

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>ETHAN Y. CHEN</td><td>11/21/2011</td></tr><tr><td>ANATOLY AGULNIK</td><td>11/21/2011</td></tr><tr><td>FRANK F. LIANG</td><td>11/28/2011</td></tr><tr><td>WEI MAO</td><td>11/21/2011</td></tr><tr><td>TRENT J. MILLER</td><td>11/22/2011</td></tr><tr><td>FRANCESCA SCHULER</td><td>11/22/2011</td></tr></tbody></table> | | Name | Execution Date | ETHAN Y. CHEN | 11/21/2011 | ANATOLY AGULNIK | 11/21/2011 | FRANK F. LIANG | 11/28/2011 | WEI MAO | 11/21/2011 | TRENT J. MILLER | 11/22/2011 | FRANCESCA SCHULER | 11/22/2011 |
| Name | Execution Date | | | | | | | | | | | | | | |
| ETHAN Y. CHEN | 11/21/2011 | | | | | | | | | | | | | | |
| ANATOLY AGULNIK | 11/21/2011 | | | | | | | | | | | | | | |
| FRANK F. LIANG | 11/28/2011 | | | | | | | | | | | | | | |
| WEI MAO | 11/21/2011 | | | | | | | | | | | | | | |
| TRENT J. MILLER | 11/22/2011 | | | | | | | | | | | | | | |
| FRANCESCA SCHULER | 11/22/2011 | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>MOTOROLA SOLUTIONS, INC.</td></tr><tr><td>Street Address:</td><td>1303 E. ALGONQUIN ROAD</td></tr><tr><td>Internal Address:</td><td>LAW DEPARTMENT</td></tr><tr><td>City:</td><td>SCHAUMBURG</td></tr><tr><td>State/Country:</td><td>ILLINOIS</td></tr><tr><td>Postal Code:</td><td>60196</td></tr></table> | | Name: | MOTOROLA SOLUTIONS, INC. | Street Address: | 1303 E. ALGONQUIN ROAD | Internal Address: | LAW DEPARTMENT | City: | SCHAUMBURG | State/Country: | ILLINOIS | Postal Code: | 60196 | | |
| Name: | MOTOROLA SOLUTIONS, INC. | | | | | | | | | | | | | | |
| Street Address: | 1303 E. ALGONQUIN ROAD | | | | | | | | | | | | | | |
| Internal Address: | LAW DEPARTMENT | | | | | | | | | | | | | | |
| City: | SCHAUMBURG | | | | | | | | | | | | | | |
| State/Country: | ILLINOIS | | | | | | | | | | | | | | |
| Postal Code: | 60196 | | | | | | | | | | | | | | |
| 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>13305938</td></tr></tbody></table> | | Property Type | Number | Application Number: | 13305938 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 13305938 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
| Fax Number: | (847)576-3750 | | | | | | | | | | | | | | |
| Phone: | 847-576-5217 | | | | | | | | | | | | | | |
| Email: | USAdocketing@motorolasolutions.com | | | | | | | | | | | | | | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | | | | | | | | | | | | | | | |
| Correspondent Name: | MOTOROLA SOLUTIONS, INC. IP Law Docketin | | | | | | | | | | | | | | |
| Address Line 1: | 1301 EAST ALGONQUIN ROAD | | | | | | | | | | | | | | |
| Address Line 2: | IL02 5th Floor - SH5 | | | | | | | | | | | | | | |
| Address Line 4: | SCHAUMBURG, ILLINOIS 60196 | | | | | | | | | | | | | | |

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PATENT
REEL: 027291 FRAME: 0535

CH \$40.00 13305938

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| ATTORNEY DOCKET NUMBER: | CM14353 |
| NAME OF SUBMITTER: | SHEILA MANNERINO |
| <p>Total Attachments: 14</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page1.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page2.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page3.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page4.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page5.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page6.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page7.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page8.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page9.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page10.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page11.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page12.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page13.tif</p> <p>source=CM14353_USA_EXECUTED_ASSIGNMENT#page14.tif</p> | |

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **ETHAN Y. CHEN, WILMETTE, IL; ANATOLY AGULNIK, DEERFIELD, IL; FRANK F. LIANG, LISLE, IL; WEI MAO, PALATINE, IL; TRENT J. MILLER, WEST CHICAGO, IL; AND FRANCESCA SCHULER, PALATINE, IL** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA SOLUTIONS, INC.**, a corporation of the State of Delaware, having its principal office in Schaumburg, 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 relating to improvements in **METHOD AND APPARATUS FOR MANAGING QUALITY OF SERVICE SETTINGS FOR GROUP COMMUNICATIONS** (Docket No **CM14353**), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any non-provisional, division, extension, continuation, re-examination, or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA SOLUTIONS, INC.**, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize **MOTOROLA SOLUTIONS, INC.** to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to **MOTOROLA SOLUTIONS, INC.**, for the sole use and benefit of **MOTOROLA SOLUTIONS, INC.**, its successors, assigns and legal representatives, 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 we hereby authorize and request the equivalent

authorities in foreign countries to issue the patents of their respective countries to MOTOROLA SOLUTIONS, INC.

We agree that, when requested, we will, without charge to MOTOROLA SOLUTIONS, INC., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in MOTOROLA SOLUTIONS, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA SOLUTIONS, INC., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.



