

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TORSAL TECHNOLOGY GROUP LTD. LLC	11/03/2010
RECEIVING PARTY DATA	
Name:	CDC PROPRIETE INTELLECTUELLE
Street Address:	72 AVENUE PIERRE MENDES FRANCE
City:	PARIS
State/Country:	FRANCE
Postal Code:	75013
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	5666647
CORRESPONDENCE DATA	
Fax Number:	2028611783
Phone:	202-861-1500
Email:	patents@bakerlaw.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	BAKER & HOSTETLER LLP
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Address Line 2:	1050 CONNECTICUT AVE, N.W.
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20036-5304
NAME OF SUBMITTER:	Eric M. Shelton
Total Attachments: 49 source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif source=assignment#page4.tif source=assignment#page5.tif	

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CONFIRMATORY ASSIGNMENT AND ASSUMPTION AGREEMENT

THIS CONFIRMATORY ASSIGNMENT AND ASSUMPTION AGREEMENT, EFFECTIVE as of November 3rd, 2010 (this "Confirmatory Assignment"), is by and between Torsal Technology Group Ltd. LLC, a limited liability company organized under the laws of the state of Delaware ("Torsal") and CDC Propriété Intellectuelle, a French *société anonyme* having its registered office at 72 avenue Pierre Mendes France, 75013 Paris, France ("Distributée").

INTRODUCTION

Pursuant to an agreement dated November 3rd, 2010, by and between Torsal and Distributée, Torsal assigned all the Torsal Portfolio to Distributée (the "Assignment Agreement").

In order to proceed with the recordal of the Assignment in the relevant patent registers and for confidentiality purposes, the parties hereto agree to confirm the undertakings stipulated under the Assignment Agreement, whilst keeping confidential all provisions relating to the price.

Therefore, this Confirmatory Assignment reiterates the substantial terms and conditions of the Assignment Agreement by reproducing all of its provisions, except for those confidential provisions relating to the price.

THE ASSIGNMENT AND ASSUMPTION AGREEMENT, EFFECTIVE as of November 3rd, 2010 (this "Assignment Agreement"), is by and between Torsal Technology Group Ltd. LLC, a limited liability company organized under the laws of the state of Delaware ("Torsal") and CDC Propriété Intellectuelle, a French *société anonyme* having its registered office at 72 avenue Pierre Mendes France, 75013 Paris, France ("Distributée").

RECITALS

WHEREAS, Torsal has been formed as a limited liability company under the Delaware Limited Liability Company Act (6 Del. C. §18-101, *et seq.*) pursuant to the filing of a Certificate of Formation dated as of December 18, 2007 and an Operating Agreement of Torsal dated as of December 18, 2007, and as amended and restated May 26, 2010, and as further amended and restated November 3rd, 2010;

WHEREAS, Distributée, by an Addendum effective as of September 24, 2010, joined as a party to the Membership Interest Sale Agreement, effective as of August 31, 2010, by and between SAT I.P. Holdings LLC and Thales Alenia Space France (the "MISA") providing for the sale of 100% of the membership interest in Torsal, which holds a portfolio of patents previously acquired from Motorola Inc.;

WHEREAS, Distributée is the sole member of Torsal;

WHEREAS, Torsal has resolved to distribute to the Distributée all of the patents and patent applications it holds, as set forth on Schedule A hereto, (including all rights in such provided by international conventions and treaties, all related divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, and extensions thereof, any counterparts (foreign or otherwise) claiming priority therefrom, filed or unfiled, and like statutory rights in whatsoever country, with all rights, title and interest therein and subject to all liabilities associated therewith) (the "Torsal Portfolio"), constituting all of the assets of the Company;



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WHEREAS, Torsal has resolved to execute the Assignment Agreement to effect the transfer of the Torsal Portfolio to the Distributee;

WHEREAS, Torsal desires to assign, transfer and convey to Distributee the Torsal Portfolio; and

WHEREAS, Distributee desires to accept such assignment and to assume the obligations and liabilities of Torsal with respect to the Torsal Portfolio transferred to him.

NOW THEREFORE, in consideration of the respective covenants and agreements contained in this Assignment Agreement, the parties hereby agree as follows:

1. Distribution. Subject to and in accordance with the terms and conditions of this Assignment Agreement, Torsal does hereby irrevocably assign, transfer, convey and distribute all of Torsal's right, title and interest in and to any and all of its rights in and to the Torsal Portfolio (the "distribution") to Distributee, including (i) all of Seller's rights to sue or recover for the past, present and future infringement of all intellectual property rights contained thereof, (ii) all rights and obligations attached to the Torsal Portfolio pursuant to the MISA, including in particular the representations and warranties of Motorola with respect to the patents and applications contained in the Torsal Portfolio, and (iii) all the Assigned Patent Rights and the Torsal Patents as defined in the MISA. Distributee hereby accepts such distribution in kind for good and valuable consideration, assumes all obligations of Torsal with respect to the Torsal Portfolio so distributed, and agrees to be bound by all of the covenants, terms and conditions of and to undertake all of the obligations of Torsal with respect to the distribution.

2. Further Assurances. Torsal shall, when requested by Distributee, execute all rightful oaths, assignments, and powers of attorney, and all other papers necessary and proper to carry out the intent and purpose of this Assignment Agreement, including short form assignment agreement(s) for the purpose of recording the assignments effected by this Assignment Agreement in the relevant patent offices or other governmental offices with competent jurisdiction over patent rights.

3. Representation. Except for those liens, claims, releases, licenses, covenants not to sue, restrictions upon transfer, voting options, charges, security interests or other encumbrances expressly disclosed in the MISA, Torsal owns the Torsal Portfolio distributed hereby free and clear of any lien, claim, release, license, covenant not to sue, restriction upon transfer, voting option, charge, security interests or other encumbrances.

4. Governing Law. This Assignment Agreement shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflict of laws principles.

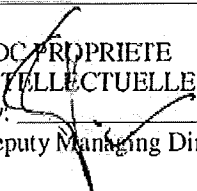
5. Counterparts. This Assignment Agreement may be executed in any number of counterparts, each of which shall for all purposes be deemed to be an original, and all of which together shall constitute but one and the same instrument.



IN WITNESS WHEREOF, the parties hereto have caused this Assignment Agreement to be duly executed as of the date and year first above written.

DISTRIBUTE

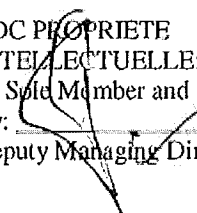
CDC PROPRIETE
INTELLECTUELLE:

By: 
Deputy Managing Director

TORSAL. TECHNOLOGY GROUP LTD.
LLC:
a Delaware limited liability company

CDC PROPRIETE
INTELLECTUELLE:

Its Sole Member and Manager

By: 
Deputy Managing Director

I, Patrick TERROIR, Deputy Managing Director of CDC Propriété Intellectuelle, acting directly in this capacity and also as executive of the sole member of Torsal Technology Group Ltd., LLC, hereby certifies that the Confirmatory Assignment and Assumption Agreement between Torsal Technology Group Ltd., LLC and CDC Propriété Intellectuelle has been duly executed as of November 3rd, 2010.

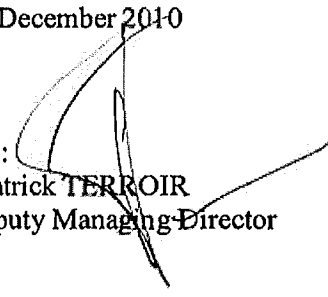
Place : Paris

Date : 15 December 2010

Signature :

