ENTS OF A SHAPE NOV 2 6 2000

12-05-2002



	۸г	NC.
M	А٢	RKS

À	Ġ.										8	4			'n								33	40	V		1		v	i.	L#	•	31	ħ	7	8	12		<i>j</i> . 4	1	
ľ	5	Tŀ	ΉE	- /	48	S	IS	٦ī	Αl	V	ī	C)	ΜI	ΜI	Ś	Š	TC	ì١	Œ	R	3	0	F	P	41	Έ	N	TS	5/	١Ň	D	T	F	X	Ďĺ	ΞN	ΛA	Rŀ	⟨১	

TO THE ASSISTANT COMMISS SIR: PLEASE RECORD THE AT	TACHED ORIGINAL DOCUMEN		REOF.							
7.	mber 27, 2002 26 - 0 2	4. 6. 8.	igned on September 30, 3	2002						
` ′	NVEYING PARTY(IES) ATTACH	EDV TIVES MINO								
2. PARTY(IES) (ASSIGNEE(S)) NAME: INTEL CORPORATION	RECEIVING INTEREST:									
ADDRESS: 2200 Mission Colleg	je Boulevard, Santa Clara, Califo	nia 95054								
	RESS(ES) ATTACHED? YES	⊠NO								
document)	ocument for recordation—multiple	·	gnment signed by differe	nt inventors is one						
	WHOLE ☐ PART INTEI ☐ FACSIMILE/PHOTOCOPY ☐ VERIFIED TRANSLATION		C. DATE: September 27 tember 30, 2002	, 2002 and						
EXECUTION DATE(S) ON THE ASSIGNMENT DIFFER SEE AT	SECURITY MERGER OTHER: EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) September 27, 2002 and September 30, 2002									
	S). OTHERS ON ADDITIONAL									
A. PAT, APP, NO.(S) M# series code/serial no	1" INVENTOR if not in item 1	B, PATENT NO(S	M#	1* INVENTOR if not in item 1						
A. PAT. APP. NO.(S) M# series code/serial no 10/259,843	if not in item 1	B. PATENT NO(S	1 /#	1* INVENTOR if not in item 1						
series code/serial no	if not in item 1 796 Whom Correspondence	6. NUMBER INV		######################################						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP	if not in item 1 796 Whom Correspondence	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F	OLVED: PATS <u>0</u> = TOTAL = EE ENCLOSED: (Code 5	if not in item 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group	if not in item 1 796 Whom Correspondence Id be Mailed:	6. NUMBER INV APPLNS <u>1</u> + I	OLVED: PATS <u>0</u> = TOTAL = EE ENCLOSED: (Code 5	if not in item 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP	if not in item 1 796 Whom Correspondence Id be Mailed:	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F	OLVED: PATS <u>0</u> = TOTAL = EE ENCLOSED: (Code 5	if not in item 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406	if not in item 1 796 Whom Correspondence Id be Mailed:	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY	OLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796	if not in item 1 796 Whom Correspondence Id be Mailed: e 2800 P14289	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N	DLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT IO 0 081674	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796 MATTER NO.	if not in item 1 796 Whom Correspondence Id be Mailed:	6. NUMBER INV APPLNS 1 + 1 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N dup. sheet not requin	OLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT 1 O 081674 d CLIENT NO.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796 MATTER NO. 9. To the best of my knowledge	if not in item 1 796 Whom Correspondence id be Mailed: e 2800 P14289 CLIENT REF.	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N dup. sheet not requintion is true and correct	DLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT IOO 081674 d CLIENT NO. ect and any attached copy	If not in item 1 1 SET CHARGE NUMBER: 16-1805 0249796 MATTER NO. v is a true copy of						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796 MATTER NO. 9. To the best of my knowledge	if not in item 1 796 Whom Correspondence id be Mailed: e 2800 P14289 CLIENT REF.	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N dup. sheet not requintion is true and correction is true and correction.	DLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT IO 0 81674 d CLIENT NO. ect and any attached copy f pages including this iments and document	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796 MATTER NO. 9. To the best of my knowledge the original document.	If not in item 1 796 Whom Correspondence Id be Mailed: e 2800 P14289 CLIENT REF. e and belief, the foregoing information	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N dup. sheet not requintion is true and correct	DLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT IO 0 81674 d CLIENT NO. ect and any attached copy f pages including this iments and document	If not in item 1 1 SET CHARGE NUMBER: 16-1805 0249796 MATTER NO. v is a true copy of						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796 MATTER NO. 9. To the best of my knowledge the original document.	If not in item 1 796 Whom Correspondence Id be Mailed: e 2800 P14289 CLIENT REF. e and belief, the foregoing information	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N dup. sheet not requintion is true and correction is true and correction.	DLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT IO 0 81674 d CLIENT NO. ect and any attached copy f pages including this iments and document	If not in item 1 1 SET CHARGE NUMBER: 16-1805 0249796 MATTER NO. v is a true copy of						
5. Name & Address of Party to Concerning Document Should Pillsbury Winthrop LLP Intellectual Property Group 725 South Figueroa Street, Suite Los Angeles, CA 90017-5406 5.5ATTY DKT: P 0249796 MATTER NO. 9. To the best of my knowledge the original document.	If not in item 1 796 Whom Correspondence Id be Mailed: e 2800 P14289 CLIENT REF. e and belief, the foregoing information	6. NUMBER INV APPLNS 1 + I 7. AMOUNT OF F ABOVE TOTAL 8. IF ABOVE FEE INSUFFICIENCY UNDER ORDER N dup. sheet not requin tion is true and corre 10. Total number of cover sheet, attack (do not file dup. Co	DLVED: PATS 0 = TOTAL = EE ENCLOSED: (Code 5 x \$40 = \$40 S MISSING OR INADEQUATO DEPOSIT ACCOUNT IO 0 81674 d CLIENT NO. ect and any attached copy f pages including this iments and document	If not in item 1 1 SET CHARGE NUMBER: 16-1805 0249796 MATTER NO. v is a true copy of						

