identified in parsors, assigns, representatives and agents, all factually do everything which Assignee, its successors naintaining proper protection for said Patent Rights
	sors and assigns, that no assignment, grant, 1 me, and that full right to convey the same a	mortgage, license, or other agreement affecting the s set forth herein is possessed by me.
ASSIGNEE: Verizon Patent Basking Ridge, NJ 0		on with a place of business at One Verizon Way
IN WITNESS to my agreement to the for as set forth below:	regoing Declaration of Inventor and Invento	r Assignment Acknowledgement, I have executed
Full legal name of Inventor: Alexey Ima	ev	
Address: 295 York St. Apt. 3A, Jersey C		
Signature: Almay		

**PATENT** REEL: 040178 FRAME: 0647

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#### DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

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Patent Application Title: Methods and Systems for Generating Stitched Video Content From Multiple Overlapping and Concurrently-Generated Video Instances the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on \_\_\_\_\_ as United States Application Number \_\_\_\_ or PCT International Application Number Declaration of Inventor As the below named inventor, I hereby declare that: 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 above-referenced application; and I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both. Inventor Assignment Acknowledgement For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows: A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property. B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof, and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns. C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me. Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, ASSIGNEE: Basking Ridge, NJ 07920 US IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below: Full legal name of Inventor: Alexander Zilbershtein Address: 50 Willow Pkwy, Buffalo Grove, IL 60089 US Signature:

1

# **DECLARATION AND ASSIGNMENT**

FOR PATENT APPLICATION
Patent Application Title: Methods and Systems for Generating Stitched Video Content From Multiple Overlapping and Concurrently-Generated Video Instances
the patent application for which:  is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on as United States Application Number or PCT International Application Number or PCT International Application Number or PCT International Application Number
Declaration of Inventor
As the below named inventor, I hereby declare that:
<ul> <li>the above-identified application was made or authorized to be made by me;</li> <li>I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and</li> <li>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine</li> </ul>
or imprisonment of not more than five (5) years, or both.
Inventor Assignment Acknowledgement
For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows:
A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property.
B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns.
C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way, Basking Ridge, NJ 07920 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:
Full legal name of Inventor: Paul Duree
Address: 1671 San Tomas Aquino Rd, San Jose, CA 95130 US
Signature: P. Date: 10 31 2016

### **DECLARATION AND ASSIGNMENT** FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Generating Stitched Video Content From Multiple Overlapping and Concurrently-Generated Video Instances

**RECORDED: 10/31/2016** 

Concentently Constitued Titolo Instances
the patent application for which:
is being filed concurrently herewith, Application Number to be assigned by the USPTO, or
was filed on as United States Application Number or PCT International Application Number
<u>Declaration of Inventor</u>
As the below named inventor, I hereby declare that:
• 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 above-referenced
<ul> <li>application; and</li> <li>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine</li> </ul>
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C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: Verizon Patent and Licensing Inc., a Delaware Corporation with a place of business at One Verizon Way. Basking Ridge, NJ 07920 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:
Full legal name of Inventor: Richard Kern
Address: 1232 Frieda St, Dickson City, PA 18519 US
Signature:
orginature. Date

**PATENT REEL: 040178 FRAME: 0650**  1