

10-18-2001

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DOCKET NUMBER: CE08239R						
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.						
Name of conveying party(ies): Colin D. Frank.	Name and address of receiving party(ies) Name:Motorola, Inc. Internal Address: Corporate Offices Intellectual Property Dept 3rd floor					
Eugene Visotsky Prashant Choudhary						
Amitava Ghosh						
Additional name(s) of conveying party(ies) attached? Yes No						
3. Name of conveyance: X Assignment Merger	Street Address: 1303 E. Algonquin Rd					
Security Agreement Change of Name Other	City: <u>Schaumburg</u> State: <u>IL</u> Zip: <u>60196</u>					
Execution Date: Sept. 27 and Oct. 1, 2001	Additional name(s) & address(es) attached? Yes X No					
Application number(s) or patent number(s):						
If this document is being filed together with a new application, the	e execution date of the application is					
A. Patent Application No.(s)	B. Patent No.(s)					
09/933,365 filed on 08/20/01						
Additional numbers attached? Yes X No						
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:					
Name:	7. Total fee (37 CFR 3.41) \$					
Internal Address: Motorola, Inc.	Enclosed					
Intellectual Property Dept - 3rd floor	X Authorized to be charged to deposit account					
Street Address: 1303 E. Algonquin Rd.	8. Deposit account number: 13-4772					
City: Schaumburg						
State: IL Zip: 60196	(Attach duplicate 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.						
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Name of Person Signing Lalita P. Williams Reg#39, 427 Signature Signature Date						
Total number of pages including cover sheet, attachments, and documents:						

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

PATENT REEL: 012247 FRAME: 0481

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, COLIN D. FRANK, LOMBARD, IL; EUGENE VISOTSKY, SKOKIE, IL; PRASHANT CHOUDHARY, SCHAUMBURG, IL; and AMITAVA GHOSH, BUFFALO GROVE, 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 LINEAR MINIMUM MEAN SQUARE ERROR EQUALIZATION WITH INTERFERENCE CANCELLATION FOR MOBILE COMMUNICATION FORWARD LINKS UTILIZING ORTHOGONAL CODES COVERED BY LONG PSEUDORANDOM SPREADING CODES (Docket No. CE08239R filed on August 20, 2001, serial number 09/933,365), 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

CE08239R

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.

COLIN D FRANK

STATE OF ILLINOIS)
ss
COUNTY OF COOK)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Colin D. Frank 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 <u>Ol</u> day of <u>October</u>, 2001.

My commission expires: Oct. 11, 200 4

OFFICIAL SEAL
TANYA T SCHEUER

NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES: 10/11/04

Notary Public Signature

DATE: Oct 1, 2001

Printed Name of Notary Public

ENGENE MISOTSKY DATE: 09/27/01
EUGENE VISOTSKY
STATE OF ILLINOIS))ss
COUNTY OF COOK)
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Eugene Visotsky 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 27 day of,
2001.
My commission expires: October 11,2004 Janya Dekert Notary Public Signature
OFFICIAL SEAL TANYA T SCHEUER NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES: 10/11/04 PRASHANT CHOUDHARY Tanya T. Scheuer Printed Name of Notary Public DATE: Sept 27, 200
STATE OF ILLINOIS))ss COUNTY OF COOK)
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Prashant Choudhary 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 27 day of Septembe,
2001.
My commission expires: October 4, 2001 Tanya J. Sekerre, Notary Public Signature
OFFICIAL SEAL TANYA T SCHEUER NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES: 10/11/04 TANYA T. SCHOUEL Printed Name of Notary Public CE08239R

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PATENT REEL: 012247 FRAME: 0484

AMITAVA G	HOSH	2er2	DATE:	10/01/07
STATE OF	ILLINOIS))ss		
COUNTY OF	COOK)		
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Amitava Ghosh 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 OL day of October,				
2001.	,			
My commission	expires: Oct	H,2004		Janya J. Sekeces Notary Public Signature
OFFI(TANY) NOTARY PUE MY COMMIS	CIAL SEAL A T SCHEU BLIC, STATE OF IL SION EXPIRES: 10	L IER LINOIS /11/04		Tanya T. Scheuer Printed Name of Notary Public

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