REEL: 012139 FRAME: 0114

Box Assignment Commissioner of Patents and Trademarks Washington, D.C. 20231

09-11-2001



Post Office Box 7068 Pasadena, CA 91109-7068

Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

Arya R. Behzad Klais Bull Ramon A. Gone Ramon A. Gone Tom W. Kwan Oscar E. Agazzi John L. Creigh Mehdi Hatanian David E. Kruse Arthur Abonous Henry Samueli Additional aame(s) of conveying party(ies) attached NO 3. Name of conveyance: Assignment Security Agreement Change of Name Change of Name Change of Name Change of Name Receution Date: March 12, 2001; March 13, 2001; May 21, 2001; March 22, 2001; March 28, 2001; May 21, 2001; March 22, 2001; March 28, 2001; May 21, 2001; March 22, 2001; March 28, 2001; May 21, 2001; March 22, 2001; March 28, 2001; respectively 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 Six. A. Patent Application No.(s) 09/12/42/2013/1994 10/2001 199706 PC Description Additional numbers attached? NO B. Patent No.(s) B. Patent No.(s) 6. Total number of applications and patents involved		2 N
Street Address: Chi-Hung Lin Tom W. Kward John L. Creigh Mehdi Haramian David E. Kruse Arthur Ahnous Henry Samuel Additional name(s) of conveying party(ies) attached: *NO 3. Name of conveyance: Security Agreement	1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Chi-Hung Lin Tom W. Kwan Oscar E. Agazzi John L. Creigh Mehdi Hatamian David E. Kruse Arthur Abnous Additional name(s) of conveying party(ies) attached: NO	Arya R. Behzad Klaas Bult	<u>-</u>
Tom W. Kwan Oscar R. Agazzi John L. Creigh Mehdi Hatminn David F. Kruse Arthur Ahmou Additional name(s) of conveying party(ies) attached: NO 3. Name of conveyance: M. Assignment Security Agreement Change of Name Other: Execution Date: March 12, 2001; March 18, 2001; May 21, 2001; March 12, 2001; March 18, 2001; May 21, 2001; March 22, 2001; March 18, 2001; May 21, 2001; March 22, 2001; March 18, 2001; May 21, 2001; March 16, 2001; March 18, 2001; May 21, 2001; March 16, 2001; March 28, 2001; respectively 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: A. Patent Application No.(s) 09/712 422 PCTUS00/31394 10/2001 Bittle: 0000327 09712422 FCTUS00/31394 10/2001 Bittle: 0000327 09712422 FCTS81 S. Please return the recorded document and address all correspondence to: CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: Richard J. Paciulan 10. □ Explanatory letter is enclosed. 9. Statement and signature. To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and behef, the foregoing information is true and correspondence to: To the best of my knowledge and	Ramon A. Gomez	Street Address:
John L. Creigh Mehdi Hatamian David E. Kruse Arthur Abnous Henry Samuel Additional name(s) of conveying party(ies) attached: NO 3. Name of conveyance: Security Agreement	Tom W. Kwan	16215 Alton Parkway Drive Irvine, California 92618-7013
David E. Kruse Arthur Abnous Henry Samueli Additional name(s) of conveying party(ies) attached: NO 3. Name of conveyance: Assignment	John L. Creigh	2010 / 000
Henry Samueli Additional name(s) of conveying party(ies) attached: NO 3. Name of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: March 15, 2001; March 18, 2001; March 19, 2001; March 22, 2001; March 18, 2001; March 20, 2001; March 16, 2001; March 18, 2001; March 20, 2001; March 16, 2001; March 28, 2001; Fight and the security of patent number(s) If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 09/712.422 PCT/0500/31394 10/2001 DBTDE 00000327 09712422 PCT/0500/31394 10/2001 DBTDE 00000327 09712422 PCT/0500/31394 5. Please return the recorded document and address all correspondence to: CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasanca, CA 91109-7068 Attention: Richard J. Paciulan 10. Explanatory letter is enclosed. 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 trace of the second of the applications and patents involved	David E. Kruse	
