

PATENT ASSIGNMENT

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<table border="1"><tr><td>Name:</td><td>Telcordia Licensing Company LLC</td></tr><tr><td>Street Address:</td><td>1 Telcordia Drive 5G116</td></tr><tr><td>City:</td><td>Piscataway</td></tr><tr><td>State/Country:</td><td>NEW JERSEY</td></tr><tr><td>Postal Code:</td><td>08854</td></tr></table>		Name:	Telcordia Licensing Company LLC	Street Address:	1 Telcordia Drive 5G116	City:	Piscataway	State/Country:	NEW JERSEY	Postal Code:	08854																						
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Application Number:	60855709

Application Number:	60855710
Application Number:	60861161
Application Number:	60901909
Application Number:	60963641

CORRESPONDENCE DATA

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NAME OF SUBMITTER:

Philip J. Feig

Total Attachments: 13

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ASSIGNMENT

WHEREAS, Telcordia Technologies, Inc., a Delaware corporation having offices at One Telcordia Drive, Piscataway, New Jersey 08854, ("Telcordia"), owns, by assignment, all right, title, and interest in patents and patent applications listed in Exhibit A (collectively the "Patent Assets"), including any inventions claimed therein; and

WHEREAS, Telcordia Licensing Company LLC ("TLC"), a wholly owned subsidiary of Telcordia having offices at One Telcordia Drive, Piscataway, New Jersey 08854, has been created to take title to the Patent Assets and to enter into agreements with third parties to transfer and/or license and enforce such Patent Assets;

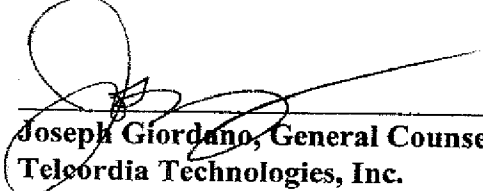
WHEREAS, Telcordia and TLC have entered into an Intellectual Property Assignment and Grant-back License Agreement dated February 20, 2009 (the "Agreement") whereby TLC, among other rights received Title to such Patents Assets subject to certain licenses and retained rights.

NOW THEREFORE, in consideration of the assignments, promises, covenants and warranties set forth below, and for other good and valuable consideration, the receipt, adequacy and sufficiency of which are acknowledged by each party hereto, the parties, intending to be legally bound, agree as follows:

Subject to any licenses and rights previously granted including the retained rights and licenses under the Agreement, effective February 20, 2009, TELCORDIA HEREBY assigns, transfers, and sets over to TLC, its lawful successors and assigns, Telcordia's entire right, title, and interest in and to the Patent Assets, and the inventions claimed therein; and Telcordia hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for these inventions to TLC, its successors and assigns, in accordance with the terms of this Assignment;

AND, TELCORDIA HEREBY further covenants that Telcordia has the full right to convey the interest assigned by this Assignment, Telcordia will take all action and execute all documents necessary to perfect the interest assigned hereby, and Telcordia has not executed and will not execute any agreement in conflict with this Assignment;

IN WITNESS WHEREOF, I/we hereunto set my/our hand and seal on the day and year indicated.


Joseph Giordano, General Counsel and Secretary
Telcordia Technologies, Inc.

Date: 6/14/09

Exhibit A

Patent or Application no.	Issue Date (Filing Date)	Title of Patent or Application and Names of Inventors
06/752052	(7/5/1985)	Method for preparation of silicate glasses of controlled index of refraction and optical device including same Bagley, Brian G.
06/888733	(7/21/1986)	Data Base Access System Eric J. Gausmann
07/050045	(5/15/1987)	Method for preparation of silicate glasses of controlled index of refraction and optical device including same Bagley, Brian G.
07/125463	(11/25/1987)	Real time fault tolerant transaction processing system John O. Boese
07/151639	(2/2/1988)	Methods and Apparatus for Information Storage and Retrieval Richard M. Nemes
07/166267	(3/10/1988)	Ultrawide-bandwidth low-noise optical receiver Gimlett, James L.
07/257218	(10/13/1988)	METHOD AND APPARATUS FOR SELECTIVELY PROCESSING OF PAGINATED OUTPUT
07/284653	(12/15/1988)	Coherent Detection Loop Distribution System Albanese, Andres;
07/326976	(3/22/1989)	Methods and Apparatus for Information Storage and Retrieval Richard M. Nemes
07/345983	(5/2/1989)	Modular architecture for very large packet switch Lee, Tony T.
07/351377	(5/15/1989)	Routing an incoming data stream to parallel processing stations Krishnan, Komandur R.
07/389420	(8/7/1989)	Adaptive Transform Coding Using Variable Block Size Chen, Cheng-Tie
07/457285	(12/27/1989)	Routing of network traffic Chung, Fan R. K.
07/537683	(6/14/1990)	High Performance Arbitration Kuo-Chu Lee
07/577219	(8/31/1990)	Self-healing meshed network using logical ring structures Sandesara, Niranjana B.
07/627659	(12/14/1990)	SERVICE CLOCK RECOVERY FOR VARIABLE BIT RATE SERVICES HUNG-HSIANG J. CHAO
07/629373	(12/18/1990)	Systems And Processes Specifying Customized Customer Telecommunication Services Using A Graphical Interface Babson, III, David L

