

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Ruben D Castano | 10/20/2008 |
| Mark D Zaveson | 10/07/2008 |
| Stephen M Christopher | 12/11/2008 |
| Yiting Hu | 09/30/2008 |
| Renee M Garnham | 09/30/2008 |
| RECEIVING PARTY DATA | |
| Name: | Motorola, Inc. |
| Street Address: | 1303 E. Algonquin Road |
| Internal Address: | IL01-3rd Floor |
| City: | Schaumburg |
| State/Country: | ILLINOIS |
| Postal Code: | 60196 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 29322462 |
| CORRESPONDENCE DATA | |
| Fax Number: | (847)523-2350 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | 847-523-2345 |
| Email: | docketing.libertyville@motorola.com |
| Correspondent Name: | Motorola. Inc. |
| Address Line 1: | 600 North U.S. Highway 45 |
| Address Line 4: | Libertyville, ILLINOIS 60048 |
| ATTORNEY DOCKET NUMBER: | CS35885RS |
| NAME OF SUBMITTER: | Denice Krueger |

CH \$40.00 29322462

500734942

PATENT
REEL: 022001 FRAME: 0699

Total Attachments: 24

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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **YITING HU, CHICAGO, ILLINOIS; RUBEN D. CASTANO, GLENVIEW, ILLINOIS; STEPHEN M. CHRISTOPHER, CHICAGO, ILLINOIS; RENEE M. GARNHAM, DEARBORN, MICHIGAN; MARK D. ZAVESON, ANTIOCH, ILLINOIS** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA, 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 **COMMUNICATION DEVICE** (Docket No. **CS35885RS**, Filed on **August 5, 2008**; as Serial Number **29/322,462**), 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 division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA, 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, 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, INC.**, for the sole use and benefit of **MOTOROLA, 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, INC.**

We agree that, when requested, we will, without charge to **MOTOROLA, 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, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA, 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.

DATE: _____

YITING HU

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **YITING HU**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

RUBEN D. CASTANO

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RUBEN D. CASTANO**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

STEPHEN M. CHRISTOPHER

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **STEPHEN M. CHRISTOPHER**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

RENEE M. GARNHAM

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RENEE ;M. GARNHAM**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

Mark D. Zaveson
MARK D. ZAVESON

DATE: 10/7/08

STATE OF Illinois

COUNTY OF Lake

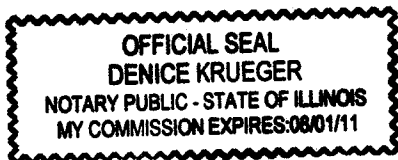
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The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARK D. ZAVESON**, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed 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 notary seal this 7th day of October, 2008.

My commission expires:

Denice Krueger
Notary Public Signature
Denice Krueger
Printed Name of Notary Public



ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **YITING HU, CHICAGO, ILLINOIS; RUBEN D. CASTANO, GLENVIEW, ILLINOIS; STEPHEN M. CHRISTOPHER, CHICAGO, ILLINOIS; RENEE M. GARNHAM, DEARBORN, MICHIGAN; MARK D. ZAVESON, ANTIOCH, ILLINOIS** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA, 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 **COMMUNICATION DEVICE** (Docket No. **CS35885RS, Filed on August 5, 2008; as Serial Number 29/322,462**), 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 division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA, 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, 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, INC.**, for the sole use and benefit of **MOTOROLA, 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, INC.**

We agree that, when requested, we will, without charge to **MOTOROLA, 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, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA, 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.

