# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

NATURE OF CONVEYANCE: **ASSIGNMENT** 

#### **CONVEYING PARTY DATA**

Name	Execution Date
Telcordia Licensing Company LLC	01/28/2010

## **RECEIVING PARTY DATA**

Name:	TTI Inventions A LLC
Street Address:	2711 Centerville Road
Internal Address:	Suite 400
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19808

## PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6115154

### **CORRESPONDENCE DATA**

Fax Number: (608) 258-4258

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 608-257-5035

MadisonIPDocketing@foley.com, dlawson@foley.com Email:

Correspondent Name: Paul S. Hunter

Address Line 1: Verex Plaza 150 East Gilman Street

Address Line 2: Foley & Lardner LLP

Address Line 4: Madison, WISCONSIN 53703-1481

ATTORNEY DOCKET NUMBER:	088245-7531
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NAME OF SUBMITTER: Paul S. Hunter

Total Attachments: 12

source=Telcordia Networking - Telcordia Licensing Assgt to TTI Inventions A LLC#page1.tif source=Telcordia Networking - Telcordia Licensing Assgt to TTI Inventions A LLC#page2.tif **PATENT** 

REEL: 025353 FRAME: 0335

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PATENT REEL: 025353 FRAME: 0336

#### ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Telcordia Licensing Company LLC, a Delaware limited liability company, having offices at One Telcordia Drive, Piscataway, NJ 08854 ("Assignor"), does hereby sell, assign, transfer, and convey unto TTI Inventions A LLC, a Delaware limited liability company, having an address at 2711 Centerville Road, Suite 400, Wilmington, DE 19808 ("Assignee"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "Patent Rights"):

- (a) the provisional patent applications, patent applications and patents listed in the table below (the "Patents");
- (b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;
- (c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);
- (d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;
- (e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents below and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;
- (f) inventions, invention disclosures, and discoveries described in any of the Patents to the extent that any such inventions, invention disclosures, and discoveries (i) are included in any claim in the Patents, (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceedings brought on any of the Patents, or (iii) could have been included as a claim in any of the Patent;
- (g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;
- (h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for
  - (i) damages,
  - (ii) injunctive relief, and
  - (iii) any other remedies of any kind

for past, current, and future infringement; and

Pane 1

(i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h).

Patent or application no.	Country	Filing Date	Title of Patent and Inventors
			Electronically tunable
			polarization-independent
			liquid crystal optical filter
5,068,749		11/26/1991	inquie crystai opticai rinter
(07/577,220)	US	(8/31/1990)	Patel, Jayantilal S.
(07)577,2207		10/31/1990)	Fatci, Javantilai S.
THE RESIDENCE OF THE PROPERTY			Tunable liquid crystal etalon
E 150 026		0/00/1000	filter
5,150,236 (07/598,476)	US	9/22/1992	D. 11
(07/396,476)	<u> </u>	(10/16/1990)	Patel, Jayantilal S.
O Y Y A A A A A A A A A A A A A A A A A			Liquid-crystal modulator array
E 120 P24	-	7/21/1002	Track Track and the state
5,132,824	***	7/21/1992	Patel, Jayantilal S.; Weiner,
(07/651,028)	US	(2/5/1991)	Andrew M.
			Dual-polarization liquid-
			crystal etalon filter
5,111,321		<u>5/5/1992</u>	
(07/677,769)	US	(3/29/1991)	Patel, Jayantilal S.
	Water Franchis		Dual-hubbed arrangement to
		11.11.11.11.11.11.11.11.11.11.11.11.11.	provide a protected ring
			interconnection
5,218,604		6/8/1993	
(07/577,273)	<u>US</u>	(8/31/1990)	Sosnosky, Joseph
			DUAL-HUBBED
			ARRANGEMENT TO
			PROVIDE A PROTECTED
			RING INTERCONNECTION
CA2090429		7/6/1999	
(CA2090429)	CA	(5/7/1991)	SOSNOSKY JOSEPH
			A DUAL-HUBBED
			ARRANGEMENT TO
			PROVIDE A PROTECTED
			RING INTERCONNECTION
FR0545936		9/8/1999	233.13 21.123.133.11120.133.1
(FR91911538.6)	FR	(5/7/1991)	SOSNOSKY JOSEPH
			A DUAL-HUBBED
			ARRANGEMENT TO
			PROVIDE A PROTECTED
			RING INTERCONNECTION
GB0545936		9/8/1999	
(GB91911538.6)	GB	(5/7/1991)	SOSNOSKY JOSEPH
		<u> </u>	A DUAL-HUBBED
	****		ARRANGEMENT TO
			PROVIDE A PROTECTED
			RING INTERCONNECTION
JP2084528	- Control of the Cont	8/23/1996	
(JP03-510178)	JP	(5/7/1991)	SOSNOSKY JOSEPH
		1 +3	