Name : Patrick TERROIR

Title : Deputy Managing Director



**SCHEDULE A
TORSAL PATENTS**

Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44183	Canada	2022854	2022854	8-Aug-90	Inactive	Lapsed		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Germany	69027501.3	90310760.5	2-Oct-90	Granted		19-Jun-96	MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	European Patent Convention	421722	90310760.5	2-Oct-90	Inactive	Validated		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	France	421722	90310760.5	2-Oct-90	Granted		19-Jun-96	MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Great Britain	421722	90310760.5	2-Oct-90	Inactive	Abandoned		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Italy	421722	90310760.5	2-Oct-90	Inactive	Lapsed	19-Jun-96	MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Japan	2611528	02-263269	2-Oct-90	Inactive	Abandoned		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Luxembourg	421722	90310760.5	2-Oct-90	Inactive	Abandoned		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Russian Federation		4831347/09	1-Oct-90	Inactive	Abandoned		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	Ukraine	93003196	93003196	19-Aug-93	Inactive	Abandoned		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	United States		07/415814	2-Oct-89	Inactive	Abandoned		Multiple beam deployable space antenna system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44183	United States	5017925	07/596523	10-Oct-90	Inactive	Expired		MULTIPLE BEAM DEPLOYABLE SPACE ANTENNA SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44195	United States	5095538	07/414494	29-Sep-89	Inactive	Expired		Calibrated method and device for narrow band Doppler compensation	Durboraw III, Isaac Newton
44196	Austria	467651	91306462.2	16-Jul-91	Inactive	Lapsed		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Belgium	467651	91306462.2	16-Jul-91	Inactive	Lapsed		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Canada	2044452	2044452	12-Jun-91	Granted		15-May-01	POSITION AIDED SUBSCRIBER UNIT FOR A SATELLITE CELLULAR SYSTEM	Durboraw III, Isaac Newton
44196	Switzerland	467651	91306462.2	16-Jul-91	Inactive	Lapsed		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Germany	69104924	91306462.2	16-Jul-91	Granted		8-Dec-94	Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Denmark	467651	91306462.2	16-Jul-91	Inactive	Abandoned		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	European Patent Convention	467651	91306462.2	16-Jul-91	Inactive	Validated		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Spain	467651	91306462.2	16-Jul-91	Inactive	Abandoned		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	France	467651	91306462.2	16-Jul-91	Granted		2-Nov-94	Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Great Britain	467651	91306462.2	16-Jul-91	Granted		2-Nov-94	Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Greece	467651	91306462.2	16-Jul-91	Inactive	Abandoned		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Hong Kong	970259	97000093	16-Jul-91	Inactive	Lapsed		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Italy	467651	91306462.2	16-Jul-91	Granted		2-Nov-94	Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Japan		03-198238	15-Jul-91	Inactive	Abandoned		LOCATION SUPPORT SUBSCRIBER APPARATUS FOR SATELLITE COMMUNICATION SYSTEM	Durboraw III, Isaac Newton
44196	Liechtenstein	467651	91306462.2	16-Jul-91	Inactive	Abandoned		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Luxembourg	467651	91306462.2	16-Jul-91	Inactive	Abandoned		Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Netherlands	467651	91306462.2	16-Jul-91	Granted		2-Nov-94	Satellite-based cellular communication system with position aided subscriber unit	Durboraw III, Isaac Newton
44196	Russian Federation	2090002	5001047/09	18-Jul-91	Granted		10-Sep-97	SUBSCRIBER'S DEVICE FOR COMMUNICATION WITH SATELLITE COMMUNICATIONS SYSTEM	Durboraw III, Isaac Newton
44196	Sweden	467651	91306462.2	16-Jul-91	Granted		2-Nov-94	Satellite-based cellular communication system with position aided subscriber unit.	Durboraw III, Isaac Newton



**SCHEDULE A
TORSAL PATENTS**

Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44196	Ukraine		93003478	18-Jul-91	Inactive	Abandoned		SUBSCRIBER'S DEVICE FOR COMMUNICATION WITH SATELLITE COMMUNICATIONS SYSTEM	Durboraw III, Isaac Newton
44196	Ukraine	27279	93003473	28-Oct-93	Inactive	Abandoned		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44196	United States	5119504	07/554657	19-Jul-90	Granted		2-Jun-92	Position aided subscriber unit for a satellite cellular system	Durboraw III, Isaac Newton
44217	Austria	421698	90310713.4	1-Oct-90	Inactive	Lapsed		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Belgium	421698	90310713.4	1-Oct-90	Inactive	Lapsed		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Canada	2022277	2022277	30-Jul-90	Inactive	Abandoned		Method of Predicting Cell-To-Cell Hand-Offs for a Satellite Cellular Communications System	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Switzerland	421698	90310713.4	1-Oct-90	Inactive	Lapsed		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Germany	69028590.6	90310713.4	1-Oct-90	Granted		18-Sep-96	Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Denmark	421698	90310713.4	1-Oct-90	Inactive	Abandoned		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44217	European Patent Convention	421698	90310713.4	1-Oct-90	Inactive	Validated		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Spain	421698	90310713.4	1-Oct-90	Inactive	Abandoned		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	France	471698	90310713.4	1-Oct-90	Granted		18-Sep-96	METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Great Britain	421698	90310713.4	1-Oct-90	Granted		18-Sep-96	METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Greece	421698	90310713.4	1-Oct-90	Inactive	Abandoned		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Hong Kong	1007845	98106864.3	26-Jun-98	Inactive	Abandoned		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44217	Italy	421698	90310713.4	1-Oct-90	Granted		18-Sep-96	METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Japan	2606479	02-263271	2-Oct-90	Inactive	Abandoned		METHOD FOR PREDICTION OF CELL-TO-CELL COMMUNICATION IN SATELLITE CELLULAR COMMUNICATION NETWORK	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44217	Liechtenstein	421698	90310713.4	1-Oct-90	Inactive	Lapsed		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Luxembourg	421698	90310713.4	1-Oct-90	Inactive	Abandoned		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Netherlands	421698	90310713.4	1-Oct-90	Inactive	Abandoned		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	Russian Federation		4831459/09	1-Oct-90	Inactive	Abandoned		METHOD FOR PREDICTION OF CELL-TO-CELL COMMUNICATION IN SATELLITE CELLULAR COMMUNICATION NETWORK	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44217	Sweden	421698	90310713.4	1-Oct-90	Inactive	Lapsed		METHOD OF PREDICTING CELL-TO-CELL HAND-OFFS FOR A SATELLITE CELLULAR COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Peterson, Kenneth Maynard; Leopold, Raymond Joseph
44217	United States	5161248	07/415815	2-Oct-89	Inactive	Expired		Method of predicting cell-to-cell hand-offs for a satellite cellular communications system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Austria	421704	90310723.3	1-Oct-90	Inactive	Lapsed		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Belgium	421704	90310723.3	1-Oct-90	Inactive	Lapsed		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Canada	2023611	2023611	20-Aug-90	Inactive	Abandoned		Telemetry, Tracking and Control for Satellite Cellular Communication Systems	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Switzerland	421704	90310723.3	1-Oct-90	Inactive	Lapsed		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard



**SCHEDULE A
TORSAL PATENTS**

Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44238	Germany	69021977.6	90310723.3	1-Oct-90	Granted		30-Aug-95	Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Denmark	421704	90310723.3	1-Oct-90	Inactive	Abandoned		Telemetry, tracking and control for satellite cellular communication systems	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	European Patent Convention	421704	90310723.3	1-Oct-90	Inactive	Validated		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Spain	421704	90310723.3	1-Oct-90	Inactive	Abandoned		Telemetry, tracking and control for satellite cellular communication systems	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	France	421704	90310723.3	1-Oct-90	Granted		30-Aug-95	Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Great Britain	421704	90310723.3	1-Oct-90	Granted		30-Aug-95	Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Greece	421704	90310723.3	1-Oct-90	Inactive	Abandoned		Telemetry, tracking and control for satellite cellular communication systems	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Italy	421704	90310723.3	1-Oct-90	Inactive	Lapsed	30-Aug-95	Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Japan	2611529	02-263270	2-Oct-90	Inactive	Abandoned		CONTROL SYSTEM FOR SATELLITE COMMUNICATION SYSTEM AND TELEMETERING, TRACKING, AND CONTROL COMMUNICATION SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Liechtenstein	421704	90310723.3	1-Oct-90	Inactive	Lapsed		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Luxembourg	421704	90310723.3	1-Oct-90	Inactive	Abandoned		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Netherlands	421704	90310723.3	1-Oct-90	Inactive	Abandoned		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Russian Federation		4831340/09	1-Oct-90	Inactive	Abandoned		CONTROL SYSTEM FOR SATELLITE COMMUNICATION SYSTEM AND TELEMETERING, TRACKING, AND CONTROL COMMUNICATION SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	Sweden	421704	90310723.3	1-Oct-90	Inactive	Abandoned		Telemetry, tracking and control for satellite cellular communication systems.	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44238	United States	5187805	07/415842	2-Oct-89	Inactive	Expired		Telemetry, tracking and control for satellite cellular communications systems	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44257	Ukraine		93004496	29-Oct-93	Inactive	Abandoned		CONTROL SYSTEM FOR SATELLITE COMMUNICATION SYSTEM AND TELEMETERING, TRACKING, AND CONTROL COMMUNICATION SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44258	Canada		2086081	22-Dec-92	Inactive	Abandoned		Satellite system cell management	Pullman, Michele A.; Peterson, Kenneth M.
44258	European Patent Convention		92311367.4	14-Dec-92	Inactive	Abandoned		Satellite system cell management	Pullman, Michele A.; Peterson, Kenneth M.
44258	Japan	3406629	04-353538	14-Dec-92	Granted		7-Mar-03	Satellite system cell management	Pullman, Michele A.; Peterson, Kenneth M.
44258	Russian Federation		92016252/09	22-Dec-92	Inactive	Abandoned		Satellite system cell management	Pullman, Michele A.; Peterson, Kenneth M.
44258	Ukraine		93003110	13-Sep-93	Inactive	Abandoned		Satellite system cell management	Pullman, Michele A.; Peterson, Kenneth M.
44258	United States	5227802	07/812389	23-Dec-91	Granted		13-Jul-93	Satellite system cell management	Pullman-Runnion, Michele A.; Peterson, Kenneth M.
44264	Belgium	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Canada	2089043	2089043	8-Feb-93	Granted		18-Dec-01	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Switzerland	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Germany	69331865.1	93102768.4	22-Feb-93	Granted		2-May-02	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Denmark	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	European Patent Convention	568778	93102768.4	22-Feb-93	Inactive	Validated		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Spain	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	France	568778	93102768.4	22-Feb-93	Granted		2-May-02	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Great Britain	568778	93102768.4	22-Feb-93	Granted		2-May-02	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry

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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44264	Greece	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Italy	568778	93102768.4	22-Feb-93	Granted		2-May-02	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Japan	3469269	05-087783	24-Mar-93	Granted		5-Sep-03	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Liechtenstein	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Netherlands	568778	93102768.4	22-Feb-93	Granted		2-May-02	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Portugal	568778	93102768.4	22-Feb-93	Inactive	Lapsed		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Russian Federation		93004638/09	24-Mar-93	Inactive	Abandoned		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Sweden	568778	93102768.4	22-Feb-93	Granted		2-May-02	CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44264	Ukraine	26517	93002862	8-Jun-93	Inactive	Abandoned		CALL PROCESSING USING LOGICAL CHANNEL ASSIGNMENTS	Pullman, Michele A.; Peterson, Kenneth M
44264	United States	5249181	07/857537	25-Mar-92	Granted		28-Sep-93	Call processing using logical channel assignments	Wang, Theresa Chen Yen; Moritz, Steven Harry
44283	European Patent Convention		92306479.4	15-Jul-92	Inactive	Abandoned		LOW BIT RATE VOCODER MEANS AND METHOD	Fette, Bruce A.; Jaskie, Cynthia A.
44283	Japan		04-208591	14-Jul-92	Inactive	Abandoned		MEANS AND METHOD FOR LOW BIT-RATE VOCODER	Fette, Bruce A.; Jaskie, Cynthia A.
44283	United States	5255339	07/732977	19-Jul-91	Granted		19-Oct-93	Low bit rate vocoder means and method	Fette, Bruce A.; Jaskie, Cynthia A.
44286	Austria	616437	94102758.3	24-Feb-94	Inactive	Lapsed		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Belgium	616437	94102758.3	24-Feb-94	Inactive	Lapsed		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Canada		2098259	11-Jun-93	Inactive	Abandoned		COMMUNICATION SYSTEM EMPLOYING SPECTRUM REUSE ON A SPHERICAL SURFACE	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Canada	2114709	2114709	1-Feb-94	Inactive	Abandoned		Communication System Employing Spectrum Reuse on a Spherical Surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Switzerland	616437	94102758.3	24-Feb-94	Inactive	Lapsed		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Germany	69425845	94102758.3	24-Feb-94	Inactive	Lapsed		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Denmark	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	European Patent Convention		93110160.4	25-Jun-93	Inactive	Abandoned		COMMUNICATION SYSTEM EMPLOYING SPECTRUM REUSE ON A SPHERICAL SURFACE	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	European Patent Convention	616437	94102758.3	24-Feb-94	Inactive	Validated		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Spain	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	France	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Great Britain	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Ireland	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Italy	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Japan		05-191743	5-Jul-93	Inactive	Abandoned		COMMUNICATION SYSTEM USING SPECTRAL REUSE ON SPHERICAL FACE	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Japan	3245498	06-065627	8-Mar-94	Granted		26-Oct-01	Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Liechtenstein	616437	94102758.3	24-Feb-94	Inactive	Lapsed		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Luxembourg	616437	94102758.3	24-Feb-94	Inactive	Lapsed		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Monaco	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Netherlands	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Russian Federation		93046320/09	6-Jul-93	Inactive	Abandoned		COMMUNICATION SYSTEM USING SPECTRUM ONTO SPHERICAL SURFACE	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Russian Federation		94007644/09	11-Mar-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	Sweden	616437	94102758.3	24-Feb-94	Inactive	Abandoned		Communication system employing spectrum reuse on a spherical surface	Jan, Yih Guang; Peterson, Kenneth Maynard
44286	United States	5268694	07/909487	6-Jul-92	Granted		7-Dec-93	Communication system employing spectrum reuse on a spherical surface	Jan, Yih G.; Peterson, Kenneth M.
44286	United States	5367304	08/031586	15-Mar-93	Granted		22-Nov-94	Communication system employing spectrum reuse on a spherical surface	Jan, Yih G.; Peterson, Kenneth M.
44334	United States	5293382	08/024032	1-Mar-93	Granted		8-Mar-94	Method for FDMA signal multiplexing and demultiplexing	Corson, Lansing M.; Burdge, Robert J.