Patent or Application no.	Issue Date (Filing Date)	Title of Patent or Application and Names of Inventors
07/629390	(12/18/1990)	Systems and Processes for Visualizing Execution of Customer Services Babson, David. L III; Ely, Thomas C.
07/630557	(12/20/1990)	System and Method for Updating Database Values Without the Use of Locking Operations Thomas F. Bowen
07/637137	(1/3/1991)	Distributed modular packet switch employing recursive partitioning Chao, Hung-Hsiang J.
07/640134	(1/3/1991)	OBLIQUE FRACTURING OF OPTICAL FIBERS BY ANGLED SCORING Lyn Curtis
07/769873	(10/1/1991)	SCHEDULER FOR MULTICAST CELL TRANSMISSION Anindo Bagchi
07/827329	(1/29/1992)	Smoothing delay-sensitive traffic offered to asynchronous transfer mode networks Lakshman, Tirunell V.
07/833974	(2/11/1992)	Method and system for lossless data compression and fast recursive expansion Belcea, John Martin
07/934240	(08/25/1992)	System And Method For Creating, Transferring, And Monitoring Services In A Telecommunication System Nazif, Zaher A.
07/964330	(10/21/1992)	Broadband private virtual network service and system Ahmed, Masuma; Walters, Stephen M.
07/972504	(11/06/1992)	A Method Of Creating And Implementing Administrative Call Processing Procedures Nazif, Zaher Amin; Shastry, Subramanya Kolpe; Vinciguerra, Lori J
07/972529	(11/06/1992)	System And Method For Creating, Transferring, And Monitoring Services In A Telecommunication System Fisher, Gregory Michael; Shastry, Subramanya Kolpe; Man, Susan Kuo-Kung; Chu, Edith Hsiao-yin; Nazif, Zaher Amin; Chu, Francis Yiu-keung; Nassirpour, S M
07/987516	(12/08/1992)	Method And System For Detecting At A Selected Station An Alerting Signal In The Presence Of Speech Battista, Ralph N.; Bress, James R.; Mowafy, Hala B.; Pietrowicz, Stanley;
07/990962	(12/15/1992)	Magnetic spin transistor Johnson, Mark B.
08/015950	(2/10/1993)	Method and system for compensating for coupling between circuits of quaded cable in a telecommunication transmission system Lechleider, Joseph W.
08/063661	(5/20/1993)	INTELLIGENT BROADBAND COMMUNICATION SYSTEM AND METHOD Robrock, II, Richard B.

Patent or Application no.	Issue Date (Filing Date)	Title of Patent or Application and Names of Inventors
08/146249	(11/02/1993)	Method And System For Routing Traffic In A Multiprocessor Computer System To Minimize Traffic Congestion Grewal, Kaiwant S.
08/201106	(2/23/1994)	Efficient electronic money Yacobi, Yacov
08/245313	(5/18/1994)	Method and system for dynamic interface contract creation Doris, Jr., Daniel Joseph; Solar, Donald Joseph
08/305859	(09/14/1994)	System And Method For Creating, Transferring, And Monitoring Services In A Telecommunication System Nazif, Zaher A.
08/336720	(11/9/1994)	Method and system for lossless data compression and fast recursive expansion Belcea, John Martin
08/372759	(1/13/1995)	Protecting confidential information in a database for enabling targeted advertising in a communications network Gifford, Warren S.; Griffeth, Nancy D.; Katz, James E.
08/389881	(2/17/1995)	Methods and apparatus for implementing data networking system having object-oriented architecture Heindel, Lee Edward; Gene, Elizabeth Ann; Hoffner, Barry Franklin; Kasten, Vincent Alan; Koh, Refen; Ramaprasad, Thillastanam Krishnaswamy
08/431989	(5/1/1995)	System and Methods for Providing Videoconferencing Services Thomas C. Ely
08/480716	(06/07/1995)	Method Of Creating User-Defined Call Processing Procedures Fisher, Gregory M.
08/907705	(8/8/1997)	High Performance Asynchronous Data Replication Yu, Min Tae; Cochinwala, Munir; Lee, K-C
08/907752	(8/8/1997)	A Fault Tolerant Distributing Client/Server Dated Communication System and Method Liu, Won-Pin; Yu, Min Tae; Lee, K-C; Hwang, Ai-Hwa; Cochinwala, Munir; Tong, Chao-Chi; Cheng, Lee-Tin
08/908641	(8/7/1997)	Process Control Monitor System and Method Cochinwala, Munir; Yu, Min Tae; Lee, K-C
08/933541	(9/19/1997)	METHOD OF USING TRANSIENT FAULTS TO VERIFY THE SECURITY OF A CRYPTOSYSTEM Dan Boneh; Richard A DeMillo; Richard J Lipton
09/006961	(1/14/1998)	Method and System for Dynamic Allocation of Bandwidth in Asynchronous Transfer Mode (ATM) Switching System Ott, Teunis J.
09/223466	(12/30/1998)	CELLULAR-FIXED CALL COMPLETION AND CALL TRANSFER SERVICE FROM A CELLULAR NETWORK PROVIDER Agrawal, Prathima; Ramanathan, Parameswaran
09/306154	(5/6/1999)	System and method for managing interactions between users in a browser based telecommunications network Paul England

