

07-07-2005

# 

RECOR IN THE WAY THE PART HE HAVE	
	3035472
To the Honorable Commissioner of Patents and Trademarks: Please rec	cord the attached original documents or copy thereof.
1. Name of conveying party(ies):	Name and address of receiving party(ies)
Limin Wang	Name: GENERAL INSTRUMENT CORPORATION
David Baylon Krit Panusopone	Internal Address:
Rajeev Gandhi	memai regress.
Yue Yu	
Ajay Luthra Additional name(s) of conveying party(ies) attached? Yes x No	
3. Name of conveyance:	Street Address:
X Assignment Merger	101 Tournament Drive
Security Agreement Change of Name	City: Horsham State: PA Zip: 19044
Other	
Execution Date: November 14, 15 and 16, 2002	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, the	e execution date of the application is
A. Patent Application No.(s) 10/902,330	B. Patent No.(s)
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: MOTOROLA, INC.	7. Total fee (37 CFR 3.41) \$40
Internal Address:	Enclosed
	X Authorized to be charged to deposit account
	Audionzed to be charged to deposit account
101 Tournament Drive	8. Deposit account number: <b>502117</b>
	Motorola, Inc.
City: Horsham	
State: PA Zip: 19044	(Attach duplicate copy of this page if paying by deposit account.)
DO NOT USE	THIS SPACE
<ol> <li>Statement and signature.</li> <li>To the best of my knowledge and belief, the foregoing information is true a copy of the original document.</li> </ol>	and correct and any attached copy is a true
Benjamin D. Driscoll	<i>Uni</i> June 22, 2005
Benjamin D. Driscoll  Name of Person Signing	Signature Date
Total number of pages including cover sheet, attachments, and do	

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

commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

07/06/2005 DBYRNE 00000029 502117

10902330

40.00 DA 01 FC:8021

**PATENT** 

**REEL: 016740 FRAME: 0026** 

#### ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements and a novel design for an

## Frequency Coefficient Scanning Paths for Digital Video Content Encoding

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address:

AND WHEREAS, , General Instrument Corporation with an office located at 101 Tournament Dr., Horsham, Pennsylvania (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEES, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or its designee, as ASSIGNEES or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEES thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto:

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale:

And I hereby authorize and request my attorney(s) of record in filing date of this application in the spaces that follow: Serial Number:	
Filing Date:	
This assignment executed on the dates indicated below.	
Limin Wang Name of first inventor	Execution date of U.S. Patent Application
	Execution date of 0.5. Fatent Application
13641 Shoal Summit Dr., San Diego, CA 92128 U.S.A.	
Residence of first inventor	11/14/02
Signature of first inventor	Date of this assignment
STATE OF	
COUNTY OF)	
On this day of, in the year of, before massignors, known to me (or proved to me on the basis of satisfactory evidence) to acknowledged execution of this instrument.	ne, the undersigned notary public, personally appeared the above-named be the person whose name is subscribed to the within instrument, and
Notary Public	

Assignment Page 2	Docket No. <u>80113-0316 (D2951)</u>
David M. Baylon Name of second inventor	Execution date of U.S. Patent Application
420 Landmark Court, San Marcos, CA 92069 U.S.A. Residence of second or sole inventor	
Residence of second or sole inventor	11/1-1-
Signature of second or sole inventor	Date of this assignment
STATE OF)	
COUNTY OF Ss.	
	stary public personally appeared the above-named
On this day of, in the year of, before me, the undersigned no assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose acknowledged execution of this instrument.	name is subscribed to the within instrument, and
Notary Public	
	Martina
Krit Panusopone Name of third inventor	Execution date of U.S. Patent Application
7528 Charmant Dr., #434, San Diego, CA 92122 U.S.A.	• •
Residence of third inventor	
Oct .	11/14/02
Signature of third inventor	Date of this assignment
STATE OF	
COUNTY OF	
On this day of, in the year of, before me, the undersigned no assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose acknowledged execution of this instrument.	tary public, personally appeared the above-named name is subscribed to the within instrument, and
Notary Public	
Rajeev Gandhi	11/14/67
Name of forth inventor	Execution date of U.S. Patent Application
11187 Camino Ruiz #74, San Diego, CA 92126 U.S.A.	
Residence of forth inventor	
Signature of forth inventor	Date of this assignment
STATE OF	
COUNTY OFSs.	
On this day of, in the year of, before me, the undersigned not assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose acknowledged execution of this instrument.	ary public, personally appeared the above-named name is subscribed to the within instrument, and

Notary Public

Assig	nmen
Page	

Docket No. 80113-0316 (D2951)

