PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
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:	6515796	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	088245-7547
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**

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PATENT REEL: 025356 FRAME: 0369

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

Page 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
Dolarization-independent liquid crystal optical filter
S.068.749 11/26/1991 Iiquid crystal optical filter
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ARRANGEMENT TO
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CROSASSA RING INTERCONNECTION
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A DUAL-HUBBED ARRANGEMENT TO
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on t	1/10/1995	
US	(3/30/1993)	Bhat, Raiaram; Zah, Chung-e
		High-Temperature, Uncooled
		Diode Laser
	1	
	12/15/2000	Bert Rebjerem: Isher Tone
<u> CN</u>	(3(3)185561	
		Stroned algainus quantum: we'll divide lasers
	ammone	
770		Bhet Rejerem: Zeh Chung-E
143	+ ************************************	Boarded protection awareness
1		in a wide area network
	In the second of the second o	background of the invention
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8/11/1998	
us		Manchester, James S.
 		Bundled protection switching
	1	in a wide area network
The No.	7/4/2000	
CA	(5/5/1997)	Mencacater, James S.
100	100 mm	Methods and apparatus for
A STATE OF THE STA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	restoring controllique in an
		ATM network
1 1		
		Haing, Deh-phone K.; Wu.
1 18		Tenne-Ho: Kant, Latha:
		Cheng, Bo-Chao; Goncu. Yusuf Goksel
US	(3/2/1331)	Connection set-up and path
		assignment in wavelength
1 1 1 1 1 1 1		division multiplexed ring
1	···	networks
		50 80.0000 Bridge Bride Bridge Bridge Bridge Bridge Bridge Bridge Bridge Bridge Bridge
k 11	12/7/1999	Ellinas, Georgios Nicos; Bala,
US	(10/12/1998)	Krishne: Chane, Ger-Kung
		Connection set-up and path
	· ·	discipline of insurgious
		division multiplexed ring
· .	1	networks
1.	7/12/2005	Ellinas, Georgios Nicos: Bala,
	US US	US 12/15/2000 CN 7/30/1996 US 8/11/1998 US 5/15/1997) US 12/26/2000 (9/5/1997)

Page 3

			Method and system for media
•			connectivity over a packet-
			based network
1	1		300000000000000000000000000000000000000
			Arango, Mauricio; Cahl.
			Louis: Cook, Michael J.; Ely,
			Thomas C.: I-luitema.
6.724.747		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,
			Louis; Cook, Michael J.; Elv.
			Thomas C.: Huitems,
1		11/0/0004	Christian; Obrock, Frederick;
CA2312325	l	11/9/2004	
(CA2312325)	<u>CA</u>	(12/3/1998)	Smyk, Darek A.
	<u> </u>		Method and apparatus for
	İ		automated time domain
			monitoring in optical networks
			Anderson, William T.:
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	บร	(5/6/1999)	Nim K.: Hodge, James E.
(09/304.274)		13/3/3/22	Method and apparatus for
	ł		automated time domain
	İ		monitoring in optical networks
			IROMNOTHIS IN OPTICAL MEEWORKS
			A. James SSCOllege T.
	ļ		Anderson, William T.;
CA2331462		7/5/2005	Banwell, Thomas C.; Cheung,
(CA2331462)	CA	(5/13/1999)	Nim K.; Hodge, James E.
			Method and apparatus for
	1	1	automated time domain
			monitoring in optical networks
	į		
	1		Anderson, William T.;
		2/15/2006	Banwell, Thomas C.; Cheung,
DE69929881	D.		Nim K.: Hodge, James E.
(DE69929881.4)	DE	(5/13/1999)	The second secon
	1	1	Method and apparatus for
			automated time domain
			monitoring in optical networks
			4 4 4921913 200
	-		Anderson, William T.:
GB1078481	1	2/15/2006	Banwell, Thomas C.; Cheung,
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			Method and apparatus for
		,	automated time domain
	ĺ		monitoring in optical networks
}			Anderson, William T.:
TW142174	ţ	9/21/2001	Banwell, Thomas C.; Cheung,
(TW088107769)	TW	(5/13/1999)	Nim K.: Hodge, James E.
[1 W088107709]		(0/19/1999)	Method and apparatus for
	İ	}	
	1		automated time domain
·			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.
			Method and apparatus for
			automated time domain
			monitoring in optical networks
1		ļ	
	l		Anderson, William T.;
MX222823		9/20/2004	Banwell, Thomas C.; Cheung,
(MX10581)	MX	(5/13/1999)	Nim K.: Hodge, James E.
(MATOSOT)	- 1147E	10/10/12/2/	Method and device for
1			
			generating approximate
	İ	4 14 10 0 0 5	message authentication codes
6.851.052	1	2/1/2005	
(09/458,336)	US	(12/10/1999)	Graveman, Richard F.
			Method and device for
			generating approximate
			message authentication codes
7.167.984		1/23/2007	
(10/969,518)	US	(1/27/2005)	Graveman, Richard F.
			Accessing fiber fracture
			surfaces in fiber optic
			connectors
6.513,218		2/4/2003	Gebizlioglu, Osman S.: Ozgur,
(09/832.693)	us	(4/11/2001)	Mustafa
(07/632,073)		13/11/2001	Apparatus for extracting a
			fiber from a fiber-ferrule
}			Hoet Hollt a Hoet-felt its
	1	0/0/0000	Cabializate Carres S : Carres
6.612.006	1	9/2/2003	Gebizlioglu, Osman S.; Ozgur,
(10/277,019)	US	(10/21/2002)	Musiafa
	1		Forward error correction code
	1	######################################	system
<u>5.115.436</u>		5/19/1992	1,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4
(07/521,114)	<u>US</u>	(5/4/1990)	McAuley, Anthony J.