Page 2

	1		High-temperature, uncooled
roni ini		LHOHOOS	diode laser
<u>5.381,434</u>	US	1/10/1995	Bhat, Rajaram; Zah, Chung-er
(08/039,771)	1 <u>ns</u>		High-Temperature, Uncooled
			Diode Laser
CNZL04109147.3		12/15/2000	Bart Rabjaram;
(CN94109147.3)	CN	(9/9/1994)	Johan Tone
	<del>                                     </del>		Straiged alexanas quantum-
			well deale lasers
5,541,949		7/30/1996	
(08/38(),427)	<u>US</u>	(1/30/1995)	Bhet Rejorant; Zeh, Cjung-E:
331111111111111111111111111111111111111			Similed protection switching
			<u>in a wide orea network</u>
			background of the invention
<u>5,793,745</u>		8/11/1998	
(08/645,638)	US	(5/15/1996)	Manchester, James S.
			Bundled protection switching
			in a wide area network
CA2252807		7/4/2000	
(CA2252807)	CA	(5/5/1997)	Managates James S
			Methods and apparatus for
			ATM network
			ATMINELWOIK
			Hsing, Deh-phone K.; Wu,
	14.	Page 1	Tame-He Kant Lathe
and the second		12/26/2000	Cheng, Bo-Chao; Goncu,
6,167,025 (08/926,255)	US	(9/5/1997)	Yusul Gokse
	122		Connection set-up and path
		10 mg	assignment in wavelength
	1	l.	division multiplexed ring
	-	1 1	networks
	equantity comments		
5,999,288		12/7/1999	Ellinas, Georgios Nicos: Bala,
(09/170,454)	US	(10/12/1998)	Krishna: Chang, Gee-Kung
			Connection set-up and path
			assignment in wavelength
			division multiplexed ring
	1.		<u>networks</u>
		MILAMORE	Tillian Canada Mara Tala
CA2319805	CA	7/12/2005	Ellinas, Georgios Nicos; Bala, Krishna; Chang, Gee-Kung
(CA2319805)	CA	(1/19/1999)	I MISHIN, CHAIR, OCC-AUNK

			Method and system for media
	į		connectivity over a packet-
			based network
			Arango, Mauricio; Cahl,
	***		Louis; Cook, Michael J.; Ely,
			Thomas C.: Huitema,
<u>6,724,747</u>		4/20/2004	Christian; Obrock, Frederick;
(09/205,560)	US	(12/3/1998)	Smyk, Darek A.
			Method and system for media
			connectivity over a packet-
			based network
			Arango, Mauricio; Cahl,
	1		Louis; Cook, Michael J.; Ely,
	1		Thomas C.; Huitema,
0.40010006		11/9/2004	Christian; Obrock, Frederick;
CA2312325	G.	(12/3/1998)	Smyk, Darek A.
(CA2312325)	CA	(12/3/1990)	Method and apparatus for
			automated time domain
			monitoring in optical networks
	Marie de la companya		Anderson, William T.;
6,549,572		4/15/2003	Banwell, Thomas C.; Cheung,
(09/304,274)	US	(5/6/1999)	Nim K.; Hodge, James E.
100/130-1(21-1)			Method and apparatus for
			automated time domain
			monitoring in optical networks
			Anderson, William T.;
		7/5/2005	Banwell, Thomas C.; Cheung,
CA2331462		7/5/2005	Nim K.; Hodge, James E.
(CA2331462)	<u>CA</u>	(5/13/1999)	Method and apparatus for
			automated time domain
			monitoring in optical networks
			Anderson, William T.;
DE69929881	•	2/15/2006	Banwell, Thomas C.; Cheung,
(DE69929881.4)	DE	(5/13/1999)	Nim K.; Hodge, James E.
(1)(0)/10/001.7/			Method and apparatus for
			automated time domain
	To occur on the same		monitoring in optical networks
	And the state of t		Anderson, William T.:
an 1000 101	and the same	2/15/2006	Banwell, Thomas C.; Cheung,
GB1078481	CD		Nim K.; Hodge, James E.
(GB99921955.3)	<u>GB</u>	(5/13/1999)	Jun K., Hodge, Janes L.