FILE WITH PTO RETURN RECEIPT (PAT-103A)

2/04/2002 DBYRNE

00000151 10259843

01 FC:8021

40.00 DP/

PATENT PAT-114X 10/01

REEL: 013539 FRAME: 0044

Attorney's Docket

ASSIGNMENT

No.: PW81674/249796 (For Execution P	· · · · · · · · · · · · · · · · · · ·
	lc consideration, the receipt of which is hereby
acknowledged, Yun WANG and Orna ETZI	
herehy sells, assigns, and transters to <u>Inte</u>	
a corporation of California	, having a principal place of business at
2200 Mission College Boulevard, Santa Cla	ra. CA 95054 ,
("Assignee"). and its successors, assigns, and legal repre the United States and all foreign countries, disclosed in the application for the United S undersigned prior hereto or concurrently he entified:	esentatives, the entire right, title, and interest for in and to any and all improvements that are tates patent that has been executed by the rewith on the dates indicated below and is
Optimized Translation of Scalar Type SIMD Inetr	

Optimized Translation of Scalar Type SIMD Instructions into Non-Scalar SIMD Instructions and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation in part applications, substitute applications, renewal applications, reissue applications, reaxaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

-1-

Each Inventor: Please		Each I
09/27, 20 0) Date	Name: Yun WANG	you si accom
, 20	Name: Orna ETZION	ATTO
, 20	Namo:	09
Date 20	Name:	
, 20	Name:	<u> </u>
, 20 Date	Name:	
		D

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:
09/27 . 2007 Date
, 20
, 20
, 20
, 20
, 20 Date

State of:	}	
	}	33.
County of:	}	

Assignment Document Return Address: PILLSBURY WINTHROP LLP 725 South Figueroa Street Los Angeles, California 90017-5443 213.488.7100

P. 003/004

Attorney's Docket

ASSIGNMENT

No.: PW81674/249796 (For Execution Prior T	o Filing Patent Application)
In consideration of good and valuable cor	nsideration, the receipt of which is hereby
acknowledged, Yun WANG and Oma ETZION	
hereby sells, assigns, and transfers to Intel Corp	poration
a corporation of <u>California</u>	, having a principal place of business at
2200 Mission College Boulevard, Santa Clara, C	A 95054
("Assignee"), and its successors, assigns, and legal represent the United States and all foreign countries, in and disclosed in the application for the United States undereigned prior heroto or concurrently herowith entitled:	d to any and all improvements that are patent that has been executed by the

Optimized Translation of Scalar Type SIMD Instructions into Non-Scalar SIMD Instructions and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation in part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undereigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives, and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each inventor	: Please S	iign <u>and Date</u> Below:
Dale	, 20	Name: Yun WANG
30 / Sept.	, 20 0 2	Name: Qrna ETZION
Date	, 20	Namo:
Date	, 20	Name:
Date	, 20	Name:
Dale	, 20	Name:

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:	
30/Sept . 20 02	
, 20	
, 20	
, 20	
, 20	
, 20	

State of:	}
) SS.
County of:	 }

RECORDED: 11/26/2002

Assignment Document Return Address: PILLSBURY WINTHROP LLP 725 South Figueroa Street Los Angeles, California 90017-5443 213.488.7100