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FORM PTO-1594  
(Rev. 6-93)

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U.S. DEPARTMENT  
OF COMMERCE

Patent and  
Trademark Office

Atty Docket #:  
CS10224.

Re

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying part(ies):

Christopher Neil Kurby  
Gary Parker English

2. Name and address of receiving party(ies):

Name: Motorola, Inc.

Internal Address: Intellectual Property Dept.

Street Address: 1303 East Algonquin Road

City: Schaumburg State: IL ZIP: 60196

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution date of conveyance:

October 6 & 7, 1999

Additional name(s) & address(es) attached?

Yes

No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s): **09/414,279**

B. Patent No.(s):

Additional numbers attached?

Yes

No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Motorola, Inc.

Internal Address: Intellectual Property Section - Suite R3163

Street Address: P.O. Box 10219

City, State, Zip: Scottsdale, AZ 85271-0219

6. Total number of applications and patents involved:

7. Total fee (37 C.F.R. 3.41)..... \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 13-4771  
(Attach triplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

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

Timothy J. Lorenz

41,954

Name of Person Signing

Reg. No.

Signature

Date

2/17/00

Total number of pages including cover sheet, attachments, and document: 5

OMB No. 0651-0011 (exp. 4/94)

PATENT  
REEL: 010600 FRAME: 0484

**ASSIGNMENT AND AGREEMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, we, Christopher Neil Kurby of Elmhurst, IL; Joe Martin Smith of Scottsdale, AZ; and Gary Parker English of Chandler, AZ, 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 EFFICIENT SIGNAL AMPLIFICATION (Attorney Docket No. CS10224), described, illustrated, and claimed in an application for Letters Patent of the United States of America executed by us, 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 inventions 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 the 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 and Trademarks 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 behoof of Motorola, Inc., its successors, assigns, and legal representatives, to the full end of the term for which the Letters Patent may be granted, the same as they would have been held and enjoyed by us 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.

PATENT  
CS10224

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.

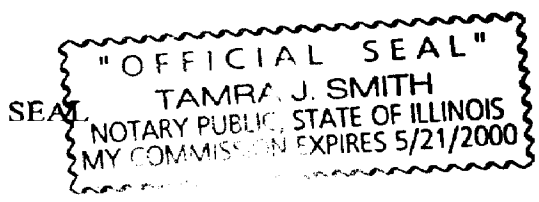
Christopher Neil Kurby  
Christopher Neil Kurby

STATE OF ILLINOIS )  
COUNTY OF LAKE )

I, TAMRA J. SMITH, a Notary Public in and for the County and State aforesaid, do hereby certify that Christopher Neil Kurby, whose name(s) are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 6<sup>th</sup> day of OCTOBER 1999.

Tamra J. Smith  
My commission expires on 5/21/2000



Address correspondence concerning this document to: Motorola, Inc., Intellectual Property Department - Suite R3163, P.O. Box 10219, Scottsdale, AZ 85271-0219.

PATENT  
CS10224

\_\_\_\_\_  
Joe Martin Smith

STATE OF ARIZONA )

COUNTY OF MARICOPA )

I, \_\_\_\_\_, a Notary Public in and for the County and State aforesaid, do hereby certify that Joe Martin Smith, whose name(s) are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
My commission expires on \_\_\_\_\_

SEAL

Address correspondence concerning this document to: Motorola, Inc., Intellectual Property Department - Suite R3163, P.O. Box 10219, Scottsdale, AZ 85271-0219.

PATENT  
CS10224

\_\_\_\_\_  
Gary Parker English

STATE OF ARIZONA )

COUNTY OF MARICOPA )

I, \_\_\_\_\_, a Notary Public in and for the County and State aforesaid, do hereby certify that Gary Parker English, whose name(s) are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
My commission expires on \_\_\_\_\_

SEAL

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## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, Christopher Neil Kurby of Elmhurst, IL; Joe Martin Smith of Scottsdale, AZ; and Gary Parker English of Chandler, AZ, 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 EFFICIENT SIGNAL AMPLIFICATION (Attorney Docket No. CS10224), described, illustrated, and claimed in an application for Letters Patent of the United States of America executed by us, 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 inventions 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 the 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 and Trademarks 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 behoof of Motorola, Inc., its successors, assigns, and legal representatives, to the full end of the term for which the Letters Patent may be granted, the same as they would have been held and enjoyed by us 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.

\_\_\_\_\_  
Christopher Neil Kurby

STATE OF ILLINOIS )

COUNTY OF )

I, \_\_\_\_\_, a Notary Public in and for the County and State aforesaid, do hereby certify that Christopher Neil Kurby, whose name(s) are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
My commission expires on \_\_\_\_\_

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Address correspondence concerning this document to: Motorola, Inc., Intellectual Property Department - Suite R3163, P.O. Box 10219, Scottsdale, AZ 85271-0219.

\_\_\_\_\_  
Joe Martin Smith

STATE OF ARIZONA )

COUNTY OF MARICOPA )

I, \_\_\_\_\_, a Notary Public in and for the County and State aforesaid, do hereby certify that Joe Martin Smith, whose name(s) are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
My commission expires on \_\_\_\_\_

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Address correspondence concerning this document to: Motorola, Inc., Intellectual Property Department - Suite R3163, P.O. Box 10219, Scottsdale, AZ 85271-0219.



Gary Parker English  
Gary Parker English

STATE OF ARIZONA )

COUNTY OF MARICOPA )

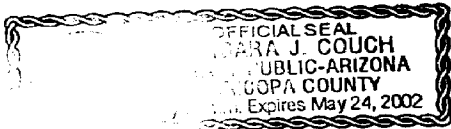
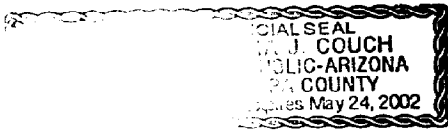
I, Barbara J. Couch, a Notary Public in and for the County and State aforesaid, do hereby certify that Gary Parker English, whose name(s) are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 7th day of October, 1999.

Barbara J. Couch

My commission expires on 5/24/02

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Address correspondence concerning this document to: Motorola, Inc., Intellectual Property Department - Suite R3163, P.O. Box 10219, Scottsdale, AZ 85271-0219.