In place of Form PTO-1595

05-18-1998

1



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To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

#### 1. Name of conveying party(ies):

James N. Hardage, Jr.

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

Motorola, Inc. 3rd Floor 1303 East Algonquin Road Schaumburg, Illinois 61096

3. Nature of conveyance:

X Assignment

Execution Date: April 10, 1998

## 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 April 10, 1998

A. Patent Application No.(s)

B. Patent No.(s)

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

Anthony V. S. England, Esq. IBM Corporation Intellectual Property Law Internal Zip 4054 11400 Burnet Road Austin, TX 78758 (512) 838-6640

6.	Total numbe	r of applications	
	and patents	involved:	_

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

Authorized to be charged to IBM CORPORATION's deposit account

8. Deposit account number: 09-0447

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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.

Vicky Filipowsky	Juctury Fichigo welling	4/20/98
Name/Signature of Person Signing	(for FELSMAN, BRADLEY, GUNTER & DILLON, LLP)	Dáte

Total number of pages including cover sheet: 2

# PATENT REEL: 9165 FRAME: 0458

HQ9-97-018 SC90679A

## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, James N. Hardage, Jr., of Austin, Texas, 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 MULTI-STAGE PIPELINED DATA COALESCING FOR IMPROVED FREQUENCY OPERATION (Attorney Docket No. HQ9-97-018), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by me of even date herewith, together with my entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said 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 sald 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 said inventions and said 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 the priority of the filing date of said 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 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 said Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and I 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, I 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 said inventions in any and all countries and for vesting title thereto in MOTOROLA, INC., its successors, assigns and legal representatives or nominees.

HQ9-97-018 SC90679A

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.

James N. Hardage, Jr.

STATE OF TEXAS

COUNTY OF TRAVIS

I, <u>Manue</u> <u>k</u> <u>Warchan</u> a Notary Public in and for the County and State aforesaid, do hereby certify that James N. Hardage, Jr., whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and no	otarial seal this	day of
, 1998.	manay k 1	unchan
NOT JEAN TO BE	My commission expires on _	3-6-99
Colar Colar		

2

SEAL

IBM DOCKET NO. R09-97-018

## ASSIGNMENT

Whereas, I,

 Thomas A. Petersen
 of Travis

 County of Travis
 and State of Texas,

have invented certain improvements in

## MULTI-STAGED, PIPELINED DATA COALESCING FOR IMPROVED FREQUENCY OPERATION

and executed, respectively, a United States patent application therefor on <u>U17/98</u>, 1998.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corroration of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IEM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

signed at Austin 1.098 OR Thomas Α. Petersen

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