YITING HU

DATE: _____

STATE OF Illinois)
COUNTY OF)ss
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The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **YITING HU**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

[Handwritten Signature]

RUBEN D. CASTANO

DATE: 10.20.2008

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RUBEN D. CASTANO**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

Witness 1 =

Vivian Wei

Oct. 20, 08

Vivian Wei

Witness 2 =

[Handwritten Signature]

Oct. 20, 08

Jessie Wang

STEPHEN M. CHRISTOPHER

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **STEPHEN M. CHRISTOPHER**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

PATENT

REEL: 022001 FRAME: 0710

RENEE M. GARNHAM

DATE: _____

STATE OF Illinois

COUNTY OF

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The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RENEE ;M. GARNHAM**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

MARK D. ZAVESON

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARK D. ZAVESON**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **YITING HU, CHICAGO, ILLINOIS; RUBEN D. CASTANO, GLENVIEW, ILLINOIS; STEPHEN M. CHRISTOPHER, CHICAGO, ILLINOIS; RENEE M. GARNHAM, DEARBORN, MICHIGAN; MARK D. ZAVESON, ANTIOCH, ILLINOIS** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA, 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 **COMMUNICATION DEVICE** (Docket No. **CS35885RS, Filed on August 5, 2008; as Serial Number 29/322,462**), 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 division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA, 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, 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, INC.**, for the sole use and benefit of **MOTOROLA, 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, INC.**

We agree that, when requested, we will, without charge to **MOTOROLA, 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, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA, 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.

DATE: _____

YITING HU

STATE OF Illinois)
COUNTY OF)ss
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The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **YITING HU**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

RUBEN D. CASTANO

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)


The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RUBEN D. CASTANO**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public



STEPHEN M. CHRISTOPHER

DATE: 12-11-08

STATE OF Illinois)
COUNTY OF COOK)ss

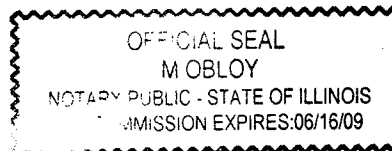
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **STEPHEN M. CHRISTOPHER**, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free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

Given under my hand and notary seal this 11 day of December, 2008.

My commission expires: 06/16/09


Notary Public Signature

MICHAEL OBLOY
Printed Name of Notary Public



RENEE M. GARNHAM

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RENEE ;M. GARNHAM**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

MARK D. ZAVESON

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARK D. ZAVESON**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **YITING HU, CHICAGO, ILLINOIS; RUBEN D. CASTANO, GLENVIEW, ILLINOIS; STEPHEN M. CHRISTOPHER, CHICAGO, ILLINOIS; RENEE M. GARNHAM, DEARBORN, MICHIGAN; MARK D. ZAVESON, ANTIOCH, ILLINOIS** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA, 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 **COMMUNICATION DEVICE** (Docket No. **CS35885RS, Filed on August 5, 2008; as Serial Number 29/322,462**), 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 division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA, 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, 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, INC.**, for the sole use and benefit of **MOTOROLA, 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, INC.**

We agree that, when requested, we will, without charge to **MOTOROLA, 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, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA, 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.

YITING HU

DATE: 09/30/08

STATE OF Illinois)
COUNTY OF COOK)ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **YITING HU**, 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 notary seal this 30th day of September, 2008.

My commission expires: 2.03.2011



Lori Hess
Notary Public Signature

LORI HESS
Printed Name of Notary Public

RUBEN D. CASTANO

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RUBEN D. CASTANO**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

STEPHEN M. CHRISTOPHER

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **STEPHEN M. CHRISTOPHER**, 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 notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

MARK D. ZAVESON

DATE: _____

STATE OF Illinois)
)ss
COUNTY OF)

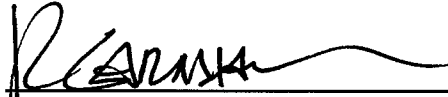
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARK D. ZAVESON**, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary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

Given under my hand and notary seal this _____ day of _____, 2008.

My commission expires:

Notary Public Signature

Printed Name of Notary Public



RENEE M. GARNHAM

DATE: 9/30/08

STATE OF Illinois

COUNTY OF

COOK

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The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RENEE ;M. GARNHAM**, 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 notary seal this 30th day of September, 2008.

My commission expires: 2.03.2011




Notary Public Signature

LORI HESS
Printed Name of Notary Public