

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Telcordia Licensing Company LLC	01/28/2010
RECEIVING PARTY DATA	
Name:	TTI Inventions C LLC
Street Address:	2711 Centerville Road
Internal Address:	Suite 400
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19808
PROPERTY NUMBERS Total: 4	
Property Type	Number
Patent Number:	6216005
Patent Number:	6216128
Patent Number:	6226640
Patent Number:	6301664
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Total Attachments: 8

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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 C 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whether or not expressly listed as Patents below and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;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

(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).

assignor represents, warrants and covenants that:

(1) Assignor has the full power and authority, and has obtained all third party consents, approvals and/or other authorizations required to enter into this Agreement and to carry out its obligations hereunder, including the assignment of the Patent Rights to Assignee; and

(2) Assignor owns, and by this document assigns to Assignee, all right, title, and interest to the Patent Rights, including, without limitation, all right, title, and interest to sue for infringement of the Patent Rights. Assignor has obtained and properly recorded previously executed assignments for the Patent Rights as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction. The Patent Rights are free and clear of all liens, claims, mortgages, security interests or other encumbrances, and restrictions. There are no actions, suits, investigations, claims or proceedings threatened, pending or in progress relating in any way to the Patent Rights. There are no existing contracts, agreements, options, commitments, proposals, bids, offers, or rights with, to, or in any person to acquire any of the Patent Rights.

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.

Patent or application no.	Country	Filing Date	Title of Patent and Inventors
5,241,395 (07/859,614)	US	8/31/1993 (3/23/1992)	Adaptive transform coding using variable block size Chen, Cheng-Tie
5,283,829 (07/955,087)	US	2/1/1994 (10/1/1992)	System and method for paying bills electronically Anderson, Milton M.
5,299,263 (08/026,673)	US	3/29/1994 (3/4/1993)	Two-way public key authentication and key agreement for low-cost terminals Beller, Michael J.; Yacobi, Yacov
5,406,628 (08/101,437)	US	4/11/1995 (8/2/1993)	Public key authentication and key agreement for low-cost terminals Beller, Michael J.; Yacobi, Yacov
CA2157011 (CA2157011)	CA	3/30/1999 (2/25/1994)	Method for Two-Way Public Key Authentication and Key Agreement for Low-Cost Terminals Beller, Michael J.; Yacobi, Yacov

DE69426416 (DE69426416.4)	DE	12/13/2000 (2/25/1994)	TWO-WAY PUBLIC KEY AUTHENTICATION AND KEY AGREEMENT FOR LOW-COST TERMINALS BELLER MICHAEL JONATHAN; YACOBI YACOV
FR0691055 (FR94909772.9)	FR	12/13/2000 (2/25/1994)	TWO-WAY PUBLIC KEY AUTHENTICATION AND KEY AGREEMENT FOR LOW-COST TERMINALS BELLER MICHAEL JONATHAN; YACOBI YACOV
5,511,121 (08/303,048)	US	4/23/1996 (9/8/1994)	Efficient electronic money Yacobi, Yacov
CA2182173 (CA2182173)	CA	1/23/2001 (2/17/1995)	Efficient electronic money Yacobi, Yacov
5,613,032 (08/300,824)	US	3/18/1997 (9/2/1994)	System and method for recording, playing back and searching multimedia events wherein video, audio and text can be searched and retrieved Cruz, Gil C.; Rohall, Steven L.; Rosenberg, Jonathan; Smoot, Lanny S.
CA2198699 (CA2198699)	CA	10/12/1999 (8/7/1995)	SYSTEM AND METHOD FOR RECORDING AND PLAYING BACK MULTIMEDIA EVENTS CRUZ GIL CARAPELHO; ROHALL STEVEN LEE; ROSENBERG JONATHAN; SMOOT LANNY STARKES
JP3143125 (JP08-509490)	JP	12/22/2000 (8/7/1995)	SYSTEM AND METHOD FOR RECORDING AND PLAYING BACK MULTIMEDIA EVENTS CRUZ GIL CARAPELHO; ROHALL STEVEN LEE; ROSENBERG JONATHAN; SMOOT LANNY STARKES
5,614,927 (08/490,001)	US	3/25/1997 (8/12/1995)	Protecting confidential information in a database for enabling targeted advertising in a communications network Gifford, Warren S.; Griffeth, Nancy D.; Katz, James E.
JP3270483 (JP09-503202)	JP	1/18/2002 (8/10/1996)	PROTECTING CONFIDENTIAL INFORMATION IN A DATABASE FOR ENABLING TARGETED ADVERTISING IN A COMMUNICATIONS NETWORK GIFFORD WARREN STANTON; GRIFFETH NANCY DAVIS; KATZ JAMES EVERETT
CA2224457 (CA2224457)	CA	5/15/2001 (8/10/1996)	PROTECTING CONFIDENTIAL INFORMATION IN A DATABASE FOR ENABLING TARGETED ADVERTISING IN A COMMUNICATIONS NETWORK GIFFORD WARREN STANTON; GRIFFETH NANCY DAVIS; KATZ JAMES EVERETT

