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Form: PTC 1595	RA FIRM RURA DATA BURA HADI. SET
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DOCKET NUMBER: CR00300M 1019	26861
To the Honorable Commissioner of Patents and Trademarks: Ple	
1. Name of conveying party(ies): TIMOTHY A. THOMAS XIANGYANG ZHUANG FREDERICK W. VOOK Q 14 0	2. Name and address of receiving party(ies) Name: Motorola, Inc. Internal Address: Law Department
Additional name(s) of conveying party(ies) Additional name(s) of conveying party(ies) Yes x No attached?	Street Address: 1303 East Algonquin Road
X Assignment Merger	Street Address. 1303 East Algoridam Road
Security Agreement Change of Name	City: <u>Schaumburg</u> State: <u>IL</u> Zip: <u>60196</u>
Other	
Execution Date: 12/14/2001	Additional name(s) & address(es) attached? Yes X No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application A. Patent Application No.(s)	on, the execution date of the application is12/14/2001 . B. Patent No.(s)
Additional numbers attached	? Yes X No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: MOTOROLA, INC.	7. Total fee (37 CFR 3.41) \$40.00
Internal Address:	Enclosed
1303 E. Algonquin Road	X Authorized to be charged to deposit account
Street Address:	8. Deposit account number:13-4772
City: <u>Schaumburg</u> State: <u>IL</u> Zip: <u>60196</u>	(Attach duplicate copy of this page if paying by deposit account.)
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Mail documents to be recorded Commissioner of Patents & Tradema	arks, Box Assignments, Washington, D.C. 20231

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PATENT REEL: 012388 FRAME: 0316

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, TIMOTHY A. THOMAS, PALATINE, IL; XIANGYANG ZHUANG, HOFFMAN ESTATES, IL and FREDERICK W. VOOK, SCHAUMBURG, 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 SYSTEM FOR ADAPTIVE CHANNEL ESTIMATION TECHNIQUES (Docket No. CR00300M), 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.

PATENT REEL: 012388 FRAME: 0317

We cov	venant with	ı MOTOROLA	, INC., its succe	essors, assigns and l	egal representati	ves,
that the interes	st and prope	erty hereby con	veyed is free fro	om all <mark>prior as</mark> signm	ent, grant, mortg	gage,
license or othe	r encumbra	ance.				
rolly	a. Th	ma	— DATE:	12/14/01		
TIMOTHY Å.	THOMAS) •		,		
STATE OF)				
COUNTY OF CO	ООК)ss)				
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that XIANGY before me this	ANG ZHUs day in per their free a der my hand expires:	eson and acknown and voluntary act and notarial second and notaria	wledged that the ct and deed for the cal this // day	y and State aforesaided to the foregoing by signed, sealed and the uses and purpose of DEC Notary Public Signature Printed Name of Notary	d delivered the es therein set for , 200 ,	th.
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FREDERICK W. VOOK		<i>D</i> /(11)	Leave the second	
STATE OF IL)			
COUNTY OF COOK)			
that FREDERICK W. VOO before me this day in person	OK whose name is a control of and acknowledge divoluntary act and a control of the control of th	subscribed ted that they deed for the	V V	eared
My commission expires:		N	lotary Public Signature	
KAF NOTARY PUBL MY COMMISS	SIAL SEAL REN KASS IC, STATE OF ILLINOIS ION EXPIRES: 08/11/04	P	rinted Name of Notary Public	····

RECORDED: 12/14/2001