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	in in the second	· Landa de la company	THOUSANDON SERVICES
			Gelman, Alexander;
			Kobrinski, Haim; Smoot,
5,341,474	and the second s	8/23/1994	Lanny S.: Weinstein, Stephen
(07/884,515)	US	(5/15/1992)	<u>B</u> ,
			Communications architecture
			and buffer for distributing
			information services
	700		
			Gelman, Alexander;
			Kohroski, Haim: 250001.
CA2181243		<u>9/26/2</u> 000	Larmy S.; Websstein, Stering)
(CA2181243)	CA	(2/2/1994)	<u> B,</u>
			Method and system for
and the second of the second o			detecting loss of signal in
	T Y I I		wavelength division
			multiplexed systems
		1.2. 1.1.	Antoniades, Neophytos;
6,11 5,154		9/5/2000	Inchel Janet Lehr, Richards.
(09/156,715)	US	(9/18/1998)	Dwight Hugh; Xin, Wel
			METHOD AND SYSTEM
			FOR DETECTING LOSS OF
			SIGNAL IN WAYELENGTH
			DIVISION MULTIFLEXED
			SYSTEMS
			ANTONIADES
		Part March 1	NEOPHYTOS: JACKEL
CA2343211		3/14/2006	JANET LEHR, MICHARDS
(CA2343211)	<u>CA</u>	(1/11/1994)	DWIGHTHUGH XIN VE
			METHOD AND SYSTEM FOR DETECTING LOSS OF
			FOR DETECTING 1022 OF
			SHOVAL IN WAYDLENOTH
			DIVISION MULTIPLEXED
		,	SYSTEMS
	*		ANTONIADES
	1.0		NEOPHYTOS: JACKEL
			JANET LEHR, RICHARIAN
EP00045244.4	EP	8/26/1999	DWIGHT HUGH, XIN MEI