5,638,446 (08/520,351)	US	6/10/1997 (8/28/1995)	Method for the secure distribution of electronic files in a distributed environment Rubin, Aviel D.
5,764,277 (08/555,370)	US	6/9/1998 (11/8/1995)	Group-of-block based video signal combining for multipoint continuous presence video conferencing Loui, Alexander C. P.; Sun, Ming-Ting; Chen, Ting-Chung
5,796,424 (08/741,584)	US	8/18/1998 (11/1/1996)	System and method for providing videoconferencing services Ely, Thomas Chambers; Smyk, Darek Andrew
5,809,140 (08/729,917)	US	9/15/1998 (10/15/1996)	Session key distribution using smart cards Rubin, Aviel D.; Shoup, Victor J.
5,946,582 (08/873,408)	US	8/31/1999 (6/12/1997)	Method of making an InP-based heterojunction bipolar transistor with reduced base-collector capacitance Bhat, Rajaram
6,285,044 (09/291,499)	US	9/4/2001 (4/14/1999)	InP-based heterojunction bipolar transistor with reduced base-collector capacitance Bhat, Rajaram
6,009,326 (08/557,921)	US	12/28/1999 (11/14/1995)	Anchor radio system based handover Roder, Paul William; Ulerma, Mehmet
6,144,991 (09/026,476)	US	11/7/2000 (2/19/1998)	System and method for managing interactions between users in a browser-based telecommunications network England, Paul
6,208,864 (09/223,464)	US	3/27/2001 (12/30/1998)	Establishing calls and processing on-going calls in fixed and cellular networks Agrawal, Prathima; Ramanathan, Parameswaran
CA2354078 (CA2354078)	CA	3/7/2006 (12/21/1999)	ESTABLISHING CALLS AND PROCESSING ON-GOING CALLS IN FIXED AND CELLULAR NETWORKS AGRAWAL PRATHIMA; RAMANATHAN PARAMESWARAN
JP3964620 (JP2000-593039)	JP	6/1/2007 (12/21/1999)	ESTABLISHING CALLS AND PROCESSING ON-GOING CALLS IN FIXED AND CELLULAR NETWORKS AGRAWAL PRATHIMA; RAMANATHAN PARAMESWARAN
6,211,654 (09/611,182)	US	4/3/2001 (7/6/2000)	Method for predicting battery capacity O'Sullivan, Thomas D.

6,216,005 (09/223,290)	US	4/10/2001 (12/30/1998)	Cellular-fixed call completion and call transfer service from a cellular network provider Agrawal, Prathima; Ramanathan, Parameswaran
CA2353898 (CA2353898)	CA	5/22/2007 (12/21/1999)	CELLULAR-FIXED CALL COMPLETION AND CALL TRANSFER SERVICE FROM A CELLULAR NETWORK PROVIDER AGRAWAL PRATHIMA; RAMANATHAN PARAMESWARAN
6,216,128 (09/260,110)	US	4/10/2001 (3/2/1999)	System and method for private information retrieval from a single electronic storage device using commodities Di-Crescenzo, Giovanni; Ishal, Yuval; Ostrovsky, Rafail
CA2363734 (CA2363734)	CA	9/7/2004 (3/1/2000)	Method and system for private information retrieval using commodities Di-Crescenzo, Giovanni; Ishal, Yuval; Ostrovsky, Rafail
6,438,554 (09/686,262)	US	8/20/2002 (10/11/2000)	System and method for private information retrieval from a single electronic storage device using verifiable commodities Di-Crescenzo, Giovanni; Ishal, Yuval; Ostrovsky, Rafail
6,226,640 (09/193,207)	US	5/1/2001 (11/17/1998)	Method for determining approximate hamming distance and approximate nearest neighbors of a query Ostrovsky, Rafail; Rabani, Yuval
CA2310321 (CA2310321)	CA	11/16/2004 (11/17/1998)	Method and system for determining approximate hamming distance and approximate nearest neighbors in an electronic storage device Ostrovsky, Rafail; Rabani, Yuval
6,301,864 (09/195,491)	US	10/9/2001 (11/18/1998)	Method and system for non-malleable and non-interactive cryptographic commitment in a network Di-Crescenzo, Giovanni; Ishal, Yuval; Ostrovsky, Rafail
6,570,926 (09/420,097)	US	5/27/2003 (10/18/1999)	Active techniques for video transmission and playback Agrawal, Prathima; Chen, Jyh-Cheng
6,480,537 (09/420,401)	US	11/12/2002 (10/18/1999)	Active techniques for video transmission and playback Agrawal, Prathima; Chen, Jyh-Cheng; Famolari, David
6,487,406 (09/545,619)	US	11/26/2002 (4/10/2000)	PCS-to-mobile IP Internetworking Chang, Li-Fung; Varma, Vijay K.
TW183532 (TW089110383)	TW	8/11/2003 (5/29/2000)	PCS-to-mobile IP internetworking Chang, Li-Fung; Varma, Vijay K.