3. Name of conveyance: Assignment Merger Security Agreement Change of Name Other: Security Agreement Change of Name Additional name(s) & address(es) attached? NO B. Patent No.(s) B. Patent No.(s) Op/712,422 PCT/US00/31394 Op		
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Security Agreement □ Change of Name Other: Execution Date: March 15, 2001; March 27, 2001; March 19, 2001; March 22, 2001; March 18, 2001; May 21, 2001; March 16, 2001; March 28, 2001; March 20, 2001; March 16, 2001; March 28, 2001; respectively 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: A. Patent Application No.(s) 09/712,422 PCT/US00/31394 10/2001 DBTINE 0000327 09712422 PCT/US00/31394 10/2001 DBTINE 0000327 09712422 CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: Richard J. Paciulan 10. □ Explanatory letter is enclosed. 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correspondence to original document. Date: September 4, 2001 IMPEREN CENTIFY THAT THIS CORRESPONDENCE IS BRING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AM ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER TOR PATENT, WASHINGTON, D. 2/2023 ON B. Patent No.(s) B. Patent No.(s) 6. Total number of applications and patents involved 7. Notal fee enclosed (37 CFR 3.41): \$80.00 8. Notal number of applications and patents involved 8. Notal fee enclosed (37 CFR 3.41): \$80.00 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correspondence to the property of the page	•	The state of the s
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10/2001 DBYRNE 00000327 09712422 PCT/US00/31394 10/2001 DBYRNE 00000327 09712422 PCT/US00/31394 5. Please return the recorded document and address all correspondence to: CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: Richard J. Paciulan 10. Explanatory letter is enclosed. 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correctand are attached copy is a trace copy of original document. Date: September 4, 2001 IHEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENT WASHINGTON, D. C. 20231.0N Total number of applications and patents involved 5. **NO** Total number of applications and patents involved	If this document is being filed together with a new app	plication, the execution date of the application
10/2001 DETRIE 00000327 09712422 FC1561	A Parent Application No.(s)	B. Patent No.(s)
5. Please return the recorded document and address all correspondence to: CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: Richard J. Paciulan 10. Explanatory letter is enclosed. 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 and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true and correct and any attached copy is a true. Date: September 4, 2001 I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENT. WASHINGTON, D.C. 20231 ON To any any any any any and any attached copy is a true. To any	09/712.422	
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P.O. Box 7006 Pasadena, CA 91109-7068 Attention: Richard J. Paciulan 10. Explanatory letter is enclosed. 8. Any deficiency or overpayment of fees should be marged credited to Deposit Account No. 03-1728, exception ayment in the fees required under 37 CFR § 1.18. Please show our document with any credit or charge to our Deposit Account. 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and are attached copy is a transcription original document. Date: September 4, 2001 I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENT, WASHINGTON, D.C., 20231 ON To Shumber of pages including cover sheet, attachments, and document:	5. Please return the recorded document and address all correspondence to:	6. Total number of applications and patents involved
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DATE SIGNATURE DATENT	PATENT. WASHINGTON, DECEDED	## # 1
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ASSIGNMENT

