

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Telcordia Licensing Company, LLC	01/25/2011

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 39

Property Type	Number
Patent Number:	5155742
Patent Number:	5177769
Patent Number:	5222101
Patent Number:	5226045
Patent Number:	5259026
Patent Number:	5361258
Patent Number:	5363375
Patent Number:	5363376
Patent Number:	5412658
Patent Number:	5425090
Patent Number:	5426641
Patent Number:	5475677
Patent Number:	5541986
Patent Number:	5490203

CH \$1560.00 5155742

501471510

**PATENT
 REEL: 025977 FRAME: 0923**

Patent Number:	5606596
Patent Number:	5635980
Patent Number:	5796729
Patent Number:	5999610
Patent Number:	6091713
Patent Number:	6130939
Patent Number:	6185519
Patent Number:	6282274
Patent Number:	6463270
Patent Number:	6766364
Patent Number:	6978313
Patent Number:	7020256
Patent Number:	5392402
Patent Number:	5519772
Patent Number:	5533115
Patent Number:	5572579
Patent Number:	5600643
Patent Number:	5696815
Patent Number:	5751961
Patent Number:	5870452
Patent Number:	5883946
Patent Number:	5937053
Patent Number:	5949870
Patent Number:	5966434
Patent Number:	6144644

CORRESPONDENCE DATA

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Thomas J. Loos

Total Attachments: 16

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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 B 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*");