Patent or Application no.	Issue Date (Filing Date)	Title of Patent or Application and Names of Inventors
09/420443	(10/18/1999)	Active techniques for video transmission and playback Agrawal, Prathima; Chen, Jyh-Cheng
09/458767	(12/10/1999)	Architecture For The Rapid Creation Of Telephony Services In A Next Generation Network Anjum, Farooq; Caruso, Francesco; Jain, Ravi; Missier, Paolo; Zordan, Adalberto
09/476465	(12/30/1999)	Multicarrier Personal Access Communication System Barton, Melbourne; Wong, Kouk-Shoong Daniel
09/476677	(12/30/1999)	Multicarrier Personal Access Communication System Barton, Melbourne; Wong, Kouk-Shoong Daniel
09/813491	(3/21/2001)	Combined adaptive spatio-temporal processing and multi-user detection for CDMA wireless systems Liberti, Joseph Charles; Moshavi, Shimon; Zablocky, Paul Gerald
10/002882	(11/02/2001)	Providing Secure, Instantaneous, Directory-Integrated, Multiparty, Communications Services Chung, Chit; Dalal, Siddhartha; Crescenzo, Giovanni Di; Graveman, Richard; Long, Michael; Patton, Gardner; Shim, Hyong Sop
10/036032	(10/26/2001)	Hierarchical level-based internet protocol multicasting Melbourne Barton; John Lee; Matthew Cheng
10/062700	(1/31/2002)	Auto-discovery of network configuration Arturo Cisneros; Richard C. Lau; Frank C.D. Tsai
10/694199	(10/24/2003)	Integrated mobility management Henning Schulzrinne; Anthony Mcauley; Ravi Jain; James Burns; Ken Young; Ashutosh Dutta; Kuok-Shoong Wong
10/766408	(01/27/2004)	AIN Enabled Automated Directory Assistance In A Telecommunications Network Weidmark, Wilfred; Berkowitz, Renee
11/341227	(1/26/2006)	Payment system for the distribution of digital content using an intelligent services control point Benjamin W. Falchuk; David J. Marples
4846931 (07/174,852)	7/11/1989 (3/29/1988)	Method for lifting-off epitaxial films Gmitter, Thomas J.; Yablonovitch, Eli
4866701 (07/240,745)	9/12/1989 (9/2/1988)	Packet switch with dynamic allocation of inputs Giacopelli, James N.; Sincoskie, Walter D.
4874963 (07/155,150)	10/17/1989 (2/11/1988)	Neuromorphic Learning Networks Allen, Robert Burnell ;Alspector, Joshua
4883561 (07/279,217)	11/28/1989 (12/5/1988)	Lift-off and subsequent bonding of epitaxial films Gmitter, Thomas J.; Yablonovitch, Eli
4885186 (07/291,630)	12/5/1989 (12/29/1988)	Method for preparation of silicate glasses of controlled index of refraction Bagley, Brian G.; Quinn, William E.