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TORSAL PATENTS**

Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44335	Austria	543644	92310536.5	18-Nov-92	Inactive	Lapsed		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Belgium	543644	92310536.5	18-Nov-92	Inactive	Lapsed		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Canada		2077834	9-Sep-92	Inactive	Abandoned		COMMAND AUTHENTICATION PROCESS	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Switzerland	543644	92310536.5	18-Nov-92	Inactive	Lapsed		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Germany	69230661.7	92310536.5	18-Nov-92	Granted		9-Feb-00	Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Denmark	543644	92310536.5	18-Nov-92	Inactive	Abandoned		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	European Patent Convention	543644	92310536.5	18-Nov-92	Inactive	Validated		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Spain	543644	92310536.5	18-Nov-92	Inactive	Abandoned		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	France	543644	92310536.5	18-Nov-92	Granted		9-Feb-00	Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Great Britain	543644	92310536.5	18-Nov-92	Granted		9-Feb-00	Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Italy	543644	92310536.5	18-Nov-92	Inactive	Lapsed	9-Feb-00	Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Japan	3584048	04-333634	19-Nov-92	Granted		6-Aug-04	Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Liechtenstein	543644	92310536.5	18-Nov-92	Inactive	Lapsed		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Netherlands	543644	92310536.5	18-Nov-92	Inactive	Lapsed		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Portugal	543644	92310536.5	18-Nov-92	Inactive	Lapsed		Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Russian Federation	2137303	92004504/09	20-Nov-92	Granted		10-Sep-99	COMMAND AUTHENTICATION PROCESS	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Sweden	543644	92310536.5	18-Nov-92	Granted		12-Apr-95	Command authentication process between a master and a slave station encrypted messages	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	Ukraine		93003316	18-Jun-93	Inactive	Abandoned		COMMAND AUTHENTICATION PROCESS	Mihm Jr., Thomas J., Penny Jr., Robert E.
44335	United States	5293576	07/795610	21-Nov-91	Granted		8-Mar-94	Command authentication process	Mihm Jr., Thomas J., Penny Jr., Robert E.
44354	Canada	2073277	2073277	7-Jul-92	Granted		16-Sep-03	OPERATION INDICATIVE BACKGROUND NOISE IN A DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	Germany	69230683.8	92115262.5	7-Sep-92	Granted		16-Feb-00	OPERATION INDICATIVE BACKGROUND NOISE IN A DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	European Patent Convention	531918	92115262.5	7-Sep-92	Inactive	Validated		OPERATION INDICATIVE BACKGROUND NOISE IN A DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	France	531918	92115262.5	7-Sep-92	Granted		16-Feb-00	Operation indicative background noise in a digital receiver	Leopold, Raymond Joseph
44354	Great Britain	531918	92115262.5	7-Sep-92	Granted		16-Feb-00	Operation indicative background noise in a digital receiver	Leopold, Raymond Joseph
44354	Japan	3100476	04-268058	10-Sep-92	Granted		18-Aug-00	OPERATION INDICATIVE BACKGROUND NOISE IN A DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	Netherlands	531918	92115262.5	7-Sep-92	Granted		16-Feb-00	Operation indicative background noise in a digital receiver	Leopold, Raymond Joseph
44354	Russian Federation	2105412	5052373/09	7-Aug-92	Granted		20-Feb-98	DEVICE FOR GENERATING BACKGROUND NOISE AS FUNCTION INDICATOR IN DIGITAL RECEIVER, DIGITAL COMMUNICATION SYSTEM, AND METHOD FOR INFORMING OPERATOR IN DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	Sweden	531918	92115262.5	7-Sep-92	Granted		16-Feb-00	OPERATION INDICATIVE BACKGROUND NOISE IN A DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	Ukraine		93003361	28-Oct-93	Inactive	Abandoned		OPERATION INDICATIVE BACKGROUND NOISE IN A DIGITAL RECEIVER	Leopold, Raymond Joseph
44354	United States	5327457	07/759334	13-Sep-91	Granted		5 Jul-94	Operation indicative background noise in a digital receiver	Leopold, Raymond Joseph
44407	Belgium	562374	93103903.6	11-Mar-93	Inactive	Lapsed		Method of operating a home subscriber information manager	Wang, Theresa Chen Yan; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44407	Canada	2089116	2089116	9-Feb-93	Granted		1-Apr-03	CALL SETUP METHOD FOR USE WITH A NETWORK HAVING MOBILE END USERS	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	Germany	69392258.6	93103903.6	11-Mar-93	Granted		4-Sep-02	Method of operating a home subscriber information manager	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	European Patent Convention	562374	93103903.6	11-Mar-93	Inactive	Validated		Method of operating a home subscriber information manager	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	France	562374	93103903.6	11-Mar-93	Granted		4-Sep-02	METHOD OF OPERATING A HOME SUBSCRIBER INFORMATION MANAGER	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	Great Britain	562374	93103903.6	11-Mar-93	Granted		4-Sep-02	Method of operating a home subscriber information manager	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	Italy	562374	93103903.6	11-Mar-93	Granted		4-Sep-02	Method of operating a home subscriber information manager	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	Japan		05-087781	24-Mar-93	Inactive	Abandoned		CALL SETTING METHOD FOR USING IN NETWORK HAVING MOBILE END USER	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry
44407	Netherlands	562374	93103903.6	11-Mar-93	Granted		4-Sep-02	Method of operating a home subscriber information manager	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	Russian Federation		93004692/09	25-Mar-93	Inactive	Abandoned		CALL SETTING METHOD FOR USING IN NETWORK HAVING MOBILE END USER	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry
44407	Sweden	562374	93103903.6	11-Mar-93	Granted		4-Sep-02	METHOD OF OPERATING A HOME SUBSCRIBER INFORMATION MANAGER	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry; Diekelman Dennis Paul
44407	Ukraine	27319	93007916	15-Jun-93	Inactive	Abandoned		CALL SETTING METHOD FOR USING IN NETWORK HAVING MOBILE END USER	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry
44407	United States	5343512	07/859206	27-Mar-92	Granted		30-Aug-94	Call setup method for use with a network having mobile end users	Wang, Theresa Chen Yen; Leopold, Raymond Joseph; Moritz, Steven Harry
44420	Canada		2092743	26-Mar-93	Inactive	Abandoned		SIMULTANEOUS TDMA COMMUNICATION SYSTEM	Vatt, Gregory B.; Leopold, Raymond J.
44420	Germany	69331361.7	93105128.8	29-Mar-93	Granted		19-Dec-01	TDMA communications between satellites, with distance dependant transmission duration	Vatt, Gregory B.; Leopold, Raymond J.
44420	European Patent Convention	571740	93105128.8	29-Mar-93	Inactive	Validated		TDMA communications between satellites, with distance dependant transmission duration	Vatt, Gregory B.; Leopold, Raymond J.
44420	France	571740	93105128.8	29-Mar-93	Granted		19-Dec-01	TDMA communications between satellites, with distance dependant transmission duration	Vatt, Gregory B.; Leopold, Raymond J.
44420	Great Britain	571740	93105128.8	29-Mar-93	Granted		19-Dec-01	TDMA communications between satellites, with distance dependant transmission duration	Vatt, Gregory B.; Leopold, Raymond J.
44420	Japan		05-239221	19-May-93	Inactive	Abandoned		DATA COMMUNICATION METHOD, OPERATING METHOD OF COMMUNICATION NETWORK AND NODE OF COMMUNICATION NETWORK	Vatt, Gregory B.; Leopold, Raymond J.
44420	Russian Federation		93005342/09	25-May-93	Inactive	Abandoned		SIMULTANEOUS TDMA COMMUNICATION SYSTEM	Vatt, Gregory B.; Leopold, Raymond J.
44420	Ukraine		93003098	18-Jun-93	Inactive	Abandoned		SIMULTANEOUS TDMA COMMUNICATION SYSTEM	Vatt, Gregory B.; Leopold, Raymond J.
44420	United States	5363368	07/889001	26-May-92	Granted		8-Nov-94	Simultaneous TDMA communication system	Vatt, Gregory B.; Leopold, Raymond J.
44420	United States		08/019044	18-Feb-93	Inactive	Abandoned		SIMULTANEOUS TDMA COMMUNICATION SYSTEM	Vatt, Gregory B.; Leopold, Raymond J.
44420	United States		08/239944	9-May-94	Inactive	Abandoned		SIMULTANEOUS TDMA COMMUNICATION SYSTEM	Vatt, Gregory B.; Leopold, Raymond J.
44431	Canada	2079827	2079827	5-Oct-92	Granted		19-Aug-03	MOBILE UNIT TRACKING SYSTEM	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Switzerland	546758	92310970.6	1-Dec-92	Inactive	Lapsed		METHOD AND SYSTEM FOR TRACKING A MOBILE UNIT	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Germany	69229593.3	92310970.6	1-Dec-92	Granted		14-Jul-99	Method and system for tracking a mobile unit	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	European Patent Convention	546758	92310970.6	1-Dec-92	Inactive	Validated		Method and system for tracking a mobile unit	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	France	546758	92310970.6	1-Dec-92	Granted		14-Jul-99	Method and system for tracking a mobile unit	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Great Britain	546758	92310970.6	1-Dec-92	Granted		14-Jul-99	Method and system for tracking a mobile unit	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Japan	3245467	04-345531	1-Dec-92	Inactive	Lapsed		Mobile unit tracking system	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Luxembourg	546758	92310970.6	1-Dec-92	Inactive	Abandoned		Method and system for tracking a mobile unit	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Russian Federation		92004557/09	8-Dec-92	Inactive	Abandoned		METHOD FOR TRACING MOBILE OBJECT, MOBILE OBJECT AND SYSTEM FOR PROCESSING OF TRACING RESULTS	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	Sweden	546758	92310970.6	1-Dec-92	Inactive	Lapsed		Method and system for tracking a mobile unit	Wang, Theresa Chen Yen; Moritz, Steven Harry



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44431	Ukraine		93002946	15-Jun-93	Inactive	Abandoned		Mobile unit tracking system	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	United States		07/803835	9-Dec-91	Inactive	Abandoned		Mobile unit tracking system	Wang, Theresa Chen Yen; Moritz, Steven Harry
44431	United States	5365451	08/205753	4-Mar-94	Granted		15-Nov-94	Mobile unit tracking system	Wang, Theresa Chen Yen; Moritz, Steven Harry
44443	United States	5982913	08/043042	29-Mar-93	Granted		17-Jan-95	Method and apparatus for generating two phase-coherent signals with arbitrary frequency ratio	Carson, Lansing M.; Boman, Dean J.
44444	United States	5402490	07/937772	1-Sep-92	Granted		28-Mar-95	Process for improving public key authentication	Mihm, Jr. Thomas J.
44445	Argentina	250469	315248	23-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Austria	365885	89118458.2	5-Oct-89	Inactive	Lapsed		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Australia	628081	41693/89	22-Sep-89	Inactive	Lapsed		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Belgium	365885	89118458.2	5-Oct-89	Inactive	Lapsed		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Brazil	8905430	8905430	25-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Canada	1338020	1338020	13-Sep-89	Granted		30-Jan-96	SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Canada	1340967	617034	13-Sep-89	Granted		18-Apr-00	SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Bertiger, Barry Robert
44445	Switzerland	365885	89118458.2	5-Oct-89	Inactive	Lapsed		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Chile		1326-92	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	China P.R.	89108150.X	89108150.X	25-Oct-89	Inactive	Expired		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Colombia		311354	11-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	East Germany	288718	3339758	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Germany	68924234	89118458.2	5-Oct-89	Inactive	Lapsed		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Denmark	175503	19890005255	24-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Algeria	1369	165/89	28-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Egypt		19890000515	26-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	European Patent Convention	365885	89118458.2	5-Oct-89	Inactive	Validated		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Spain	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Finland	110221	894805	10-Oct-89	Inactive	Lapsed		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	France	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Great Britain	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Greece	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Hong Kong	113996	96001139	27-Jun-96	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Croatia	940222	940222	1-Apr-94	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Peterson, Kenneth Maynard
44445	Indonesia		213	6-Sep-91	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Israel	91529	91529	5-Sep-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	India	176556	790DEL89	6-Sep-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Italy	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Japan	2917322	01-278777	27-Oct-89	Inactive	Expired		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Korea South	10-0128414	10-1989-0015494	27-Oct-89	Inactive	Abandoned		SATELLITE CELLULAR TELECOMMUNICATION SYSTEM	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Luxembourg	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Morocco	21665	21917	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Peterson, Kenneth Maynard; Bertiger, Barry Robert; Leopold, Raymond Joseph
44445	Mexico	171758	17833	4-Oct-89	Inactive	Expired		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Malaysia	105611	8901430	17-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Nigeria	10695	263/89	24-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Barry Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard

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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44445	Netherlands	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Norway	177480	893601	8-Sep-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	New Zealand	231169	231169	26-Oct-89	Inactive	Expired		SATELLITE CELLULAR TELEPHONE COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	O.A.P.I.	9055	59671	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Philippines	1-1989-39231	39231	14-Sep-89	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Bertiger, Bary Robert
44445	Pakistan	131993	388/89	24-Sep-89	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Poland	167049	282055	27-Oct-89	Inactive	Abandoned		METHOD OF ESTABLISHING A CELLULAR TELEPHONY COMMUNICATION THROUGH COMMUNICATION SATELLITES	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Portugal	92102	92102	25-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Russian Federation		4742314/09	27-Oct-89	Inactive	Abandoned		SATELLITE CELLULAR SYSTEM FOR COMMUNICATION AMONG GROUND EXCHANGES	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Sweden	365885	89118458.2	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Singapore	9691510-3	9691510-3	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Slovenia	8912082	8912082	27-Oct-89	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Syria		4197	23-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Tangier	982	982	26-Oct-89	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE COMMUNICATIONS SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Thailand	6288	89010010	5-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Tunisia	16212	21917	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Peterson, Kenneth Maynard; Bertiger, Bary Robert; Leopold, Raymond Joseph
44445	Turkey	25340	49813/83	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Taiwan	39112	78106857	5-Sep-89	Inactive	Lapsed		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Ukraine		93003466	28-Oct-93	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Peterson, Kenneth Maynard
44445	United States		07/263849	28-Oct-88	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	United States		07/685178	15-Apr-91	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary R.
44445	United States		07/752983	3-Sep-91	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary R.
44445	United States	5410728	08/050753	21-Apr-93	Granted		25-Apr-95	Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	United States	5604920	08/363065	22-Dec-94	Granted		18-Feb-97	Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	Venezuela	1389/89	1389	15-Sep-89	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Bertiger, Bary Robert
44445	Yugoslavia		2082/89	27-Oct-89	Inactive	Abandoned		Satellite cellular telephone and data communication system	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44445	South Africa		8907474	2-Oct-89	Inactive	Abandoned		SATELLITE CELLULAR TELEPHONE AND DATA COMMUNICATION SYSTEM	Bertiger, Bary Robert; Leopold, Raymond Joseph; Peterson, Kenneth Maynard
44508	United States	5412388	08/105235	11-Aug-93	Granted		2-May-95	Position ambiguity resolution	Attwood, Stanley W.
44509	United States	5412389	08/105988	11-Aug-93	Granted		2-May-95	Multibeam position ambiguity resolution	Olds, Keith A.
44510	Canada		2089123	9-Feb-93	Inactive	Abandoned		Position locating transceiver	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44510	European Patent Convention		93102924.3	25-Feb-93	Inactive	Abandoned		Position locating transceiver	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44510	Japan		05-062470	1-Mar-93	Inactive	Abandoned		POSITIONING TRANSCEIVER	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44510	Russian Federation		93004788/09	3-Mar-93	Inactive	Abandoned		Positioning transceiver	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44510	Ukraine		93007914	15-Jun-93	Inactive	Abandoned		Positioning transceiver	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44510	United States		07/845904	4-Mar-92	Inactive	Abandoned		Position locating transceiver	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44510	United States	5414437	08/051584	22-Apr-93	Granted		9-May-95	Position locating transceiver	Penny, Jr. Robert E.; Mihm, Jr. Thomas J.
44517	Canada	2092744	2092744	26-Mar-93	Granted		4-Dec-01	SPECTRUM RECOVERY APPARATUS AND METHOD THEREFOR	Vatt, Gregory B.
44517	Germany	69330849.4	93105127	29-Mar-93	Granted		4-Oct-01	Spectrum recovery apparatus and method therefor	Vatt, Gregory B.
44517	European Patent Convention	569693	93105127	29-Mar-93	Inactive	Validated		Spectrum recovery apparatus and method therefor	Vatt, Gregory B.
44517	France	569693	93105127	29-Mar-93	Granted		4-Oct-01	Spectrum recovery apparatus and method therefor	Vatt, Gregory B.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44517	Great Britain	569693	93105127	29-Mar-93	Granted		4-Oct-01	Spectrum recovery apparatus and method therefor	Vall, Gregory B.
44517	Japan	3077727	05-131053	10-May-93	Granted		16-Jun-00	Spectrum recovery apparatus and method therefor	Vall, Gregory B.
44517	Russian Federation		93004917/09	6-May-93	Inactive	Abandoned		Spectrum recovery apparatus and method therefor	Vall, Gregory B.
44517	Sweden	569693	93105127	29-Mar-93	Granted		4-Oct-01	Spectrum recovery apparatus and method therefor	Vall, Gregory B.
44517	Ukraine		93003042	18-Jun-93	Inactive	Abandoned		Spectrum recovery apparatus and method therefor	Vall, Gregory B.
44517	United States	5423084	07/881120	11-May-92	Granted		6-Jun-95	SPECTRUM RECOVERY APPARATUS AND METHOD THEREOF	Vall, Gregory B.
44527	Canada	2142152	2142152	9-Feb-95	Granted		18-Oct-05	METHOD AND APPARATUS FOR ADAPTIVE DIRECTED ROUTE RANDOMIZATION AND DISTRIBUTION IN A RICHLY CONNECTED COMMUNICATION NETWORK	Rahnama, Moe
44527	China P.R.	95104323.4	95104373.4	30-Mar-95	Granted		15-Jan-03	Method and apparatus for adaptive directed randomization and distribution route in richly connected communication network	Rahnama, Moe
44527	Germany	19505905	19505905	21-Feb-95	Granted		22-Feb-07	METHOD AND APPARATUS FOR ADAPTIVE DIRECTED ROUTE RANDOMIZATION AND DISTRIBUTION IN A RICHLY CONNECTED COMMUNICATION NETWORK	Rahnama, Moe
44527	France	2718314	9503942	4-Apr-95	Granted		29-Aug-97	Method and apparatus for adaptive directed route randomization and distribution in a richly connected communication network	Rahnama, Moe
44527	Great Britain	2288296	9506247.7	27-Mar-95	Granted		23-Sep-98	METHOD AND APPARATUS FOR ADAPTIVE DIRECTED ROUTE RANDOMIZATION AND DISTRIBUTION IN A RICHLY CONNECTED COMMUNICATION NETWORK	Rahnama, Moe
44527	India	191173	111/DEL/1995	27-Jan-95	Granted		6-May-04	METHOD AND APPARATUS FOR ADAPTIVE DIRECTED ROUTE RANDOMIZATION AND DISTRIBUTION IN A RICHLY CONNECTED COMMUNICATION NETWORK	Rahnama, Moe
44527	United States	5430729	08/222067	4-Apr-94	Granted		4-Jul-95	Method and apparatus for adaptive directed route randomization and distribution in a richly connected communication network	Rahnama, Moe
44534	Austria	660544	94118905.2	1-Dec-94	Inactive	Lapsed		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Canada		2135859	15-Nov-94	Inactive	Abandoned		COMMUNICATION THROUGH A CHANNEL HAVING A VARIABLE PROPAGATION DELAY	Cutler Jr., Victor H.
44534	Germany	69432214.8	94118905.2	1-Dec-94	Granted		5-Mar-03	Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Denmark	660544	94118905.2	1-Dec-94	Inactive	Abandoned		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	European Patent Convention	660544	94118905.2	1-Dec-94	Inactive	Validated		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Spain	660544	94118905.2	1-Dec-94	Inactive	Abandoned		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	France	660544	94118905.2	1-Dec-94	Granted		5-Mar-03	Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Great Britain	660544	94118905.2	1-Dec-94	Granted		5-Mar-03	Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Italy	660544	94118905.2	1-Dec-94	Granted		5-Mar-03	Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Japan		06-336678	26-Dec-94	Inactive	Abandoned		COMMUNICATION BY CHANNEL WITH VARIABLE PROPAGATION DELAY	Cutler Jr., Victor H.