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
5,155,742 (07/695,460)	US	10/13/1992 (5/3/1991)	Time Dispersion Equalizer Receiver With A Time-Reversal Structure For TDMA Portable Radio Systems Ariyavisitakul, Sirikiat; Arnold, Hamilton W.	Patented Case
5,177,769 (07/695,416)	US	1/5/1993 (5/3/1991)	Digital Circuits For Generating Signal Sequences For Linear TDMA Systems Arnold, Hamilton W.; Sollenberger, Nelson R.	Patented Case
5,222,101 (07/695,524)	US	6/22/1993 (5/3/1991)	Phase Equalizer For TDMA Portable Radio Systems Ariyavisitakul, Sirikiat; Arnold, Hamilton W.	Patented Case
5,226,045 (07/880,054)	US	7/6/1993 (5/7/1992)	Method And Apparatus For Autonomous Selective Routing During Radio Access In TDMA Portable Radio Systems Chuang, Justin C.	Patented Case
5,259,026 (07/809,923)	US	11/2/1993 (12/18/1991)	Method for Speed Calling Automatic Update Johnson, Carl E.	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
5,361,258 (08/142,533)	US	11/1/1994 (10/22/1993)	Beacon Detection System For Sharing Spectrum Between Wireless Communications Systems And Fixed Microwave Systems Arnold, Hamilton W.; Devasirvathan, Daniel M.; Sollenberger, Nelson R.; Sutliff, Larrie G.; Varma, Vijay K.	Patented Case
5,363,375 (08/100,020)	US	11/8/1994 (7/30/1993)	Method And Apparatus For Synchronizing Timing Among Radio Ports In Wireless Communications Systems Using Hierarchical Scheme Chuang, Justin C.; Sollenberger, Nelson R.	Patented Case
5,363,376 (08/100,515)	US	11/8/1994 (7/30/1993)	Method And Apparatus For Synchronizing Timing Among Radio Ports In Wireless Communications Systems Chuang, Justin C.; Sollenberger, Nelson R.	Patented Case
5,412,658 (08/142,553)	US	5/2/1995 (10/22/1993)	Beacon Detection Method And Apparatus For Sharing Spectrum Between Wireless Communications Systems And Fixed Microwave Systems Arnold, Hamilton W.; Devasirvathan, Daniel M.; Sollenberger, Nelson R.; Sutliff, Larrie G.; Varma, Vijay K.	Patented Case
5,425,090 (08/163,316)	US	6/13/1995 (12/7/1993)	System And Method For Providing Advanced Intelligent Network Services Orriss, Richard A.	Patented Case
CA2176477 (CA2176477)	CA	5/4/1999 (12/2/1994)	System And Method For Providing Advanced Intelligent Network Services	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Orriss, Richard Allan	
5,426,641 (08/187,973)	US	6/20/1995 (1/28/1994)	Adaptive Class AB Amplifier For TDMA Wireless Communications Systems Afrashteh, Alireza; Sollenberger, Nelson R.	Patented Case
5,475,677 (08/366,944)	US	12/12/1995 (12/29/1994)	Compatible Licensed And Unlicensed Band Portable Handset Unit For TDMA Wireless Communications System Arnold, Hamilton Webster; Chang, Li Fung; Noerpel, Anthony Robert; Sollenberger, Nelson Ray; Ziegler, Robert Anthony	Patented Case
CA2206473 (CA2206473)	CA	1/18/2000 (12/15/1995)	Compatible Licensed And Unlicensed Band Portable Handset Unit For TDMA Wireless Communications System Chang, Li Fung; Sollenberger, Nelson Ray; Arnold, Hamilton Webster; Ziegler, Robert Anthony; Noerpel, Anthony Robert	Patented Case
JP2984061 (JP08-521036)	JP	9/24/1999 (12/15/1995)	Compatible Licensed And Unlicensed Band Portable Handset Unit For TDMA Wireless Communications System Arnold, Hamilton Webster; Chang, Li Fung; Noerpel, Anthony Robert; Sollenberger, Nelson Ray; Ziegler, Robert Anthony	Patented Case
KR10-0260469 (KR10-1997-	KR	4/7/2000 (12/15/1995)	Portable Handset For TDD/FDD Wireless	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
0704438)			Communication Arnold, Hamilton Webster; Chang, Li Fung; Noerpel, Anthony Robert; Sollenberger, Nelson Ray; Ziegler, Robert Anthony	
5,541,986 (08/097,509)	US	7/30/1996 (7/27/1993)	Method And System For Automated Telecommunications Service Script Consolidation And Downloading Hou, David T.	Patented Case
5,490,203 (08/097,148)	US	2/6/1996 (7/26/1993)	Method And System Utilizing A Location Caching Strategy To Locate Nomadic Users In A Communication Services System Jain, Ravi Kumar; Lo, Charles Nung; Mohan, Seshadri	Patented Case