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4891694 (07/274,303)	1/2/1990 (11/21/1988)	Fiber optic cable television distribution system Way, Winston I.
4893304 (07/240,748)	1/9/1990 (9/2/1988)	Broadband packet switch with combined queuing Giacopelli, James N.; Littlewood, Morgan
4904041 (07/287,395)	2/27/1990 (12/20/1988)	Short optical pulse generator having a looped directional coupler external cavity Izadpanah, Hossein
4906064 (07/292,021)	3/6/1990 (12/30/1988)	Switch for selectively switching optical wavelengths Cheung, Kwok-Wai
4910730 (07/167,790)	3/20/1990 (3/14/1988)	Batcher-banyan network Day, Jr., Chester M.; Giacopelli, James N.
4930152 (07/238,738)	5/29/1990 (08/31/1988)	Call Return Telephone Service Miller, Patrick A.
4935688 (07/322,730)	6/19/1990 (3/13/1989)	Electrical storage cell life extender Mistry, Keku M.; O'Sullivan, Thomas D.
5006906 (07/237,087)	4/9/1991 (8/29/1988)	Integrated semiconductor waveguide/photodetector Deri, Robert J.
5010588 (07/318,844)	4/23/1991 (3/6/1989)	Ultrawide-bandwidth low-noise optical receiver Gimlett, James L.
5023811 (07/535,991)	6/11/1991 (6/11/1990)	Method and apparatus for selectively processing paginated output Donnelly, Kim F.; Gluck, Kurt A.
5041967 (07/108,208)	8/20/1991 (10/13/1987)	Methods And Apparatus For Dynamic Menu Generation In A Menu Driven Computer System Ephrath, Arye R.; Gibbons, Patrick M.; Halpin, Constance A.; Smith, Mary A.; Wolberg, Michelle S.
5043980 (07/432,921)	8/27/1991 (11/7/1989)	Switching cell for packet switching network Day, Jr., Chester M.; Giacopelli, James N.
5050075 (07/253,240)	9/17/1991 (10/4/1988)	High performance VLSI data filter Herman, Gary E.; Lee, Kuo-Chu; Matoba, Takako
5060143 (07/230,483)	10/22/1991 (8/10/1988)	System for string searching including parallel comparison of candidate data block-by-block Lee, Kuo-Chu
5113275 (07/725,340)	5/12/1992 (7/3/1991)	Temperature Compensation Of Liquid-Crystal Etalon Filters Patel, Jayantilal S.; Wullert, II, John R.
5287499 (07/702,444)	2/15/1994 (5/16/1991)	Methods and Apparatus for Information Storage and Retrieval Utilizing a Method of Hashing and Different Collision Avoidance Schemes Depending Upon Clustering in the Hash Table Nemes, Richard M.
5412256 (08/178,428)	5/2/1995 (1/6/1994)	Neuron for Use in Self-learning Neural Network Alspector, Joshua and Jayakumar, Anthony

Patent or Application no.	Issue Date (Filing Date)	Title of Patent or Application and Names of Inventors
60/008821	(12/18/1995)	Flat virtual display for telepresence and virtual reality Smoot, Lanny Starkes
60/009642	(01/11/1996)	System And Method For Processing International Telephone Numbers Lee, Linda W.
60/010915	(1/31/1996)	Method and system for video delivery using pyramid broadcasting Subrama R. Viswanathan
60/011625	(02/14/1996)	Method For Providing Call Identity Delivery On Call Waiting For Telephone Services Mowafy, Hala E.
60/016491	(04/30/1996)	Integrated Telecommunication System Architecture For Wireless And Wireline Access Featuring PACS Radio Technology Greaney, Shaun J.; Leland, Kenneth W.
60/017289	(5/13/1996)	Method and System for Copy Protection of On-screen Display of Text Lesk, Michael E.
60/017908	(5/6/1996)	Bundled Protection Switching Manchester, James S.
60/018308	(5/24/1996)	Overload control and process scheduling in network databases Donald Smith
60/018337	(5/24/1996)	Ensuring robust call throughout and fairness for SXP overload controls Donald Smith
60/018765	(05/31/1996)	Method And System For Providing Local Telephone Number Portability Using Geographic Unit Building Blocks Alfieri, James Daniel; Krall, III, William Henry
60/019999	(06/21/1996)	System And Methods For Highly Available Directory Services To Distributed Computing Environment Elnozahy, Elmootazbellah Nabil
60/020554	(06/26/1996)	Apparatus And Methods For Managing Communications Between Network Points When An AIN Trigger Is Encountered Lin, Fuchun Joe
60/023954	8/16/1996	Accelerating Public-Key Cryptography by Precomputing Randomly Generated Pairs Ramaratham Venkatesan; Victor Boyko
60/023960	(8/16/1996)	Pseudo-Random Generator Ramarathnam Venkatesan
60/025316	(9/11/1996)	SYSTEM AND METHOD FOR RESTORING ATM NETWORKS Hsing, Deh-phone K.
60/035220	(1/8/1997)	Fast and Secure Encryption Ramarathnam Venkatesan
60/035222	(1/8/1997)	New Constructions for Secure hash Functions Ramaratham Venkatesan

Patent or Application no.	Issue Date (Filing Date)	Title of Patent or Application and Names of Inventors
60/035782	(1/7/1997)	InP-Based Heterojunction Bipolar Transistor with Reduced Base-Collector Capacitance Bhat, Rajaram
60/044143	(4/22/1997)	INTERNET TELEPHONY ROUTING SERVICES Darek A. Symk
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