44534	Luxembourg	660544	94118905.2	1-Dec-94	Inactive	Lapsed		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Netherlands	660544	94118905.2	1-Dec-94	Inactive	Lapsed		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Portugal	660544	94118905.2	1-Dec-94	Inactive	Abandoned		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Russian Federation		94045132/09	26-Dec-94	Inactive	Abandoned		COMMUNICATION BY CHANNEL WITH VARIABLE PROPAGATION DELAY	Cutler Jr., Victor H.
44534	Sweden	660544	94118905.2	1-Dec-94	Inactive	Lapsed		Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44534	Ukraine	26201	94129745	26-Dec-94	Inactive	Abandoned		COMMUNICATION BY CHANNEL WITH VARIABLE PROPAGATION DELAY	Cutler Jr., Victor H.
44534	United States	5440562	08/179389	27-Dec-93	Granted		8-Aug-95	Communication through a channel having a variable propagation delay	Cutler Jr., Victor H.
44551	Canada		2125461	8-Jun-94	Inactive	Abandoned		DYNAMIC REALLOCATION OF SPECTRAL CAPACITY IN CELLULAR COMMUNICATION SYSTEMS	Knudsen, John T.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44551	European Patent Convention		94110940.7	14-Jul-94	Inactive	Abandoned		Dynamic reallocation of spectral capacity in cellular communication systems.	Knudsen, Jhon T.
44551	Japan		06-196283	29-Jul-94	Inactive	Abandoned		DYNAMIC REALLOCATION OF SPECTRAL CAPACITANCE IN CELLULAR COMMUNICATION SYSTEM	Knudsen, Jhon T.
44551	Russian Federation		94028275/09	1-Aug-94	Inactive	Abandoned		DYNAMIC REALLOCATION OF SPECTRAL CAPACITANCE IN CELLULAR COMMUNICATION SYSTEM	Knudsen, Jhon T.
44551	United States	5448621	08/100853	2-Aug-93	Granted		5-Sep-95	Dynamic reallocation of spectral capacity in cellular communication systems	Knudsen, Jhon T.
44556	Ukraine		94085683	1-Aug-94	Inactive	Abandoned		Dynamic reallocation of spectral capacity in cellular communication systems.	Knudsen, Jhon T.
44564	China P.R.		95108144.6	29-Jun-95	Inactive	Abandoned		Method and apparatus for synchronizing to a multibeam satellite TDMA communication system	Taylor, Daniel R.
44564	India		931/DEL/95	24-May-95	Inactive	Abandoned		Method and apparatus for synchronizing to a multibeam satellite TDMA communication system	Taylor, Daniel R.
44564	Italy	1278500	9500427	23-Jun-95	Inactive	Abandoned		Method and apparatus for synchronizing to a multi-beam satellite TDMA communication system	Taylor, Daniel R.
44564	United States	5463400	08/269273	30-Jun-94	Inactive	Lapsed		Method and apparatus for synchronizing to a multi-beam satellite TDMA communication system	Taylor, Daniel R.
44568	Canada		2125371	7-Jun-94	Inactive	Abandoned		CELLULAR COMMUNICATIONS WITH SCHEDULED HANDOFFS	Moritz, Steven H.; Gregg Jr., Ralph C.; Wang, Theresa C. Y.
44568	European Patent Convention		94109902	27-Jun-94	Inactive	Abandoned		Cellular communications by satellite with scheduled handoffs.	Moritz, Steven H.; Gregg Jr., Ralph C.; Wang, Theresa C. Y.
44568	Japan	3582857	06-191970	22-Jul-94	Granted		6-Aug-04	Cellular communications by satellite with scheduled handoffs.	Moritz, Steven H.; Gregg Jr., Ralph C.; Wang, Theresa C. Y.
44568	Russian Federation		94026101/09	21-Jul-94	Inactive	Abandoned		Cellular communications by satellite with scheduled handoffs.	Moritz, Steven H.; Gregg Jr., Ralph C.; Wang, Theresa C. Y.
44568	Ukraine		94075661	25-Jul-94	Inactive	Abandoned		Cellular communications by satellite with scheduled handoffs.	Moritz, Steven H.; Gregg Jr., Ralph C.; Wang, Theresa C. Y.
44568	United States	5483664	08/095505	26-Jul-93	Inactive	Lapsed		Cellular communications with scheduled handoffs	Moritz, Steven H.; Gregg Jr., Ralph C.; Wang, Theresa C. Y.
44574	United States	5488640	08/298633	31-Aug-94	Granted		30-Jan-96	Method and apparatus for re-establishment of a communication	Redden, James P.; Terris, David; Olds, Keith A.
44575	Canada		2135855	15-Nov-94	Inactive	Abandoned		RADIO CHANNEL ACCESS CONTROL	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Germany	69432584.8	94118902.9	1-Dec-94	Granted		2-May-03	Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	European Patent Convention	658014	94118902.9	1-Dec-94	Inactive	Validated		Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	France	658014	94118902.9	1-Dec-94	Granted		2-May-03	Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Great Britain	658014	94118902.9	1-Dec-94	Granted		2-May-03	Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Italy	658014	94118902.9	1-Dec-94	Granted		2-May-03	LOW ORBITING SATELLITE CELLULAR TELECOMMUNICATION SYSTEM WITH ACCESS TO A RESTRICTED USER CLASS AS A FUNCTION OF TRAFFIC LOAD	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Japan	3880080	06-317709	29-Nov-94	Granted		17-Nov-06	Radio channel access control	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Russian Federation		94042923/09	2-Dec-94	Inactive	Abandoned		Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Sweden	658014	94118902.9	1-Dec-94	Inactive	Lapsed		Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	Ukraine	32559	94129136	25-Jul-94	Inactive	Abandoned		Low orbiting satellite cellular telecommunication system with access to a restricted user class as a function of traffic load	Redden, James Powers; Terris, David Nmi; Krutz, Michael William
44575	United States	5490087	08/161618	6-Dec-93	Granted		6-Feb-96	RADIO AND CHANNEL ACCESS CONTROL	Redden, James P.; Terris, David; Krutz, Michael W.
44586	United States	5490288	08/196614	8-Feb-94	Granted		6-Feb-96	Method for determining low signal quality communications	Wiatrowski, David G.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44587	United States	5499237	08/409287	23-Mar-95	Granted		12-Mar-96	Waste canceling packet routing system and method	Ricketts, Peter J.; Cutler Jr., R. Victor H.
44588	United States	5500648	08/105730	11-Aug-93	Granted		19-Mar-96	Geolocation responsive radio telecommunication system and method therefor	Maine, Kristine P.; Olds, Keith A.; Oavleau, Gerald J.
44589	United States	5504938	08/240937	2-May-94	Granted		2-Apr-96	Method and apparatus for varying apparent cell size in a cellular communication system	Redden, James P.
44590	United States		08/172966	27-Dec-93	Inactive	Abandoned		Wide area paging with roaming subscriber units	Maine, Kristine P.; Miller, Ann K.; Hall, Phillip E.
44590	United States	5506886	08/503257	17-Jul-95	Granted		9-Apr-96	Wide area paging with roaming subscriber units	Maine, Kristine P.; Miller, Ann K.; Hall, Phillip E.
44592	Argentina		932919	2-Aug-95	Inactive	Abandoned		Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44592	Brazil		9502452	2-Aug-95	Inactive	Abandoned		Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44592	China P.R.		95109681.8	31-Jul-95	Inactive	Abandoned		COMMUNICATION METHOD AND NETWORK WITH MULTIPLE DYNAMIC INTRASWITCHING	Bishop Jr., James William; Armbruster, Peter Joseph
44592	Great Britain	2292045	9516603.9	31-Jul-95	Inactive	Lapsed		Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44592	India		1342/DEL/95	18-Jul-95	Inactive	Abandoned		Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44592	Mexico	187156	9503242	26-Jul-95	Inactive	Abandoned		Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44592	United States	5509004	08/283415	1-Aug-94	Granted		16-Apr-96	Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44592	Venezuela		1210	20-Jul-95	Inactive	Abandoned		Communication method and network with multiple dynamic intraswitching	Bishop Jr., James William; Armbruster, Peter Joseph
44600	Brazil		9502231	13-Jun-95	Inactive	Abandoned		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Germany		19521374.2	17-Jun-95	Inactive	Lapsed		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Indonesia		951077	12-Jun-95	Inactive	Abandoned		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	India		933/DEL/95	24-May-95	Inactive	Abandoned		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Korea South	10-0377879	10-1995-0016115	13-Jun-95	Granted		14-Mar-03	Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Mexico	199802	9502231	13-Jun-95	Granted		27-Nov-00	Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Thailand		26797	12-Jun-95	Inactive	Abandoned		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Taiwan	79071	84106032	13-Jun-95	Inactive	Lapsed		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	Ukraine		95062743	13-Jun-95	Inactive	Abandoned		Operating communications network with dynamic internal switching	Bishop Jr., James William