5,606,596 (08/435,571)	US	2/25/1997 (5/5/1995)	Method And System Utilizing A Pointer Strategy To Locate Nomadic Users In A Communication Services System Jain, Ravi Kumar; Lo, Charles Nung; Mohan, Seshadri	Patented Case
5,635,980 (08/416,418)	US	6/3/1997 (4/4/1995)	System And Method For Customer Premises Broadband Interface With On-Hook Alerting Lin, Steve Min-Chou; Link, Frederick Charles; Schwartz, Barry Kuhn	Patented Case
CA2251470 (CA2251470)	CA	10/3/2000 (4/10/1996)	Customer Premises Broadband Interface System And Method Schwartz, Barry Kuhn; Link, Frederick Charles; Lin, Steve Min-Chou	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
JP3233412 (JP09-536140)	JP	9/21/2001 (4/10/1996)	Customer Premises Broadband Interface System And Method Lin, Steve Min-Chou; Link, Frederick Charles; Schwartz, Barry Kuhn	Patented Case
5,796,729 (08/641,161)	US	8/18/1998 (5/9/1996)	Integrated Telecommunication System Architecture For Wireless And Wireline Access Featuring PACS Radio Technology Greaney, Shaun J.; Leland, Kenneth W.	Patented Case
TW104550 (TW085106864)	TW	7/1/1999 (6/7/1996)	Integrated telecommunication system architecture for wireless and wireline access featuring PACS radio technology used for both highly cost effective of small scale application yet field upgrade-expandable to applications having a significant number of additional lines Greaney, Shaun J.; Leland, Kenneth W.	Patented case
CA2252473 (CA2252473)	CA	4/9/2002 (6/18/1996)	Integrated Telecommunication System Architecture For Wireless And Wireline Access Featuring PACS Radio Technology Leland, Kenneth W.; Greaney, Shaun J.	Patented Case
5,999,610 (08/882,276)	US	12/7/1999 (6/25/1997)	Managing Feature Interactions In A Telecommunications System Such As An Intelligent Network Lin, Fuchun Joe; Pinheiro, Robert A.	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
CA2257939 (CA2257939)	CA	12/12/2000 (6/25/1997)	Managing Feature Interactions In A Telecommunications System Such As An Intelligent Network Lin, Fuchun Joe; Pinheiro, Robert A.	Patented Case
6,091,713 (09/059,065)	US	7/18/2000 (4/13/1998)	Method And System For Estimating The Ability Of A Subscriber Loop To Support Broadband Services Lechleider, Joseph William; Narain, Sanjai; Woloszynski, Charles Howard	Patented Case
AU745135 (AU33825/99)	AU	3/14/2002 (4/5/1999)	Method And System For Estimating The Ability Of A Subscriber Loop To Support Broadband Services Lechleider, Joseph William; Narain, Sanjai; Woloszynski, Charles Howard	Patented Case
CA2328216 (CA2328216)	CA	12/2/2003 (4/5/1999)	Method And System For Estimating The Ability Of A Subscriber Loop To Support Broadband Services Narain, Sanjai; Woloszynski, Charles Howard; Lechleider, Joseph William	Patented Case
CNZL99805042.3 (CN99805042.3)	CN	4/28/2004 (4/5/1999)	Method And System For Estimating The Ability Of A Subscriber Loop To Support Broadband Services Lechleider, Joseph William; Narain, Sanjai; Woloszynski, Charles Howard	Patented Case
JP3654428 (JP2000-544083)	JP	3/11/2005 (4/5/1999)	Method And System For Estimating The Ability Of A Subscriber Loop To Support Broadband Services	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Lechleider, Joseph William; Narain, Sanjai; Woloszynski, Charles Howard	
KR10-0404240 (KR10-2000-7011390)	KR	10/22/2003 (4/5/1999)	Method And System For Estimating The Ability Of A Subscriber Loop To Support Broadband Services Lechleider, Joseph William; Narain, Sanjai; Woloszynski, Charles Howard	Patented Case
IN202333 (IN00488/DEL)	IN	4/5/1999 (4/5/1999)	Method and System for Estimating the Ability of a Subscriber Loop to Support Broadband Services Lechleider, Joseph William; Narain, Sanjai; Woloszynski, Charles Howard	Patented Case
6,130,939 (08/907,599)	US	10/10/2000 (8/8/1997)	Apparatus And Method For Number Portability Call Processing Cochinwala, Mumir; Cohen, Ernest Samuel	Patented Case
6,185,519 (09/204,019)	US	2/6/2001 (12/1/1998)	Method And System For Feature Interaction Detection In A Telecommunication Network Lin, Fuchun Joseph; Ghosh, Abhrajit; Liu, Hong	Patented Case
6,282,274 (09/350,708)	US	8/28/2001 (7/9/1999)	Selectable Billing Options For A Single Communications Account Jain, Ravi; Wolff, Richard Saul	Patented Case