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and analysis		1	automated time domain
曹	Ì		monitoring in optical networks
* 1	No.		Anderson, William T.;
TW142174	Photo Control of the	9/21/2001	Banwell, Thomas C.; Cheung.
The state of the s	P		
(TW088107769)	TW	(5/13/1999)	Nim K.; Hodge, James E.
	A		Method and apparatus for
			automated time domain
o Crista			monitoring in optical networks
			Anderson, William T.;
MY124085		6/30/2006	Banwell, Thomas C.; Cheung,
(MY9901890)	MY	(5/13/1999)	Nim K.; Hodge, James E.
11.177016701		7777	Method and apparatus for
			automated time domain
			monitoring in optical networks
***	e -		momorting in optical networks
			Anderson William T.
		0.000.0004	Anderson, William T.;
<u>MX222823</u>		9/20/2004	Banwell, Thomas C.; Cheung,
(MX10581)	MX	(5/13/1999)	Nim K.; Hodge, James E.
			Method and device for
			generating approximate
			message authentication codes
6,851,052		2/1/2005	-
(09/458,336)	US	(12/10/1999)	Graveman, Richard F.
1037.13612201		<u> </u>	Method and device for
	1		generating approximate
	į.		message authentication codes
7 167 094		1/23/2007	message damentication codes
7,167,984	770		Consumon Biohard F
(10/969,518)	US	(1/27/2005)	Graveman, Richard F.
			Accessing fiber fracture
nervo			surfaces in fiber optic
			connectors
	-		
6,513,218		<u>2/4/2003</u>	Gebizlioglu, Osman S.; Ozgur,
(09/832,693)	US	(4/11/2001)	Mustafa
			Apparatus for extracting a
	-		fiber from a fiber-ferrule
, T			
6,612,006	1	9/2/2003	Gebizlioglu, Osman S.; Ozgur,
(10/277,019)	US	(10/21/2002)	Mustafa
(1012/1,012)	<del>-   <u>&gt; </u></del>	110000000000000000000000000000000000000	Forward error correction code
			system
£ 11£ 42£		5/19/1992	2120011
5,115,436	TTC	(5/4/1990)	McAuley, Anthony J.
(07/521,114)	<u>US</u>	1/3/3/172201	Menuicy, midlony 2.

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			Communications architecture and buffer for distributing
AND THE PROPERTY OF THE PROPER		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	information services
	4 : 5	The state of the s	Gelman, Alexander;
			Kobrinski, Haim; Smoot,
5,341,474		8/23/1994	Lanny S.: Weinstein, Stephen
(07/884,515)	US	(5/15/1992)	Β,
			Communications architecture
			and buffer for distributing
and the second of the second o			information services
	To the second se		
			Gelman, Alexander;
			Kobrinski, Haim: Espool.
CA2181243		<u>9/26/2000</u>	Largey S.; Weinstein, Statten
(CA2181243)	CA	(2/2/1994)	<u>B</u> ,
			Method and system for
			detecting loss of signal in
		ac 25 g	wavelength division
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	multiplexed systems
			I Service Special Control of the Con
	]		Antoniades, Neophytos;
<u>6,115,154</u>		<u>9/5/2000</u>	Jackel Japet Lebr. Richards. Dwight Hogh; Xin, Wel
(09/156,715)	<u>US</u>	(9/18/1998)	
in the property of the Mills of the Control of the			METHOD AND SYSTEM FOR DETECTING LOSS OF
		A TOTAL CONTRACTOR	SIGNAL IN WAVELENGTH
	Transcriptor and the second		DIVISION MULTIPLEXALD
			SASIENZ SASIENZ
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		es de la companya de	NEOPHYTOS: JACKEL
		3/14/2006	JANET LEHR, RICHARDS
CA2343211	1	<u>3/14/2008</u> (1/11/1994)	DWIGHT HUGH XIN WEI
(CA2343211)	<u>CA</u>	(1111113541	METHOD AND SYSTEM
	- Annie Company		FOR DETECTING LOSS OF
			SIGNAL IN WAYELENGTH
	· · · · · · · · · · · · · · · · · · ·		DIVISION MULTIPLEXED
	<b>Р</b>		SYSTEMS
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			NEOPHYTOS: JACKEL
			JANET LEHR: RICHARDS
ED00045244-4	ED	8/26/1999	DWIGHT HUGH, XIN WEI