CA2310783 (CA2310783)	CA	2/3/2004 (6/6/2000)	PCS-to-mobile IP internetworking Chang, Li-Fung; Varna, Vijay K.
6,813,358 (09/441,740)	US	11/2/2004 (11/17/1999)	Method and system for timed-release cryptosystems Di Crescenzo, Giovanni; Ostrovsky, Rafail; Rajagopalan, Sivaramakris
6,873,258 (10/119,566)	US	3/29/2005 (4/10/2002)	Location aware services Infrastructure Marples, David; Brightman, Christopher; Famolari, David
6,965,673 (09/516,910)	US	11/15/2005 (3/1/2000)	Method of using transient faults to verify the security of a cryptosystem Boneh, Dan; Lipton, Richard; DeMillo, Richard A.
7,072,664 (10/756,629)	US	7/4/2006 (1/13/2004)	Estimating non-uniform spatial offered loads in a cellular wireless network Luss, Hanan; Ranade, Ashok
7,103,360 (10/045,346)	US	9/5/2006 (10/23/2001)	Switching telephone calls between wireline and cellular telephones Agrawal, Prathima; Ramanathan, Parameswaran
5,960,178 (08/907,445)	US	9/28/1999 (8/8/1997)	QUEUE SYSTEM AND METHOD FOR POINT-TO-POINT MESSAGE PASSING HAVING A SEPARATE TABLE FOR STORING MESSAGE STATE AND IDENTIFIER OF PROCESSOR ASSIGNED TO PROCESS THE MESSAGE Cochinwala, Munir; Lee, Kuo-Chu
7,152,065 (10/427,595)	US	12/19/2006 (5/1/2003)	Information retrieval and text mining using distributed latent semantic indexing Behrens, Clifford A.; Bassu, Devasis
CA2523128	CA	4/23/2004	Information retrieval and text mining using distributed latent semantic indexing Behrens, Clifford A.; Bassu, Devasis
EP04750497.2	EP	4/23/2004	Information retrieval and text mining using distributed latent semantic indexing Behrens, Clifford A.; Bassu, Devasi
JP2006-513228	JP	4/23/2004	Information retrieval and text mining using distributed latent semantic indexing Behrens, Clifford A.; Bassu, Devasi
TWI242730 (TW093112343)	TW	11/1/2005 (4/30/2004)	Information retrieval and text mining using distributed latent semantic indexing

			Behrens, Clifford A.; Bassu, Devasi
7,359,730 (11/118,673)	US	4/15/2008 (4/29/2005)	Method and apparatus for reducing interference associated with wireless communication Dennis, Gary J.; Cohen, Steven M.; Dixon, James L.
11/592,868	US	11/3/2006	System and method for generating consumer relational marketing information in a system for the distribution of digital content Chris Drake; David Marples; Stanley Moyer
CA2628500	CA	11/3/2006	SYSTEM AND METHOD FOR GENERATING CONSUMER RELATIONAL MARKETING INFORMATION IN A SYSTEM FOR THE DISTRIBUTION OF DIGITAL CONTENT David Marples; Stanley Moyer; Chris Drake
EP06827578.3	EP	11/3/2006	SYSTEM AND METHOD FOR GENERATING CONSUMER RELATIONAL MARKETING INFORMATION IN A SYSTEM FOR THE DISTRIBUTION OF DIGITAL CONTENT David Marples; Stanley Moyer; Chris Drake
6,708,036 (09/884,649)	US	3/16/2004 (6/19/2001)	Methods and systems for adjusting sectors across coverage cells Proctor, Paul; Zablocky, Paul G.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Princeton on January 28, 2010.

ASSIGNOR:

Telcordia Licensing Company, LLC

By: Ellen Brown
Name: Ellen Brown
Title: Manager
(Signature MUST be notarized)

STATE OF New Jersey)
) ss.
COUNTY OF Middlesex)

of New Jersey On January 28, 2010, before me, Philip J Faig *an Attorney of the State*, Notary Public in and ~~for said State~~, personally appeared Ellen Braun, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *Philip J Faig*

(Seal)