6,463,270 (08/592,212)	US	10/8/2002 (1/26/1996)	Method And Apparatus Supporting Non-Geographic Telephone Numbers Chang, Li-Fung; Jain, Ravi Kumar; Rajagopalan,	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Subhashini	
CA2243343 (CA2243343)	CA	7/29/2003 (3/27/1996)	Method And Apparatus Supporting Non-Geographic Telephone Numbers Chang, Li-Fung; Rajagopalan, Subhashini; Jain, Ravi Kumar	Patented Case
JP3013048 (JP09-526807)	JP	12/17/1999 (3/27/1996)	Method And Apparatus Supporting Non-Geographic Telephone Numbers Chang, Li-Fung; Jain, Ravi Kumar; Rajagopalan, Subhashini	Patented Case
KR10-0284361 (KR10-1998-0705736)	KR	12/19/2000 (3/27/1996)	Method And Apparatus Supporting Non-Geographic Telephone Numbers Chang, Li-Fung; Jain, Ravi Kumar; Rajagopalan, Subhashini	Patented Case
IN238749 IN1252/DEL/96	IN	2/18/2010 (6/7/1996)	Method and Apparatus Supporting Non-Geographic Telephone Numbers Chang, Li-Fung; Jain, Ravi Kumar; Rajagopalan, Subhashini	Patented Case
6,766,364 (10/047,255)	US	7/20/2004 (1/15/2002)	Template Based Configuration And Validation Of A Network For Enabling A Requested Service To Be Compatible With The Previously Enabled Services Moyer, Stanley L.; Tsang, Simon	Patented Case
CA2470704 (CA2470704)	CA	9/15/2009 (1/14/2003)	Network Configuration Management Moyer, Stanley L.; Tsang,	Patented case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Simon	
EP03702088.0	EP	1/14/2003	Network Configuration Management Moyer, Stanley L.; Tsang, Simon	Pending
6,978,313 (09/626,437)	US	12/20/2005 (7/27/2000)	Method And System For Transporting Generic Data Messages Over The Public Switched Telephone Network To Customer Premises Equipment Without Establishing A Call Pietrowicz, Stanley	Patented Case
CA2378312 (CA2378312)	CA	6/5/2007 (7/27/2000)	Method And System For Transporting Generic Data In A PSTN Pietrowicz, Stanley	Patented Case
EP00952236.8	EP	7/27/2000	Method And System For Transporting Generic Data In A PSTN Pietrowicz, Stanley	Pending
NZ516501 (NZ20000516501)	NZ	3/9/2004 (7/27/2000)	Method And System For Transporting Generic Data In A PSTN Pietrowicz, Stanley	Patented case
TW221915 (TW089115237)	TW	10/11/2004 (7/29/2000)	Method And System For Transporting Generic Data Messages Over The Public Switched Telephone Network To Customer Premises Equipment Without Establishing A Call Pietrowicz, Stanley	Patented Case
7,020,256	US	3/28/2006	Dynamic Telephone Numbering	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
(10/350,855)		(1/24/2003)	System Jain, Ravi; Wullert, II, John R.	
5,392,402 (08/084,386)	US	2/21/1995 (6/29/1993)	Broadband Intelligent Telecommunications Network And Method Employing A Resource System To Support Network Services Robrock, II, Richard B.	Patented Case
CA2166284 (CA2166284)	CA	12/12/2000 (6/16/1994)	Broadband Intelligent Telecommunications Network And Method Employing A Resource System To Support Network Services Robrock, II, Richard Barker, II	Patented Case
5,519,772 (08/168,612)	US	5/21/1996 (1/31/1994)	Network-Based Telephone System Having Interactive Capabilities Akman, Aaron A.; Donnelly, Patrick J.; Hollenbach, Steven A.; Kret, Michael A.	Patented Case
5,533,115 (08/334,120)	US	7/2/1996 (11/4/1994)	Network-Based Telephone System Providing Coordinated Voice And Data Delivery Hollenbach, Steven A.; Martin, Michael A.; Novak, Thomas S.; Warznak, Robert S.	Patented Case
CA2179498 (CA2179498)	CA	11/2/1999 (1/30/1995)	A Network-Based Telephone System Having Interactive Capabilities Akman, Aaron Arthur ; Donnelly, Patrick James; Hollenbach, Steven Andrew; Kret, Michael Anthony	Patented case
JP3058450 (JP08-515383)	JP	4/21/2000 (11/1/1995)	A Network-Based Telephone System Providing Coordinated Voice And Data Delivery	Patented case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Hollenbach Steven Andrew; Martin Michael Allen; Novak Thomas Stephen; Warznak Robert Stephen	