44600	United States	5523997	08/259099	13-Jun-94	Granted		4-Jun-96	Communication network with dynamic intraswitching	Bishop Jr., James William
44600	Venezuela		968-95	14-Jun-95	Inactive	Abandoned		Operating communications network with dynamic internal switching	Bishop Jr., James William
44611	United States	5528693	08/184100	21-Jan-94	Granted		18-Jun-96	Method and apparatus for voice encryption in a communications system	Leopold, Raymond J.
44612	United States	5530902	08/075445	14-Jun-93	Granted		25-Jun-96	A DATA PACKET SWITCHING SYSTEM HAVING DMA CONTROLLER SERVICE ARBITER, BUFFER TYPE MANAGERS, AND BUFFER MANAGERS FOR MANAGING DATA TRANSFER TO PROVIDE LESS PROCESSOR INTERVENTION	McRoberts, Louis A.; Claus, Kenneth J.; Morton, Keith
44613	Canada	2143776	2143776	2-Mar-95	Granted		29-Apr-03	COMMUNICATION NETWORK WITH INCOMING CALLS DIRECTED THROUGH MOVING CELLS AND METHOD FOR OPERATING SAME	Redden, James Powers; Sowles, Kenneth Lee; Terris, David
44613	China P.R.	95105034.6	95105034.6	27-Apr-95	Granted		27-Feb-02	Communication network with incoming calls directed through moving cells and method for operation same	Redden, James Powers; Sowles, Kenneth Lee; Terris, David
44613	Germany		19515784.2	28-Apr-95	Inactive	Lapsed		Communication network with incoming calls directed through moving cells and method for operation same	Redden, James Powers; Sowles, Kenneth Lee; Terris, David
44613	France	2719438	9505134	28-Apr-95	Granted		3-Nov-95	Communication network with incoming calls directed through moving cells and method for operation same	Redden, James Powers; Sowles, Kenneth Lee; Terris, David
44613	India	192386	1995/DE00263	17-Feb-95	Inactive	Abandoned		Communication network with incoming calls directed through moving cells and method for operation same	Redden, James Powers; Sowles, Kenneth Lee; Terris, David
44613	United States	5537681	08/235995	2-May-94	Granted		16-Jul-96	Communication network with incoming calls directed through moving cells and method for operation same	Redden, James Powers; Sowles, Kenneth Lee; Terris, David
44619	United States	5539921	08/311723	23-Sep-94	Granted		23-Jul-96	Apparatus for reducing ring alert power and method therefor	Taylor, Daniel R.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44620	France	2721462	9506580	2-Jun-95	Granted		22-Dec-95	Satellite telecommunication system with apparatus for protecting radio astronomy and method of using same	Olds, Keith Andrew; Kurby, Christopher Neil
44620	India		897/DEL/1995	17-May-95	Inactive	Abandoned		Satellite telecommunication system with apparatus for protecting radio astronomy and method of using same	Olds, Keith Andrew; Kurby, Christopher Neil
44620	Russian Federation		95108876/09	2-Jun-95	Inactive	Abandoned		Satellite telecommunication system with apparatus for protecting radio astronomy and method of using same	Olds, Keith Andrew; Kurby, Christopher Neil
44620	United States	5548800	08/254012	9-Jun-94	Granted		20-Aug-95	Satellite telecommunication system with apparatus for protecting radio astronomy and method of using same	Olds, Keith Andrew; Kurby, Christopher Neil
44624	Canada		2141232	27-Jan-95	Inactive	Abandoned		METHOD AND APPARATUS FOR PREDICTIVE OPERATION OF A COMMUNICATION SYSTEM	Diekelman, Dennis Paul; Stockwell, Catherine Blythe
44624	European Patent Convention		95103142.6	6-Mar-95	Inactive	Abandoned		Method and apparatus for a multiple satellite cellular communication system with subscriber traffic prediction	Diekelman, Dennis Paul; Stockwell, Catherine Blythe
44624	Japan		07-078367	10-Mar-95	Inactive	Abandoned		METHOD AND EQUIPMENT OF PREDICTION OPERATION OF COMMUNICATION SYSTEM	Diekelman, Dennis Paul; Stockwell, Catherine Blythe
44624	Russian Federation		95103441/09	10-Mar-95	Inactive	Abandoned		METHOD AND EQUIPMENT OF PREDICTION OPERATION OF COMMUNICATION SYSTEM	Diekelman, Dennis Paul; Stockwell, Catherine Blythe
44624	Ukraine		95038239	10-Mar-95	Inactive	Abandoned		METHOD AND EQUIPMENT OF PREDICTION OPERATION OF COMMUNICATION SYSTEM	Diekelman, Dennis Paul; Stockwell, Catherine Blythe
44624	United States	5555444	08/208772	11-Mar-94	Granted		10-Sep-96	Method and apparatus for predictive operation of a communication system	Diekelman, Dennis Paul; Stockwell, Catherine Blythe
44630	China P.R.		95106033.8	27-Apr-95	Inactive	Abandoned		Communication system with locationbased access	Sowles, Kenneth Lee; Terris, David; Redden, James Powers
44630	India		265/DEL/95	17-Feb-95	Inactive	Abandoned		METHOD FOR CONTROLLING COMMUNICATION SYSTEM AND RESPECTIVE COMMUNICATION SYSTEM	Sowles, Kenneth Lee; Terris, David; Redden, James Powers
44630	Korea South	10-0377880	10-1995-0010675	2-May-95	Granted		14-Mar-03	METHOD FOR CONTROLLING COMMUNICATION SYSTEM AND RESPECTIVE COMMUNICATION SYSTEM	Sowles, Kenneth Lee; Terris, David; Redden, James Powers
44630	Russian Federation		95106467/09	28-Apr-95	Inactive	Abandoned		METHOD FOR CONTROLLING COMMUNICATION SYSTEM AND RESPECTIVE COMMUNICATION SYSTEM	Sowles, Kenneth Lee; Terris, David; Redden, James Powers
44630	Ukraine		95048369	26-Apr-95	Inactive	Abandoned		METHOD FOR CONTROLLING COMMUNICATION SYSTEM AND RESPECTIVE COMMUNICATION SYSTEM	Sowles, Kenneth Lee; Terris, David; Redden, James Powers
44630	United States	5561836	08/236801	2-May-94	Granted		1-Oct-95	Method and apparatus for qualifying access to communication system services based on subscriber unit location	Sowles, Kenneth Lee; Terris, David; Redden, James Powers
44636	United States	5561838	08/270969	1-Jul-94	Granted		1-Oct-95	Method and apparatus for satellite handoff parameters prediction in an orbiting communications system	Chandos, Ronald V.; Tayloe, Daniel R.
44637	India		1519/DEL/95	14-Aug-95	Inactive	Abandoned		Dynamic mapping apparatus for mobile unit acquisition and method therefor	Wang, Theresa Chen Yen
44637	Thailand		28213	2-Oct-95	Inactive	Abandoned		Dynamic mapping apparatus for mobile unit acquisition and method therefor	Wang, Theresa Chen Yen
44637	United States	5563606	08/317064	3-Oct-94	Granted		8-Oct-96	Dynamic mapping apparatus for mobile unit acquisition and method therefor	Wang, Theresa Chen Yen
44637	Patent Cooperation Treaty		PCT/US1995/009538	27-Jul-95	Inactive	Expired		DYNAMIC MAPPING APPARATUS FOR MOBILE UNIT ACQUISITION AND METHOD THEREFOR	Wang, Theresa Chen Yen
44641	United States	5563880	08/349273	5-Dec-94	Granted		11-Oct-96	Methods for managing and distributing payload instructions	Sabourin, Donald J.; Grosberg, John A.
44642	United States	5574660	08/089464	12-Jul-93	Granted		12-Nov-96	Communication method and apparatus	Diekelman, Dennis P.
44643	France		9506515	1-Jun-95	Inactive	Abandoned		Communication transfer method for satellite cellular transmission	Olds, Keith Andrew; Redden, James Powers; Kurby, Christopher Neil
44643	India		898/DEL/1995	17-May-95	Inactive	Abandoned		Communication transfer method for satellite cellular transmission	Olds, Keith Andrew; Redden, James Powers; Kurby, Christopher Neil
44643	Russian Federation		95108867/09	31-May-95	Inactive	Abandoned		METHOD FOR SWITCHING INDIVIDUAL USER STATION FROM CURRENT CELL TO ONE OF MULTIPLE POSSIBLE CELLS IN SATELLITE CELLULAR COMMUNICATION NETWORK	Olds, Keith Andrew; Redden, James Powers; Kurby, Christopher Neil
44643	United States	5573968	08/252472	1-Jun-94	Granted		12-Nov-96	Satellite cellular communication methods for performing cell-to-cell handoff	Olds, Keith Andrew; Redden, James Powers; Kurby, Christopher
44647	Germany	19581822.9	19581822.9	25-Aug-95	Granted		17-Feb-05	METHOD AND APPARATUS FOR REGIONAL CELL MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Olds, Keith Andrew; Spicer, Todd Edward; Terris, David
44647	European Patent Convention		95932315.5	25-Aug-95	Inactive	Abandoned		METHOD AND APPARATUS FOR REGIONAL CELL MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Olds, Keith Andrew; Spicer, Todd Edward; Terris, David
44647	Great Britain	2308957	9707048.6	25-Aug-95	Granted		14-Apr-99	Method and apparatus for regional cell management in a satellite	Olds, Keith Andrew; Spicer, Todd Edward; Terris, David