ETHAN Y. CHEN

DATE: 11/21/11


STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **ETHAN Y. CHEN** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

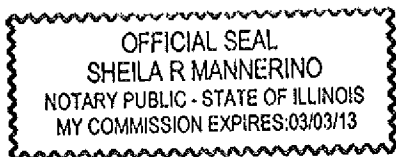
Given under my hand and notarial seal this 21st day of November, 2011.

My commission expires:



Notary Public Signature
SHEILA R. MANNERINO

Printed Name of Notary Public



Anatoly Agulnik
ANATOLY AGULNIK

DATE: 11-21-11

STATE OF IL

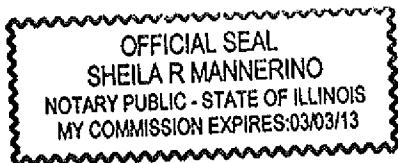
COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **ANATOLY AGULNIK** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 21st day of November, 2011.

My commission expires:

Sheila R. Mannerino
Notary Public Signature
SHEILA R. MANNERINO
Printed Name of Notary Public



FRANK F. LIANG DATE: _____

STATE OF _____

COUNTY OF _____

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **FRANK F. LIANG** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2011.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

Mr. Wei Mao
WEI MAO

DATE: Nov. 21, 2011

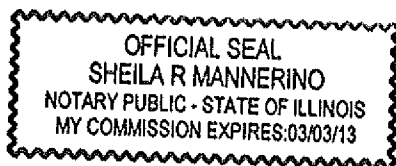
STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **WEI MAO** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 21st day of November, 2011.

My commission expires:



Sheila R. Mannerino
Notary Public Signature
SHEILA R. MANNERINO
Printed Name of Notary Public

Trent J. Miller
TRENT J. MILLER

DATE: 11/22/2011

STATE OF IL

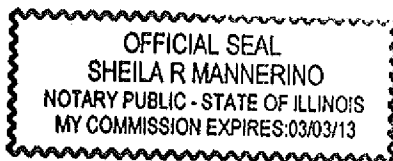
COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **TRENT J. MILLER** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 22nd day of November, 2011.

My commission expires:

Sheila R. Mannerino
Notary Public Signature
SHEILA R. MANNERINO
Printed Name of Notary Public



Francesca Schuler

FRANCESCA SCHULER

DATE: 11/22/2011

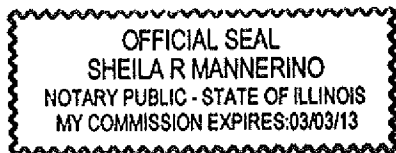
STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **FRANCESCA SCHULER** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 22nd day of November, 2011.

My commission expires:



Sheila R. Mannerino
Notary Public Signature
SHEILA R. MANNERINO
Printed Name of Notary Public

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **ETHAN Y. CHEN, WILMETTE, IL; ANATOLY AGULNIK, DEERFIELD, IL; FRANK F. LIANG, LISLE, IL; WEI MAO, PALATINE, IL; TRENT J. MILLER, WEST CHICAGO, IL; AND FRANCESCA SCHULER, PALATINE, IL** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA SOLUTIONS, INC.**, a corporation of the State of Delaware, having its principal office in Schaumburg, 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 relating to improvements in **METHOD AND APPARATUS FOR MANAGING QUALITY OF SERVICE SETTINGS FOR GROUP COMMUNICATIONS** (Docket No **CM14353**), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any non-provisional, division, extension, continuation, re-examination, or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA SOLUTIONS, INC.**, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize **MOTOROLA SOLUTIONS, INC.** to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to **MOTOROLA SOLUTIONS, INC.**, for the sole use and benefit of **MOTOROLA SOLUTIONS, INC.**, its successors, assigns and legal representatives, 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 we hereby authorize and request the equivalent

authorities in foreign countries to issue the patents of their respective countries to MOTOROLA SOLUTIONS, INC.

We agree that, when requested, we will, without charge to MOTOROLA SOLUTIONS, INC., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in MOTOROLA SOLUTIONS, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA SOLUTIONS, INC., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

ETHAN Y. CHEN DATE: _____

STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **ETHAN Y. CHEN** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2011.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

ANATOLY AGULNIK

DATE: _____

STATE OF IL

COUNTY OF COOK

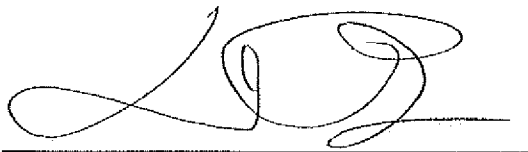
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **ANATOLY AGULNIK** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2011.

My commission expires:

Notary Public Signature

Printed Name of Notary Public



FRANK F. LIANG

DATE: 11/28/2011

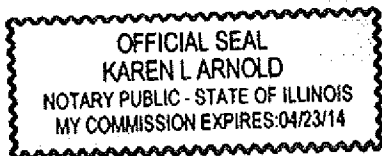
STATE OF Illinois

COUNTY OF DuPage

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **FRANK F. LIANG** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 28th day of November, 2011.

My commission expires: 04-23-14



Karen L. Arnold
Notary Public Signature

Karen L. Arnold
Printed Name of Notary Public

WEI MAO

DATE: _____

STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **WEI MAO** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2011.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

TRENT J. MILLER

DATE: _____

STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **TRENT J. MILLER** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2011.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

FRANCESCA SCHULER

DATE: _____

STATE OF IL

COUNTY OF COOK

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **FRANCESCA SCHULER** whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2011.

My commission expires:

Notary Public Signature

Printed Name of Notary Public