5,572,579 (08/417,542)	US	11/5/1996 (4/6/1995)	System And Method For Providing Portable Telephone Number Service Orriss, Richard A.; Balazs, Margaret K.; Castrovinci, Laura L. T.; Cebulka, Kathleen D.; Chen, Yea-Cheung E.; Crystal, Neal N.; Gaylord, Kelly J.; Hartley, George W.	Patented Case
CA2217037 (CA2217037)	CA	6/6/2000 (4/4/1996)	A System And Method For Providing Portable Telephone Number Service Crystal, Neal Norman ;Balazs, Margaret Katherine ;Orriss, Richard Allan ;Castrovinci, Laura Leigh Tedman; Cebulka, Kathleen Dickens ; Gaylord, Kelly Jean ; Chen, Yea- Cheiung Eric ; Hartley, George White	Patented
5,600,643 (08/125,978)	US	2/4/1997 (9/23/1993)	Broadband Intelligent Telecommunications Network And Method Providing Enhanced Capabilities For Customer Premises Equipment Robrock, II, Richard B.	Patented Case
CA2169960 (CA2169960)	CA	8/7/2001 (9/13/1994)	Broadband Intelligent Telecommunications Network And Method Providing Enhanced Capabilities For Customer Premises Equipment Robrock, Richard Barker, II	Patented Case
5,696,815 (08/432,578)	US	12/9/1997 (5/1/1995)	Method And Apparatus For Delivering Caller Identification Information And Services	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Smyk, Darek Andrew	
CA2248252 (CA2248252)	CA	6/12/2001 (6/19/1996)	Method And Apparatus For Delivering Caller Identification Information And Services Smyk, Darek Andrew	Patented
5,751,961 (08/594,749)	US	5/12/1998 (1/31/1996)	Integrated Internet System For Translating Logical Addresses Of Internet Documents To Physical Addresses Using Integrated Service Control Point Smyk, Darek Andrew	Patented Case
CA2242895 (CA2242895)	CA	6/17/2003 (1/17/1997)	System And Method For Integrating Iscp And Internet Services Smyk, Darek A	Patented case
5,870,452 (08/825,580)	US	2/9/1999 (3/31/1997)	System And Method For Controlling Message Looping Between Network Elements Hayduk, John D.; Huang, Patricia; Chien, Lawrence; Jodidio, Alexander; Wood, Carla A.; Edwards, Debbie	Patented Case
5,883,946 (08/757,308)	US	3/16/1999 (11/27/1996)	Method And Apparatus For Provisioning Customized Telecommunications Services Beck, Douglas; Chan, Albert L.; Tauv, Sary; Wang, Lei Lei; White, Patrick K.	Patented Case
5,937,053 (08/782,472)	US	8/10/1999 (1/10/1997)	System And Method For Processing International Telephone Numbers Lee, Linda W.; Willner, Robert S.	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
CA2242759 (CA2242759)	CA	10/3/2000 (1/10/1997)	System And Method For Processing International Telephone Numbers Lee, Linda W.; Willner, Robert S.	Patented Case
5,949,870 (08/831,492)	US	9/7/1999 (3/31/1997)	System And Method For Providing Local Number Portability Service Hayduk, John D.; Bajzath, James Andrew; Huang, Patricia; Schafer, Craig Loren	Patented Case
CA2283851 (CA2283851)	CA	2/4/2003 (3/27/1998)	System And Method For Providing Local Number Portability Service Hayduk, John D.; Bajzath, James Andrew; Huang, Patricia; Schafer, Craig Loren	Patented Case
5,966,434 (08/829,595)	US	10/12/1999 (3/31/1997)	System And Method For Managing Feature Interaction Of Telephone Services Schafer, Craig Loren; Valin, Steven Eric; Weinrich, Timothy Marc; Fisher, Gregory Michael; Beck, Douglas	Patented Case
CA2283861 (CA2283861)	CA	8/13/2002 (3/27/1998)	System And Method For Managing Feature Interaction Of Telephone Services Schafer, Craig Loren; Valin, Steven Eric; Weinrich, Timothy Marc; Fisher, Gregory Michael; Beck, Douglas	Patented Case
JP3507510 (JP10-541836)	JP	12/26/2003 (3/27/1998)	System And Method For Managing Feature Interaction Of Telephone Services Schafer, Craig Loren; Valin, Steven Eric; Weinrich, Timothy Marc; Fisher, Gregory Michael;	Patented Case

Patent or application no.	Country	Filing Date	Title of Patent and Inventors	Status
			Beck, Douglas	
6,144,644 (09/082,243)	US	11/7/2000 (5/20/1998)	System And Method For Implementing Call Waiting Functions Over A Network Bajzath, James A.; Ghoghari, Nilay; Smyk, Darek A.	Patented Case

(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

(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).

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Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

