

07-09-2001

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11000 U.S. PTO
09/886642
06/21/01

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please record the attached original documents or copy thereof.

06/21/01

1. Name of Conveying party(ies): IVAN N. VUKOVIC, and TYLER BROWN

2. Name and Address of Receiving Party

State of Incorporation

Motorola, Inc., 1303 East Algonquin Road Schaumburg, Illinois 60196	Delaware
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3. Nature of Conveyance: Assignment Execution Date: 6/07/01 AND 6/21/01

4. This document is being filed along with a new patent application:

Docket No.: CE08410R

Title: METHOD AND APPARATUS FOR ALLOCATING A
COMMUNICATION RESOURCE IN A BROADBAND
COMMUNICATION SYSTEM

09/886642

The execution date of the application is: 6/21/01

5. Please send correspondence to:

Motorola, Inc.
Intellectual Property Department
1303 E. Algonquin Road
Schaumburg, IL 60196

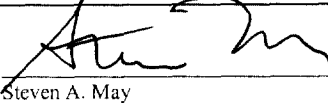
6. Total Number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41) \$ 40.00

8. Authorization to charge all recording fees to Deposit Account No.: 13-4772. A duplicate copy of this sheet is attached.

9. To the best of my knowledge and belief, the foregoing information is a true and correct original document.

DO NOT USE THIS SPACE

<p>SEND CORRESPONDENCE TO:</p> <p>Motorola, Inc. Intellectual Property Section Law Department 1303 E. Algonquin Road Schaumburg, IL 60196</p> <p>Total Number of pages comprising cover sheet and copy: 2 Total Number of pages comprising Assignment: 4 6 pgs Total</p>	<p>By: </p> <p>Steven A. May for Applicant(s) Reg. No.: 44,912 Telephone: (847) 576-3635 Fax No.: (847) 576-3750</p> <p>Date: 6/21/01</p>
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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **IVAN N. VUKOVIC, ARLINGTON HEIGHTS, IL; and, TYLER BROWN, MUNDELEIN, IL**, 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 **METHOD AND APPARATUS FOR ALLOCATING A COMMUNICATION RESOURCE IN A BROADBAND COMMUNICATION SYSTEM** (Docket No. **CE08410R**), 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.

Ivan N. Vukovic

DATE: 6/21/01

IVAN N. VUKOVIC

STATE OF ILLINOIS)

SS:

COUNTY OF COOK)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that IVAN N. VUKOVIC 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 21 day of JUNE, 2001.

My commission expires:



Karen Kass
Notary Public Signature

KAREN KASS
Printed Name of Notary Public

Tyler Brown

TYLER BROWN

DATE: 6/7/01

STATE OF ILLINOIS)

SS:

COUNTY OF COOK)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that TYLER BROWN 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 7 day of JUNE, 2001.

My commission expires:



Karen Kass
Notary Public Signature

KAREN KASS
Printed Name of Notary Public

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **IVAN N. VUKOVIC, ARLINGTON HEIGHTS, IL; and, TYLER BROWN, MUNDELEIN, IL**, 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 **METHOD AND APPARATUS FOR ALLOCATING A COMMUNICATION RESOURCE IN A BROADBAND COMMUNICATION SYSTEM** (Docket No. **CE08410R**), 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.

Ivan N. Vukovic

DATE: 6/21/01

IVAN N. VUKOVIC

STATE OF ILLINOIS)

SS:

COUNTY OF COOK)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that IVAN N. VUKOVIC 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 21 day of JUNE, 2001.

My commission expires:



Karen Kass
Notary Public Signature

KAREN KASS
Printed Name of Notary Public

Tyler Brown

DATE: 6/7/01

TYLER BROWN

STATE OF ILLINOIS)

SS:

COUNTY OF COOK)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that TYLER BROWN 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 7 day of JUNE, 2001.

My commission expires:



Karen Kass
Notary Public Signature

KAREN KASS
Printed Name of Notary Public