

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|-------------------------|---------------|-----------------------|---------------------|-------------------------|-------------|--------------|----------------|----------|--------------|-------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Arjun Ramamurthy</td> <td>08/21/2013</td> </tr> <tr> <td>Ajay Luthra</td> <td>08/21/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Arjun Ramamurthy | 08/21/2013 | Ajay Luthra | 08/21/2013 | | | | |
| Name | Execution Date | | | | | | | | | | |
| Arjun Ramamurthy | 08/21/2013 | | | | | | | | | | |
| Ajay Luthra | 08/21/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Motorola Mobility LLC</td> </tr> <tr> <td>Street Address:</td> <td>600 North US Highway 45</td> </tr> <tr> <td>City:</td> <td>Libertyville</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60048</td> </tr> </table> | | Name: | Motorola Mobility LLC | Street Address: | 600 North US Highway 45 | City: | Libertyville | State/Country: | ILLINOIS | Postal Code: | 60048 |
| Name: | Motorola Mobility LLC | | | | | | | | | | |
| Street Address: | 600 North US Highway 45 | | | | | | | | | | |
| City: | Libertyville | | | | | | | | | | |
| State/Country: | ILLINOIS | | | | | | | | | | |
| Postal Code: | 60048 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13939314</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13939314 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13939314 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: 8475232350 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 8475231276 Email: docketing.mobility@motorola.com Correspondent Name: Motorola Mobility LLC Address Line 1: 600 North US Highway 45 Address Line 4: Libertyville, ILLINOIS 60048</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | CS39808 | | | | | | | | | | |
| NAME OF SUBMITTER: | Nanette B. Orr | | | | | | | | | | |
| Signature: | /Nanette B. Orr/ | | | | | | | | | | |
| Date: | 09/26/2013 | | | | | | | | | | |

Total Attachments: 4

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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **ARJUN RAMAMURTHY, SAN DIEGO, CALIFORNIA AND AJAY LUTHRA, SAN DIEGO, CALIFORNIA**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA MOBILITY LLC**, a Limited Liability Company of the State of Delaware, having its principal office in Libertyville, State of Illinois, 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 "**Efficient Adaptive Bitrate HTTP Streaming**" as described, illustrated in Motorola Disclosure ID **(65041) CS39808** and as described, illustrated and claimed in the following applications:

- 1.) U.S. Application No. **13/939314**, filed on **July 11, 2013** entitled "**METHODS AND DEVICES FOR EFFICIENT ADAPTIVE BITRATE STREAMING**"; and
2. U.S. Application No. **61812256**, filed on **April 16, 2013** entitled "**EFFICIENT ADAPTIVE BITRATE HTTP STREAMING**"; and
- 3.) U.S. Application No. **61704651**, filed on **September 24, 2012** entitled "**EFFICIENT ADAPTIVE BITRATE HTTP STREAMING.**"

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.

Arjun Ramamurthy

08/21/13

DATE: _____

ARJUN RAMAMURTHY

State of California)

County of San Diego)ss

On Aug 21, 2013, before me, Sandra Jenkins, Notary Public
Date Name of Notary Public

personally appeared Arjun Ramamurthy
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

A. Luthra

AJAY LUTHRA

DATE: 8/21/2013

State of California)

County of San Diego)ss

On Aug. 21, 2013, before me, Sandra Jenkins, Notary Public
Date Name of Notary Public

personally appeared Ajay Luthra
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.



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