WHEREAS, WE, ARYA R. BEHZAD, KLAAS BULT, RAMON A. GOMEZ, CHI-HUNG LIN, TOM W. KWAN, OSCAR E. AGAZZI, JOHN L. CREIGH, MEHDI HATAMIAN, DAVID E. KRUSE, ARTHUR ABNOUS, AND HENRY SAMUELI, residing at Danville, California; LK Boschen Duin, The Netherlands; Fountain Valley, California; Mission Viejo, California; Irvine, California; Rancho Santa Margarita, California; Mission Viejo, California; 3981 AJ Bunnik, The Netherlands; Irvine, California; and San Juan Capistrano, California, respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled GIGABIT ETHERNET TRANSCEIVER WITH ANALOG FRONT END, filed November 13, 2000, Application No. 09/712,422 and International PCT Application No. US00/31394 filed on November 13, 2000.

AND WHEREAS BROADCOM CORPORATION, a California corporation, having a place of business at 16215 Alton Parkway Drive, Irvine, California 92618-7013 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said improvements, and said application and all divisions and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and we hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand th	is <u>15</u>	_day of March	, 20 <u>0/</u> .
		1-R	
Ary	R. Be	ehzad	

IN TESTIMONY WHEREOF, I hereunto set my hand th	is	_ day of	, 20
Kla	as Bul	t	

IN TESTIMONY WHEREOF, I hereunto set my hand th	nis	day of	, 20
Ran	mon A.	Gomez	

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$\overline{ ext{Ch}}$	i-Hung	Lin	

IN TESTIMONY WHEREOF, I hereunto set my hand the	nis	day of	, 20
To	om W. F	⟨wan	

IN TESTIMONY WHEREOF, I hereunto set my hand	this	day of	, 20
·	scar E	. Agazzi	
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IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	_, 20
Arya R. l	Behzad	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of3 27	, 20 <u>0</u> .
Klaas Bi		, . , , , , , , , , , , , , , , , , , ,
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IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	_, 20
Ramon F	A. Gomez	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	_, 20
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Chi-Hun	g Lin	

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IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	,
Tom W.	Kwan	

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Oscar F	E. Agazzi	

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Arya R	. Behzad	

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Klaas I	Bult	

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Chi-Hu	ing Lin	

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Tom W	J. Kwan	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	_, 20
Oscar	E. Agazzi	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	, 20
Arya R.	Behzad	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	, 20
Klaas B	ult	

IN TESTIMONY WHEREOF, I hereunto set my hand this _	day of	, 20
Ramon	A. Gomez	

IN TESTIMONY WHEREOF, I hereunto set my hand this 2	2 day of March	, 20 <u>01</u>
Chi-Hur	ng Ljn	

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Tom W	. Kwan	

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Oscar :	E. Agazzi	

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A . D . D	
Arya R. Be	hzad

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Klaas Bult	

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Ramon A. G	omez

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Chi-Hung Li	in

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IN TESTIMONY WHEREOF, I hereunto set my hand this _	day of,	20
		
Arya R.	Behzad	

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Klaas B	ult	····

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Ramon	A. Gomez	

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Chi-Hu:	ng Lin	

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Tom W	', Kwan	

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0scar	E. Agazzi	

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IN TESTIMONY WHEREOF, I hereunto set my hand this 22 day of March	, 20 <u> </u>
John Mileigh	
John L. Creigh	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	, 20
Mehdi Hatamian	-1

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	, 20
David E. Kruse	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	, 20
Arthur Abnous	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	_, 20
Henry Samueli	

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IN TESTIMONY WHEREOF, I hereunto set my hand this day of, 20	
	_
John L. Creigh	

IN TESTIMONY WHEREOF, I hereunto set my hand this $\frac{\cancel{29}}{\cancel{40905}}$ day of $\frac{\cancel{40905}}{\cancel{40905}}$, 20	01
Ale Hatening	>
Mehdi Ha <u>tamian</u>	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of, 20	 ·
David E. Kruse	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of, 20	·
Arthur Abnous	· · · ·

IN TESTIMONY WHEREOF, I hereunto set my hand this day of, 20)
Henry Samueli	

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John L. Creigl	h

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Mehdi Hatami	an

IN TESTIMONY WHEREOF, I hereunto set my hand this $20^{\frac{1}{12}}$ da	y of <u>March</u> , 20 <u>01</u> .
	I & Kune
David E. Kruse	е

IN TESTIMONY WHEREOF, I hereunto set my hand this da	y of, 20
Arthur Abnous	3

IN TESTIMONY WHEREOF, I hereunto set my hand this da	y of, 20
Henry Samuel	i

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IN TESTIMONY WHEREOF, I hereunto set my hand this day of	20
John L. Creigh	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	20
Mehdi Hatamian	

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	, 20
David E. Kruse	

IN TESTIMONY WHEREOF, I hereunto set my hand this 16th day of March Arthur Abnous	, 20_0(.

IN TESTIMONY WHEREOF, I hereunto set my hand this day of	, 20
Henry Samueli	

PBH/cks CKS PAS334356.1-*-3/14/01 2:47 PM

RECORDED: 09/07/2001

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of	20
John L. Ci	reigh	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of,	20
Mehdi Ha	tamian	

IN TESTIMONY WHEREOF, I hereunto set my hand this	day of,	20
David E. F	∠ ruse	

IN TESTIMONY WHEREOF, I hereunto set my hand this	_ day of,	20
Arthur Ab	nous	

IN TESTIMONY WHEREOF, I hereunto set my hand this 28	2 Some	20 <u>0l</u> .

PATENT REEL: 012139 FRAME: 0126