

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3165340

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOSEPH KIOK | 10/12/2011 |
| GREGORY ALLEN BROOME | 11/04/2011 |
| RICHARD JOSEPH FLIAM | 10/18/2011 |
| SAM SCHWARTZ | 09/28/2011 |
| KEVIN CHRISTOPHER FLANAGAN | 10/03/2011 |
| RECEIVING PARTY DATA | |
| Name: | COMCAST CABLE COMMUNICATIONS, LLC |
| Street Address: | 1701 JFK BOULEVARD |
| City: | PHILADELPHIA |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 19103 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14582290 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)824-3001 |
| <i>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.</i> | |
| Phone: | (202) 824-3000 |
| Email: | bwptopat@bannerwitcoff.com, msigur@bannerwitcoff.com |
| Correspondent Name: | BANNER & WITCOFF, LTD. |
| Address Line 1: | 1100 13TH ST. NW |
| Address Line 2: | STE 1200 |
| Address Line 4: | WASHINGTON, D.C. 20005 |
| ATTORNEY DOCKET NUMBER: | 007412.02890 |
| NAME OF SUBMITTER: | BETTY E. LEE |
| SIGNATURE: | /Betty E. Lee/ |
| DATE SIGNED: | 12/30/2014 |
| Total Attachments: 13 | |
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ASSIGNMENT

Attorney Docket No.: **007412.01482 and 007412.01484**

Serial Numbers: 61/442,628 and

Filing Dates: February 14, 2011 and

Inventors: Joseph Kiok, Allen Broome, Richard Fliam, Sam Schwartz and Kevin Flanagan

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assign to:

COMCAST CABLE COMMUNICATIONS, LLC

having a place of business at 1701 JFK Boulevard, Philadelphia, PA 19103, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in applications for Letters Patent of the United States, entitled:

IMAGE SAMPLING FROM MULTICAST STREAMS

and identified as Attorney Docket No. 007412.01482 and 007412.01484 in the offices of Banner & Witcoff, Ltd. and in said applications and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said applications to insert in this assignment the filing date and serial number of said applications when officially known.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations and without additional charge the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said applications and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations and without additional charge the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of and without additional charge to said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be

granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date:

Joseph Kiok

Date:


Witness

Date:

Witness

Date:

11-4-2011


Allen Broome

Date:

Witness

Date:

Witness

Date:

Richard Fliam

Date:

Witness

Date:

Witness

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PATENT**REEL: 034600 FRAME: 0051**

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Date: _____
_____ **Joseph Kiok**

Date: _____
_____ Witness

Date: _____
_____ Witness

Date: _____
_____ **Allen Broome**

Date: _____
_____ Witness

Date: _____
_____ Witness

Date: _____
_____ **Richard Fliam**

Date: _____
_____ Witness

Date: _____
_____ Witness

Date:

Sam Schwartz

Date:

Witness

Date:

Witness


Date:

10/3/2011


Kevin Flanagan

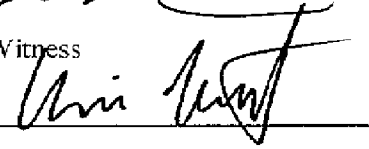
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Witness

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10/3/2011


Witness

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PATENT**REEL: 034600 FRAME: 0054**

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Date:

Joseph Kiok

Date:

Witness

Date:

Witness

Date:

Allen Broome

Date:

Witness

Date:

Witness

Date:

Richard Flamm

Date:

Witness

Date:

Witness

Date:

Sam Schwartz

Date:

Witness

Date:

Witness

Date:

Kevin Flanagan

Date:

Witness

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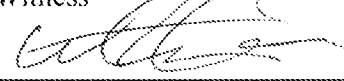
PATENT

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Date: 10/12/11 
Joseph Kiok

Date: 10/12/11 
RICHARD GUYAN GEO
Witness

Date: 10/12/11 
William Tan
Witness

Date: _____
Allen Broome

Date: _____
Witness

Date: _____
Witness

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Richard Fliam

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Date: _____
_____ **Richard Fliam**

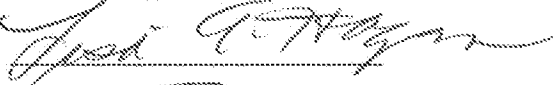
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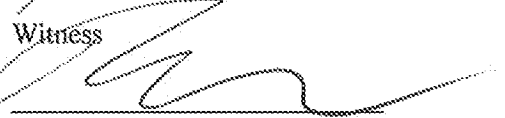
Date: 9/28/2011


Sam Schwartz

Date: 9/28/2011



Date: 9/28/2011

Witness 

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Date: _____

Kevin Flanagan

Date: _____

Witness

Date: _____

Witness