

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT4020262

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WENDELL SUN	06/28/2012
STEVEN ANDERSON	06/29/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GENERAL INSTRUMENT CORPORATION
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15087814
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)938-5200
<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>	
<b>Phone:</b>	650.335.7821
<b>Email:</b>	ckenyon@fenwick.com
<b>Correspondent Name:</b>	EDGAR PEREZ
<b>Address Line 1:</b>	801 CALIFORNIA STREET
<b>Address Line 4:</b>	MOUNTAIN VIEW, CALIFORNIA 94041
<b>ATTORNEY DOCKET NUMBER:</b>	/24207-33414/US/
<b>NAME OF SUBMITTER:</b>	EDGAR PEREZ
<b>SIGNATURE:</b>	/Edgar Perez/
<b>DATE SIGNED:</b>	08/23/2016
<b>Total Attachments: 4</b>	
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PATENT

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Wendell Sun and Steven Anderson**; have sold, assigned and transferred, and do hereby sell, assign and transfer, unto GENERAL INSTRUMENT CORPORATION, a corporation of the State of Delaware, having its principal office in Horsham, State of Pennsylvania, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions entitled "**DEVICES, SYSTEMS, AND METHODS FOR ADAPTIVE SWITCHING OF MULTICAST CONTENT DELIVERY TO OPTIMIZE BANDWIDTH USAGE**" as described, illustrated in Motorola Disclosure ID 63398 (CS39220) and as described, illustrated and claimed in the following applications:

- 1.) U.S. Application No. TBD, filed on Herewith entitled "**DEVICES, SYSTEMS, AND METHODS FOR ADAPTIVE SWITCHING OF MULTICAST CONTENT DELIVERY TO OPTIMIZE BANDWIDTH USAGE**"

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to other applications for Letters Patent on the inventions referenced in this Assignment and Agreement, and all rights, title and interest in and to all applications for Letters Patent in respect of the invention filed under any and all international conventions and treaties together with the entire right, title and interest in and to Letters Patent which may be issued upon the application(s) or any application(s) otherwise claiming priority thereto, and upon any divisions, extensions, continuations, reissues and/or re-examinations of such application(s).

I further authorize Assignee to apply for Letters Patent directly in its own name where applicable, and to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties.

I hereby authorize Assignee to request the Commissioner of Patents of the United States of America to issue any Letters Patents upon the aforesaid application, divisions, extensions, continuations, reissues or re-examinations, to Assignee, for the sole use and benefit of Assignee, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and I hereby authorize

Assignee to request the equivalent authorities in foreign countries to issue the patents of their respective countries to Assignee.

I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for the inventions in any and all countries and for vesting title thereto in Assignee.

I covenant with Assignee that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

Wendell Sun DATE: 6/28/2012  
Wendell Sun

State of California )  
County of San Diego )ss

On June 28, 2012, before me, Sandra Jenkins, Notary Public  
Date Name of Notary Public

personally appeared Wendell Sun  
Name(s) of Signer(s)

Who proved to me on the basis of satisfactory evidence to be the person(s) who name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Place Notary Seal Above

Signature Sandra Jenkins  
Signature of Notary Public

Steven Anderson DATE: 6/29/2012

State of California )  
County of San Diego )ss

On June 29, 2012, before me Sandra Jenkins, Notary Public  
Date Name of Notary Public

personally appeared Steven Anderson  
Name(s) of Signer(s)

Who proved to me on the basis of satisfactory evidence to be the person(s) who name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Signature Sandra Jenkins  
Signature of Notary Public



Place Notary Seal Above