

11-21-2005

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To the Director of the U.S. Patent and Trademark Office

Documents or the new address(es) below:

1. Name of conveying Party(ies)/Executive

JOHN GROSSPIETSCH  
ANTHONY R. SCHOOLER

Additional name(s) of conveying party(ies) attached?

Yes  No

103122708

2. Name and Address of receiving Party(ies):

Name: MOTOROLA, INC.  
Internal Address:  
Street Address: 1303 Algonquin Rd.  
City: Schaumburg  
State: Illinois  
Country: USA Zip: 60196

Additional name(s) and addresses attached?  Yes  No

113264 U.S. PTO  
11/27/2005



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3. Nature of Conveyance:

Execution Date(s): November 11, 2005

- Assignment  Change of Name  Executive Order 9424, Confirmatory License
- Security Agreement  Merger  Joint Research Agreement
- Government Interest Assignment  Other

4. Application or patent number(s).

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

BRINKS HOFER GILSON & LIONE  
P.O. BOX 10395  
CHICAGO, IL 60610  
(312) 321-4200  
(312) 321-4299 Fax

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- Authorized to be charged by credit card.
- Authorized to be charged to Deposit Account No. 23-1925.
- Enclosed
- None required (government interest not affecting title)

8. Payment Information:

- a.  Credit Card: Last 4 Numbers  
Expiration Date
- b.  Charge fee and/or any Deficiencies to Deposit  
Account Number: 23-1925  
Authorized User Name: Brinks Hofer Gilson & Lione

9. Signature:

Signature  
Anthony P. Curtis, Ph.D. Reg. No. 46,193  
Name of Person Signing

11/14/05  
Date  
Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, We, John Grosspietsch and Anthony R. Schooler 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 an improvement in **DIGITAL SATURATION HANDLING IN INTEGRAL NOISE SHAPING OF PULSE WIDTH MODULATION**, described, illustrated and claimed in an application for Letters Patent of the United States of America executed by me on the date indicated by my signature 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.

I 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 I 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.

I 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 the 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.

I 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.

I 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.

John Grosspietsch

DATE: 11/11/2005

STATE OF Illinois )  
COUNTY OF Cook )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that John Grosspietsch, 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 11<sup>th</sup> day of November, 2005.

My commission expires: 07-14-07

Maryann Casper  
Notary Public Signature

MARYANN CASPER  
Printed Name of Notary Public



I 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.

Anthony R Schooler

DATE: 11/11/2005

STATE OF Illinois )  
COUNTY OF Cook )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Anthony R. Schooler, 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 11<sup>th</sup> day of November, 2005.

My commission expires: 07-14-07

Maryann Casper  
Notary Public/Signature

MARYANN CASPER  
Printed Name of Notary Public

