FORM PTO-1619A

expires 06/39/99 omb 0651-0027 06-20-2003



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U.S. Department of Commerce Patent and Trademark Office

PATENT

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RECORDATION FORM COVER SHEET PATENTS ONLY

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New Resubmission (Non-Recordation) License Change of Name Correction of PTO Error Real # Frame # License Change of Name Correction of PTO Error Real # Frame # License Change of Name Correction of PTO Error Real # Frame # License Change of Name Correction of PTO Error Real # Frame # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Real # License Change of Name Correction of PTO Error Results at additional name of Conveying parties attached Execution Date Month Day Year Month Day Year Month Day Year Mark if additional name of conveying parties attached If document to be recorded is an assignment and the dominicide in the United States, an appointment of a domestic representative is attached (Designation must be a separate document from Assignment) California Political Parties Pol			nts and Tradmarks: Pl	ease record the attached or	iginal document(s) or copy(ies).
Resubmission (Non-Recordation) Correction of PTO Error Reel #		/pe 6-12-0	3		
Correction of PTO Error Correction of PTO Error Reel #	L	ion (Non-Recordatio	n)	Assignment	
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Reel # Frame # Department File Secret File Conveying Party (ies) Mark if additional name of conveying parties attached Month Day Year Party 1 Joshua Porten	<u> </u>	Document		<i>U.S. Govern</i> (For Use ONLY by U.S.	nment Government Agencies)
Party 1 Joshua Porten 5 - 29 - 03 Party 2 Won Kim 4/27/2003 Party 3 Scott D. Johnson 4/28/2003 Party 4 John R. Nickolls 4/2-72-03 Party 5 Party 6 Mark if additional name of conveying parties attached is an assignment and the receiving party is not domicided in the United States, an appointment of a domestic receiving party is not domicided in the United States, an appointment of a domestic representative is attached (Designation must be a separate document from Assignment) Domestic Representative Name and Address Enter for the first Receiving Party Only Name Timothy W. Markison Address (line 1) P.O. Box 160727 Address (line 2) Austin IX 78716-0727 Address (line 3) FOR OFFICE USE ONLY		Frame	#		
Party 2 Won Kim Party 3 Scott D. Johnson Party 4 John R. Nickolls Party 5 Party 6 Receiving Party Mark if additional name of conveying parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of adomestic representative is attached. (Designation must be a separate document from Assignment) Domestic Representative Name and Address Address (line 1) P.O. Box 160727 Address (line 2) Austin IX 78716-0727 Address (line 3) Address (line 4) FOR OFFICE USE ONLY	Conveying Pa	arty(ies) M	ark if additional name of	conveying parties attached	
Party 3 Scott D. Johnson Party 4 John R. Nickolls Party 5 Party 6 Mark if additional name of conveying parties attached Receiving Party Mark if additional name of conveying parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment) Domestic Representative Name and Address City State/Country Zip Code Separate document from Assignment) Name Timothy W. Markison Address (line 1) P.O. Box 160727 Address (line 2) Austin IX 78716-0727 Address (line 3) Aptifices (line 4) FOR OFFICE USE ONLY	Party 1	Joshua	Porten		5-29-03
Party 4	Party 2	Won	Kim		4/27/2003
Party 5 Party 6 Receiving Party Mark if additional name of conveying parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment) Domestic Representative Name and Address Address (line 1) P.O. Box 160727 Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY	Party 3	Scott D	lohnson		4/28/2003
Party 5 Party 6 Receiving Party Mark if additional name of conveying parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment) Domestic Representative Name and Address Address (line 1) P.O. Box 160727 Address (line 2) Austin FOR OFFICE USE ONLY Mark if additional name of conveying parties attached is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment) Pomestic Representative Name and Address Enter for the first Receiving Party Only Address (line 1) P.O. Box 160727 Address (line 3) Address (line 4) FOR OFFICE USE ONLY	Party 4	John R. Nickolls 4-26-03			4-26-03
Receiving Party	Party 5				
Name (line 1) Broadcom Corporation If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment) Domestic Representative Name and Address Enter for the first Receiving Party Only Name Timothy W. Markison Address (line 1) P.O. Box 160727 Address (line 2) Austin TX 78716-0727 Address (line 4) FOR OFFICE USE ONLY	Party 6				
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Name (line 2) Address Ic215 Alton Parkway Address Irvine California City State/Country City State/Country Timothy W. Markison Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY receiving party is not domicide in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment) Pomestic Representative Name and Address Enter for the first Receiving Party Only Address (line 1) P.O. Box 160727 Address (line 2) Address (line 3) FOR OFFICE USE ONLY					If document to be recorded
Address Irvine California 92618-7013 (Designation must be a separate document from Assignment) Domestic Representative Name and Address Enter for the first Receiving Party Only Name Timothy W. Markison Address (line 1) P.O. Box 160727 Address (line 2) Austin I'X 78716-0727 Address (line 3) FOR OFFICE USE ONLY	<u>L</u>	adeom Corporation			receiving party is not domiciled in the United
Address Irvinc California 92618-7013 (Designation must be a separate document from Assignment) City State/Country Zip Code Assignment) Domestic Representative Name and Address Enter for the first Receiving Party Only Name Timothy W. Markison Address (line 1) P.O. Box 160727 Address (line 2) Austin TX 78716-0727 Address (line 3) FOR OFFICE USE ONLY	Address 162	215 Alton Parkway			of a domestic
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Address (line 2) Austin IX 78716-0727 Address (line 3) FOR OFFICE USE ONLY	Name	Timothy W. Mark	ison		
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Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, DC 20231

REEL: 014182 FRAME: 0768

FORM Prexpires 06/39/ omb 0651-002		Page 2		U.S. Department of Commo Patent and Trademark (
Correspon	dent Name and Addr	ess Area Code and	Telephone Number	(512) 342-0612	
Name (line 1)	Timothy W. Markison				
Name (line 2)				M	
Address	P.O. Box 160727				
Address	Austin	TX	78716-0727		
	City	State/Country	Zip Code		
	Enter the total number of including any attachment		conveyance document	t # 5	
Applicatio	n Number(s) or Pater	nt Number(s)	Mark if additional number	ers attached	
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		Authorization	to charge additional fe	ees: Yes No	
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Signature

Name of Person Signing

PATENT REEL: 014182 FRAME: 0769

Date

ASSIGNMENT

WHEREAS, the undersigned inventors, hereinafter called the "Assignors", have invented a new and useful invention entitled:

GALOIS FIELD ARITHMETIC UNIT FOR USE WITHIN A PROCESSOR

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, Broadcom Corporation , a USA company having a principal office and place of business at, 16215 Alton Parkway Irvine California 92618-7013 hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER. be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application. in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated: that they will promptly execute and deliver to the Assignee any and all additional

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

Mashy out.	5,29,03		
Yoshua Porten	date	Won Kim	date
Scott D. Johnson	date	John R. Nickolls	date
	date		date

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

		Mon K=	4/27/2002
Joshua Porten	date	Won Kim	date
Scott D. Johnson	date	John R. Nickolls	date
	date		date

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Joshua Porten	date	Won Kim	date
allope	4/28/03		
Scott D. Johnson	date	John R. Nickolls	date
	date		date

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IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

RECORDED: 06/12/2003

date	Won Kim	date
	Cillian .	4126/20
date	John R. Nickolls	date
		date
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