			METHOD AND SYSTEM
1			FOR DETECTING LOSS OF
1			SIGNAL IN WAVELENGTH
1			DIVISION MULTIPLEXED
		Ì	SYSTEMS
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			ANTONIADES
	İ		NEOPHYTOS: JACKEL
JP3670583	1	4/22/2005	JANET LEHR: RICHARDS
(JP2000-571589)	JP	(8/26/1999)	DWIGHT HUGH; XIN WEI
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			FOR DETECTING LOSS OF
			SIGNAL IN WAVELENGTH
			DIVISION MULTIPLEXED
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			METHOD AND SYSTEM
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		1	SIGNAL IN WAVELENGTH
			DIVISION MULTIPLEXED
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			NEOPHYTOS: JACKEL
MX230762	1	9/21/2005	JANET LEHR: RICHARDS
(MX2001002734)	MX	(9/26/1999)	DWIGHT HUGH: XIN WEI
(MAZOVIOSZIZ-II			METHOD AND SYSTEM
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1	-		SIGNAL IN WAVELENGTH
			DIVISION MULTIPLEXED
			SYSTEMS
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			ANTONIADES
			NEOPHYTOS: JACKEL
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(IN2001/00362/CHE)	IN	(9/26/1999)	DWIGHT HUGH: XIN WEI
			Polarization-dependent and
	Į		polarization-diversified opto-
			electronic devices using a
			strained quantum well
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			wavelength division
i			multiplexed optical
Ì			communication network
			Bala, Krishna; Chang, Gee-
	1		Kung; Ellinas, Georgios
			Nicos; Post, Michael; Shen.
6.075.631	1	6/13/2000	Chien-Chung; Wei, John Yce-
(08/926,332)	US	(9/5/1997)	Keung
(06/920,332)		1915(1957)	Hitless reconfiguration of a
			wavelength division
	1		multiplexed optical
	ŀ		communication network
	1		Communication network
			Wei John Von Vonner Boot
			Wei, John Yee-Keung; Post,
1			Michael: Shen, Chien-Chung:
CA2298584		9/4/2001	Ellinas, Georgios N.; Chang,
(CA2298584)	CA	(12/23/1997)	Gee-Kung; Bala, Krishna
			Remote estimation of round-
			trip delays in a data network
			Inventors: Arnold L.
7443801		10/28/2008	Neidhardt: Yegnanarayanan
(10/975.641)	US	(10/28/2004)	Chandramouli
			Remote estimation of round-
			trip delays in a data network
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			Inventors: Arnoid 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.
	1		Neidhardt: Yegnanarayanan
JP2007-539195	ſР	10/27/2005	Chandramouli
71.4001-339133	- -		Remote estimation of round-
			trip delays in a data network
			Inventors: Arnold L.
			Neidhardt: Yegnanarayanan
7705015105 0	EP	10/27/2005	Chandramouli
EP05815125.9	EE	1012112002	Method and apparatus for
			stabilizing attenuators in
			optical networks
C 202 040		3/27/2001	ANIMALI INDIVIDUE
6,207,949	110	(11/10/1999)	Jackel, Janet L.
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			length-code decoder
			ICIEUR COCO COCOCO.
E 152 605		12/22/1992	Sun, Ming-Ting: Tzou, Kou-
5.173.695	US	(6/29/1990)	Hu
(07/546,415)	<u> </u>	(0/29/1990)	Duration limited statistical
			multiplexing in packet
			networks
F (01 000		6/9/1992	270111 0210
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(07/615,014)		(III) (VI) POO	Link-by-link congestion
			control for packet transmission
	1		systems
5 210 620		6/7/1994	
5.319.638 (07/758.734)	บร	(9/12/1991)	Lin, Huai-An
(011136,134)			Broadband ISDN processing
			method and system
	1		
			Johnston, Cesar A.; Smith,
5,414,707	ļ	5/9/1995	David J.; Young, Jr., Kenneth
(08/160,526)	US	(12/1/1993)	C.
(00/100,020)			Method and system for
!	1		applying fiber to the curb
			architecture using a broadband
	{		gateway at service locations.
	i	1	including homes
5.917.624		6/29/1999	
(08/693,732)	<u>us</u>	(8/7/1996)	Wagner, Stuart S.
			Methods and systems for an
			improved reliability packet
			network
6,535,485		3/18/2003	
(09/410,581)	<u>us</u>	(10/1/1999)	Story, Roger E.
			Method and system for
			general-purpose interactive
			notifications
}			Dalal, Siddhartha R.; Shim.
6.868,544		3/15/2005	Hyong Sop; Wullert, II, John
(09/732,568)	US	(12/8/2000)	R
			Method and apparatus for
			creating a presence monitoring
			contact list with dynamic membership
		11/22/2005	membersmp
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			burst support signal
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TW089121215	TW		

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IN WITNESS WHEREOF this Assignment of Patent Rights is executed at /12 catalog on an annual of the second of the s

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By: Name: __

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(Signature MUST be notarized)	
STATE OF <u>NEW JURY</u>)) 55. COUNTY OF MIDDLES SE)	
for said State, personally appeared <u>Foliar Bacunt</u> on the basis of satisfactory evidence) to be the person whose name acknowledged to me that he/she executed the same in his/her authorized instrument.	ne is subscribed to the within instrument and horized capacity, and that by his/her
WITNESS my hand and official seal. Signature	(Seal)

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PATENT REEL: 025356 FRAME: 0381

RECORDED: 11/12/2010