7-13-61

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Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies): VIPUL A. DESAI, DAVID P. GURNEY, and BENSON CHAU

2. Name and Address of Receiving Party	State of Incorporation
Motorola, Inc., 1303 East Algonquin Road Schaumburg, Illinois 60196	Delaware

- 3. Nature of Conveyance: Assignment Execution Date: 7/13/01
- 4. This document is being filed along with a new patent application:

Docket No.: CR00200M

Title:

METHOD AND APPARATUS FOR VECTOR PROCESSING

The execution date of the application is: 7/13/01

5. Please send correspondence to:

Motorola, Inc.

Intellectual Property Department

1303 E. Algonquin Road Schaumburg, IL 60196

6. Total Number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41)

\$ 40.00

- 8. Authorization to charge all recording fees to Deposit Account No.: 13-4772. A duplicate copy of this sheet is attached.
- 9. To the best of my knowledge and belief, the foregoing information is a true and correct original document.

DO NOT USE THIS SPACE

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	SEND CORRESPONDENCE TO:	Ву:	192
l		1	Daniel W. Juffernbruch
١	Motorola, Inc.		for Applicant(s) Reg. No.: 33,122
l	Intellectual Property Section		Telephone: (847) 538-3129
	Law Department 1303 E. Algonquin Road		Fax No.: (847) 576-3750
	Schaumburg, IL 60196	Date:	7/13/01
	Total Number of pages comprising cover sheet and copy:		
	Total Number of pages comprising Assignment: pgs Total		

07/31/2001 RANNED1 00000113 134772 09905441 01 FC:581 40.00 CH

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, VIPUL A. DESAI, HOFFMAN ESTATES, IL; DAVID P. GURNEY, ALGONQUIN, IL; and BENSON CHAU, MT. PROSPECT, 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 APPARATUS FOR VECTOR PROCESSING (Docket No. CR00200M), 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 therefore 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.

We covenant with MOTOROLA, INC., its successors, assigns and legal representatives,
hat the interest and property hereby conveyed is free from all prior assignment, grant, mortgage,
icense or other encumbrance.
Vipus R. Lesa: DATE: 1/13/01 VIPUL A. DESAI
STATE OF ILLINOIS) ss:
COUNTY OF COOK)
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that VIPUL A. DESAI 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 \(\frac{3}{2} \) day of \(\frac{100}{2} \), 2001.
$Na_{\perp} > Na_{\perp}$
My commission expires: Notary Public Signature,
OFFICIAL SEAL Notary Public Signature, KAREN KASS KAREN KASS
NOTARY PUBLIC STATE OF ILLINOIS
MY COMMISSION EXPIRES:08/11/04
Source and an annual control of the
DATE: 7/301
DAVID P. GURNEY
STATE OF ILLINOIS) ss:
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that DAVID P. GURNEY 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 13 day of 2001.
1 alex
My commission expires: Notary Public Signature
OFFICIAL SEAL KAREN KASS
Printed Name of Notary Public
NOTARY SUBLIC STATE OF 11/04

Rengin	[haw		DATE:		7/13/01	
BENSON CHAU	U		21112.			
STATE OF ILLINOIS)	SS:				
COUNTY OF COOK)	55.				
that BENSON CHA this day in person a their free and volun	AU whose name in a cknowledged tary act and deed	s subscrib I that they I for the us	ed to the signed, sees and pu	forego ealed a irposes	state aforesaid, do here sing instrument, appear and delivered the instruction therein set forth.	red before me rument as
Given under my	hand and notari	al seal this	s 12day	of _	2)467	, 2001.
My commission expires	::				ar ans	
î h	OFFICIAL S KAREN K 101 ARY PUBLIC, STAT COMMISSION EXPR	ASS E OF ILLINOR RES:08/11/04			Public Signature ARED KASS I Name of Notary Public	

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, VIPUL A. DESAI, HOFFMAN ESTATES, IL; DAVID P. GURNEY, ALGONQUIN, IL; and BENSON CHAU, MT. PROSPECT, 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 APPARATUS FOR VECTOR PROCESSING (Docket No. CR00200M), 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 therefore 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.

We covenant with MOTOROLA, INC., its successors, assigns and legal representatives,
nat the interest and property hereby conveyed is free from all prior assignment, grant, mortgage
cense or other encumbrance.
<u>Virul A. Desai</u> DATE: 1/13/01
TATE OF ILLINOIS) ss:
COUNTY OF COOK)
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify nat VIPUL A. DESAI whose name is subscribed to the foregoing instrument, appeared before ne this day in person and acknowledged that they signed, sealed and delivered the instrument as neir free and voluntary act and deed for the uses and purposes therein set forth. Given under my hand and notarial seal this \(\frac{1}{2} \) day of \(\frac{1}{2} \)
DAVID P. GURNEY DATE: 7/13/01
TATE OF ILLINOIS)
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify nat DAVID P. GURNEY 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 13 day of 14 miles 14 miles 15 day of 16 miles 16 miles 16 miles 17 day 16 miles 17 day 17 day 18 miles 18 day 18 miles 18 day 18 miles 18 day 18 day 18 miles 18 day
Notary Public Signature Notary Public Signature NOTARY OBLIC STATE OF ILLINOIS

Penson Chau	(han		DATE: _	7/13/01	
STATE OF ILLINOIS)				
COUNTY OF COOK)	ss:			
hat BENSON CHA his day in person ar	U whose name ind acknowledged	s subscrib I that they	ed to the fo signed, sea	nd State aforesaid, do regoing instrument, ap led and delivered the poses therein set forth.	opeared before me instrument as
Given under my	hand and notaria	al seal this	$s \stackrel{\text{13}}{=} day of$	JULY	, 2001.
My commission expires	COMMISSION EXPIRA	ASS E OF ILLINOR RES:08/11/04	\overline{P}_1	otary Public Signature ALL KHS rinted Name of Notary Pub	, >

RECORDED: 07/13/2001