Yue Yu	11/14/07
Name of fifth inventor	Execution date of U.S. Patent Application
10845 Caminito Alvarez, San Diego, CA 92126 U.S.A. Residence of fifth inventor	
Residence of fifth inventor	
for m	Nov. 14, 2002
Signature of fifth inventor	Date of this assignment
STATE OF)	
COUNTY OF	
On this day of, in the year of, before me assignors, known to me (or proved to me on the basis of satisfactory evidence) to backnowledged execution of this instrument.	s, the undersigned notary public, personally appeared the above-named be the person whose name is subscribed to the within instrument, and
Notary Public	
A ion I rethmo	11/1/0/62
Ajay Luthra Name of sixth inventor	Execution date of U.S. Patent Application
13695 Winstanley Way, San Diego, CA 92130 U.S.A. Residence of sixth inventor	
A hithra	Nov 16 2002
Signature of sixth inventor	Nov 16, 202  Date of this assignment
STATE OF	
COUNTY OF	
On this day of, in the year of, before me assignors, known to me (or proved to me on the basis of satisfactory evidence) to b acknowledged execution of this instrument.	the undersigned notary public, personally appeared the above-named
assignors, known to me (or proved to me on the basis of satisfactory evidence) to b acknowledged execution of this instrument.	e the person whose name is subscribed to the within instrument, and
Notary Public	

#### ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements and a novel design for an

## Frequency Coefficient Scanning Paths for Digital Video Content Encoding

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address:

AND WHEREAS, , General Instrument Corporation with an office located at 101 Tournament Dr., Horsham, Pennsylvania (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEES, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or its designee, as ASSIGNEES or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEES thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale:

filing date of this application in the spaces that follow: Serial Number:  Filing Date:	• •
This assignment executed on the dates indicated below.	
Limin Wang	1114/02
Name of first inventor	Execution date of U.S. Patent Application
13641 Shoal Summit Dr., San Diego, CA 92128 U.S.A.	
Residence of first inventor	11/14/02
Signature of first inventor	Date of this assignment
STATE OF	
COUNTY OF	
On this day of, in the year of, before me, the assignors, known to me (or proved to me on the basis of satisfactory evidence) to be acknowledged execution of this instrument.	he undersigned notary public, personally appeared the above-named the person whose name is subscribed to the within instrument, and
Notary Public	

Assignment Page 2	Docket No. <u>80113-0316 (D2951)</u>
David M. Baylon Name of second inventor	Execution date of U.S. Patent Application
420 Landmark Court, San Marcos, CA 92069 U.S.A. Residence of second or sole inventor  Signature of second or sole inventor	Date of this assignment
STATE OF	ary public, personally appeared the above-named name is subscribed to the within instrument, and
Notary Public	
Krit Panusopone Name of third inventor	Execution date of U.S. Patent Application
7528 Charmant Dr., #434, San Diego, CA 92122 U.S.A.  Residence of third inventor  Signature of third inventor  STATE OF	1 1
On this day of, in the year of, before me, the undersigned note assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose nacknowledged execution of this instrument.	ary public, personally appeared the above-named arme is subscribed to the within instrument, and
Notary Public	
Rajeev Gandhi Name of forth inventor	Execution date of U.S. Patent Application
11187 Camino Ruiz #74, San Diego, CA 92126 U.S.A.  Residence of forth inventor  Signature of forth inventor	Date of this assignment
STATE OF	

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year of \_\_\_\_\_, before me, the undersigned notary public, personally appeared the above-named assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged execution of this instrument.

Notary Public

Assig	nment
Page	3

## Docket No. 80113-0316 (D2951)

Yue Yu	11/14/07
Name of fifth inventor	Execution date of U.S. Patent Application
10845 Caminito Alvarez, San Diego, CA 92126 U.S.A.	
10845 Caminito Alvarez, San Diego, CA 92126 U.S.A. Residence of fifth inventor	
10 m	Nov. 14, 2002
Signature of fifth inventor	Date of this assignment
STATE OF	
STATE OF	
On this day of, in the year of, before me, the undersigned no assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose acknowledged execution of this instrument.	tary public, personally appeared the above-named name is subscribed to the within instrument, and
Notary Public	
A joy I wthm	11/11/07
Ajay Luthra Name of sixth inventor	Execution date of U.S. Patent Application
13695 Winstanley Way San Diego CA 92130 U.S.A	• •
13695 Winstanley Way, San Diego, CA 92130 U.S.A. Residence of sixth inventor	
A. hitha	Nov16, 2002
Signature of sixth inventor	Nov 16, 202  Date of this assignment
CTATE OF	
STATE OF	
COUNTY OF	
On this day of, in the year of, before me, the undersigned not assignors, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose racknowledged execution of this instrument.	ary public, personally appeared the above-named name is subscribed to the within instrument, and
Notary Public	

**RECORDED: 06/29/2005**