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P   (8/26/1999)   DWIGHT HUGH; XIN WEI	JP3670583		4/22/2005	
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MX230762   MX   9/21/2005   ANTONIADES   NEOPHYTOS: JACKEL   JANET LEHR: RICHARDS   DWIGHT HUGH: XIN WEI   METHOD AND SYSTEM   FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH   DIVISION MULTIPLEXED   SYSTEM   FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH   DIVISION MULTIPLEXED   SYSTEMS   ANTONIADES   NEOPHYTOS: JACKEL   JANET LEHR: RICHARDS   DWIGHT HUGH: XIN WEI   Polarization-diversified opto-electronic devices using a strained quantum well   S.117,469   S.726/1992   Cheung, Kwok-wai: Zah,	TH052708	111	9/20/1999	
SIGNAL IN WAVELENGTH   DIVISION MULTIPLEXED   SYSTEMS				
DIVISION MULTIPLEXED   SYSTEMS				
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MX230762 (MX2001002734)  MX  9/21/2005 (9/26/1999)  MX  9/21/2005 (9/26/1999)  METHOD AND SYSTEM FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS  ANTONIADES NEOPHYTOS: JACKEL JANET LEHR: RICHARDS DWIGHT HUGH: XIN WEI  POLIVISION MULTIPLEXED SYSTEMS  ANTONIADES NEOPHYTOS: JACKEL JANET LEHR: RICHARDS DWIGHT HUGH: XIN WEI Polarization-dependent and polarization-diversified opto- electronic devices using a strained quantum well  5.117,469  Cheung, Kwok-wai: Zah,				
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(MX2001002734)  MX  (9/26/1999)  DWIGHT HUGH; XIN WEI  METHOD AND SYSTEM FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS  ANTONIADES NEOPHYTOS; JACKEL JANET LEHR; RICHARDS DWIGHT HUGH; XIN WEI  Polarization-dependent and polarization-diversified opto- electronic devices using a strained quantum well  5,117,469  5/26/1992  Cheung, Kwok-wai; Zah,				NEOPHYTOS; JACKEL
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IN199158 (IN2001/00362/CHE)  IN  3/1/2006 (9/26/1999)  IN  3/1/2006 (9/26/1999)  Polarization-dependent and polarization-diversified opto-electronic devices using a strained quantum well  5/117,469  5/26/1992  Cheung, Kwok-wai; Zah,				
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IN199158 (IN2001/00362/CHE)  IN  3/1/2006 (9/26/1999)  IN  DWIGHT HUGH; XIN WEI  Polarization-dependent and polarization-diversified opto-electronic devices using a strained quantum well  5/117,469  5/26/1992  Cheung, Kwok-wai; Zah,				
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(IN2001/00362/CHE)  IN  (9/26/1999)  DWIGHT HUGH; XIN WEI  Polarization-dependent and polarization-diversified opto- electronic devices using a strained quantum well  5,117,469  5/26/1992  Cheung, Kwok-wai; Zah,	IN 100158		3/1/2006	JANET LEHR: RICHARDS
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			Hitless reconfiguration of a
			wavelength division
	4		multiplexed optical
			communication network
			Bala, Krishna; Chang, Gee-
			Kung; Ellinas, Georgios
The state of the s	E .		Nicos; Post, Michael; Shen,
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100/7001022/			Hitless reconfiguration of a
British Avenue			wavelength division
			multiplexed optical
			communication network
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<b>*</b>			Wei, John Yee-Keung; Post,
			Michael; Shen, Chien-Chung;
04000001		9/4/2001	Ellinas, Georgios N.; Chang,
CA2298584	CA	(12/23/1997)	Gee-Kung; Bala, Krishna
(CA2298584)	- LCA	(12/23/1991)	Remote estimation of round-
			trip delays in a data network
	**		trip delays in a data network
			Inventors: Arnold L.
	ĺ	10/20/2000	Neidhardt; Yegnanarayanan
7443801	1	10/28/2008	
(10/975,641)	US	(10/28/2004)	Chandramouli Remote estimation of round-
*			trip delays in a data network
	2		imp derays in a data network
			Investore Amold I
			Inventors: Arnold L.
			Neidhardt; Yegnanarayanan
CA2583595	CA	10/27/2005	Chandramouli
			Remote estimation of round-
			trip delays in a data network
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			Inventors: Arnoid L.
			Neidhardt; Yegnanarayanan
JP2007-539195	1b	10/27/2005	Chandramouli
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			trip delays in a data network
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EP05815125.9	EP	10/27/2005	Chandramouli
			Method and apparatus for
*			stabilizing attenuators in
	and a second	1.07.0001	optical networks
<u>6,207,949</u>	1770	3/27/2001	Jackel, Janet L.
(09/437.838)	US	(11/10/1999)	JACKEI, JAINEL L.

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			High-speed flexible variable-
			length-code decoder
		**************************************	rengui-code decoder
		10/00/1000	Sun, Ming-Ting: Tzou, Kou-
<u>5,173,695</u>		12/22/1992	
(07/546,415)	<u>US</u>	(6/29/1990)	Hu Duration limited statistical
distribution of the control of the c		3	multiplexing in packet
		i	
		£ 10 11 000	networks
5,121,383	***	6/9/1992	Golestani, S. Jamaloddin
(07/615,014)	<u>US</u>	(11/16/1990)	
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		6711004	systems
5.319.638		6/7/1994	I to This Am
(07/758,734)	<u>US</u>	(9/12/1991)	Lin, Huai-An
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			method and system
			Johnston, Cesar A.; Smith,
		FIGURDOF	David J.; Young, Jr., Kenneth
5,414,707		5/9/1995	
(08/160,526)	US	(12/1/1993)	<u>C.</u>
			Method and system for
			applying fiber to the curb
			architecture using a broadband gateway at service locations,
		d (00 ) (1000	including homes
<u>5,917,624</u>		6/29/1999	Wagner, Stuart S.
(08/693,732)	<u>US</u>	(8/7/1996)	Methods and systems for an
			improved reliability packet
			network
		2410/0002	network
6,535,485		3/18/2003	Story Boson F
(09/410,581)	US	(10/1/1999)	Story, Roger E.  Method and system for
			general-purpose interactive
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			Dalal, Siddhartha R.; Shim,
		0/15/0005	Hyong Sop; Wullert, II, John
6,868,544	1770	3/15/2005	R Hyong Sop; Wullert, II; John
(09/732,568)	US	(12/8/2000)	Method and apparatus for
			creating a presence monitoring
			contact list with dynamic
			membership
c 000 000		11/22/2005	memoeramp.
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(09/812,324)		1 25/25/145237	

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			Determining connection
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	US	(1/25/2002)	Story, Roger E.
(10/057,462)	<u> </u>	[172372002]	
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A sub-books			graceful reassignment of out-
		K-	of-kilter communications paths
			Y YYanan Wyana Dialand
7,061,869		6/13/2006	Luss, Hanan; Wong, Richard
(10/091,267)	US	(3/5/2002)	<u>T.</u>
			Virtual IP topology
	i		reconfiguration migration
		24 200	1CCOMITEGRATION TO STATION
7,085,242	į	8/1/2006	
(10/104,241)	<u>US</u>	(3/22/2002)	Liu, Kevin H.
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			communication elements
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7,289,456	1	10/30/2007	Gupta, Sanyogita; Ferrer.
	TIC	(4/8/2002)	Richard; Raheja, Raj C.
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H 250 200	ļ	4/15/2008	Khurana, Sumit; Samtani,
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(10/216,968)	<u>U\$</u>	(8/12/2002)	
			Self-healing bidirectional
			logical-ring network using
		t de la companya de l	crossconnects
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CA2112386		<u>1/12/1999</u>	
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[CALIESOO]	<del></del>		Bonded structure with portions
Table 1			of differing crystallographic
300	-		orientations, particularly
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			waveguide
1			
			ni ni ni
1			Bhat, Rajaram; Caneau,
5802232		9/1/1998	Catherine Genevieve; Koza,
(08/602,391)	US	(2/16/1996)	Mark A.; Yoo, Sung-Joo
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MY9903348	MY		
MX1371	<u>MX</u>		
MY2004747	MY		
TH061487	TH		
TW089121215	<u>rw</u>		

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(Signature MUST be notarized)	
STATE OF NEW JERSEY )	
COUNTY OF MIDDLESEE )	
of New Jerrey On January 28 2010, before me, Philip for said State, personally appeared Eclen Banuar on the basis of satisfactory evidence) to be the person whos acknowledged to me that he/she executed the same in his/he signature on the instrument the person, or the entity upon be instrument.	e name is subscribed to the within instrument and er authorized capacity, and that by his/her
WITNESS my hand and official seal.	
Signature the Jap Augus Terren	(Seal)
Attorney of the St. 1 Nov. Toman	

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PATENT REEL: 025353 FRAME: 0348

**RECORDED: 11/11/2010**