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44647	India	192385	1613	30-Aug-95	Inactive	Abandoned		METHOD AND APPARATUS FOR REGIONAL CELL MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Olds, Keith Andrew; Spicer, Tadd Edward; Terris, David
44647	Japan	3836135	08-515278	25-Aug-95	Granted		4-Aug-06	METHOD AND APPARATUS FOR REGIONAL CELL MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Olds, Keith Andrew; Spicer, Tadd Edward; Terris, David
44647	United States	5574969	08/336140	8-Nov-94	Granted		17-Nov-96	Method and apparatus for regional cell management in a satellite communication system	Olds, Keith Andrew; Spicer, Tadd Edward; Terris, David
44647	Patent Cooperation Treaty		PCT/US1995/010792	25-Aug-95	Inactive	Expired		METHOD AND APPARATUS FOR REGIONAL CELL MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Olds, Keith Andrew; Spicer, Tadd Edward; Terris, David
44654	United States	5579307	08/409288	23-Mar-95	Granted		26-Nov-96	Packet routing system and method with quasi-real-time control	Richetta, Peter Jules; Peterson, Kenneth Maynard
44655	Great Britain	2290436	9511905.3	12-Jun-95	Inactive	Lapsed		Method and apparatus for establishing communication links between non-stationary communication units	Stackman, James Thomas; Diekelman, Dennis Paul
44655	United States	5579536	08/259093	13-Jun-94	Granted		26-Nov-96	METHOD AND APPARATUS FOR ESTABLISHING COMMUNICATION LINKS BETWEEN NON-STATIONARY COMMUNICATION UNITS	Stackman, James Thomas; Diekelman, Dennis Paul; Davieau, Gerald Joseph
44657	Canada		2179229	17-Jun-96	Inactive	Abandoned		APPARATUS AND METHOD FOR CONVEYING FRAME TIMING, DATA TIMING AND DATA	Fielden, John Nathan; Card, Stuart Lee; Stephens, James Allen
44657	France		9609743	1-Aug-96	Inactive	Abandoned		Apparatus and method for conveying frame timing, data timing, and data	Fielden, John Nathan; Card, Stuart Lee; Stephens, James Allen
44657	Great Britain	2303986	9615906.6	29-Jul-96	Inactive	Lapsed		Apparatus and method for conveying frame timing, data timing, and data	Fielden, John Nathan; Card, Stuart Lee; Stephens, James Allen
44657	United States	5581390	08/509920	1-Aug-95	Granted		3-Dec-96	Apparatus and method for conveying frame timing, data timing, and data	Fielden, John Nathan; Card, Stuart Lee; Stephens, James Allen
44661	China P.R.		95197400.9	17-Nov-95	Inactive	Abandoned		Satellite fueling system and method therefor	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44661	European Patent Convention		95944030.6	17-Nov-95	Inactive	Abandoned		SATELLITE FUELING SYSTEM AND METHOD THEREFOR	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44661	India		2246/DEL/1995	17-Nov-95	Inactive	Abandoned		Satellite fueling system and method therefor	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44661	Japan	3942632	08-522236	17-Nov-95	Granted		13-Apr-07	SATELLITE FUELING SYSTEM AND METHOD THEREFOR	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44661	Russian Federation		97113715/28	17-Nov-95	Inactive	Abandoned		METHOD OF FILLING SPACECRAFT WITH PROPELLANT AND DEVICE FOR REALIZATION OF THIS METHOD	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44661	United States	5582366	08/375038	19-Jan-95	Granted		10-Dec-96	Satellite fueling system and method therefor	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44661	Patent Cooperation Treaty		PCT/US1995/015113	17-Nov-95	Inactive	Expired		SATELLITE FUELING SYSTEM AND METHOD THEREFOR	Hamant, James Edward; McBride, John Reece; Cubbage, David Herschel
44668	Canada		2134824	1-Nov-94	Inactive	Abandoned		SATELLITE CELLULAR NETWORK RESOURCE MANAGEMENT METHOD AND APPARATUS	Diekelman, Dennis Paul
44668	Germany	69433421.9	94117233	2-Nov-94	Granted		17-Dec-03	Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	European Patent Convention	652649	94117233	2-Nov-94	Inactive	Validated		Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	France	652649	94117233	2-Nov-94	Granted		17-Dec-03	Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	Great Britain	652649	94117233	2-Nov-94	Granted		17-Dec-03	Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	Italy	652649	94117233	2-Nov-94	Inactive	Lapsed	17-Dec-03	Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	Japan	3640419	06-292055	1-Nov-94	Granted		28-Jan-05	SATELLITE CELLULAR NETWORK RESOURCE MANAGEMENT METHOD AND APPARATUS	Diekelman, Dennis Paul
44668	Netherlands	652649	94117233	2-Nov-94	Inactive	Lapsed		Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	Russian Federation		9404175/09	9-Nov-94	Inactive	Abandoned		Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	Ukraine		94119004	9-Nov-94	Inactive	Abandoned		Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44668	United States	5590395	08/150702	10-Nov-93	Granted		31-Dec-96	Satellite cellular network resource management method and apparatus	Diekelman, Dennis Paul
44679	United States	5592175	08/519869	25-Aug-95	Granted		7-Jan-97	Location determination method and apparatus for a communication unit	Taylor, Daniel Richard
44680	Canada		2207046	10-Oct-95	Inactive	Abandoned		STATISTICALLY ROBUST TRAFFIC MODELING METHOD AND APPARATUS	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	China P.R.		95186939	10-Oct-95	Inactive	Abandoned		Statistically robust traffic modeling method and apparatus	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	Germany		19581868.7	10-Oct-95	Inactive	Lapsed		STATISTICALLY ROBUST TRAFFIC MODELING METHOD AND APPARATUS	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	Germany	69534103	95935711.7	7-Oct-95	Granted		23-Mar-05	METHOD OF OPERATING AN ADDRESSABLE CALL RECEIVER	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44680	European Patent Convention		95938813.3	10-Oct-95	Inactive	Abandoned		STATISTICALLY ROBUST TRAFFIC MODELING METHOD AND APPARATUS	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	European Patent Convention	786144	95935712.2	2-Oct-95	Inactive	Validated		METHOD OF OPERATING AN ADDRESSABLE CALL RECEIVER	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44680	France	786144	95935711.2	2-Oct-95	Granted		23-Mar-05	METHOD OF OPERATING AN ADDRESSABLE CALL RECEIVER	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44680	Great Britain	2311193	9711519	10-Oct-95	Inactive	Abandoned		Statistically robust traffic modelling method and apparatus	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	Great Britain	786144	95935711.2	2-Oct-95	Granted		23-Mar-05	METHOD OF OPERATING AN ADDRESSABLE CALL RECEIVER	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44680	India		1974/OEL/95	27-Oct-95	Inactive	Abandoned		Statistically robust traffic modeling method and apparatus	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	Japan	3853359	08-512124	2-Oct-95	Granted		15-Sep-06	Multi-beam satellite-based messaging system	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44680	Malaysia		9503856	13-Dec-95	Inactive	Abandoned		Statistically robust traffic modeling method and apparatus	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	United States	5594940	08/361402	22-Dec-94	Granted		14-Jan-97	Statistically robust traffic modeling method and apparatus	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44680	Patent Cooperation Treaty		PCT/US1995/013522	10-Oct-95	Inactive	Expired		STATISTICALLY ROBUST TRAFFIC MODELING METHOD AND APPARATUS	Peterson, Kenneth Maynard; Davieau, Gerald Joseph
44690	Australia	688147	37626/95	2-Oct-95	Inactive	Lapsed		Multi-beam satellite-based messaging system	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44690	Brazil		9509221	2-Oct-95	Inactive	Abandoned		Multi-beam satellite-based messaging system	Vatt, Gregory Barton; Kurby, Christopher Neil; Olds, Keith Andrew
44690	Canada		2201382	2-Oct-95	Inactive	Abandoned		MULTI-BEAM SATELLITE-BASED MESSAGING SYSTEM	Olds, Keith Andrew; Kurby, Christopher Neil; Vatt, Gregory Barton
44690	China P.R.	95195469.5	95195469.5	2-Oct-95	Granted		7-Mar-01	Multi-beam satellite-based messaging system	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44690	United States	5596315	08/317084	9-Oct-94	Granted		21-Jan-97	Message unit for use with multi-beam satellite-based messaging system and method of operation thereof	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44690	Patent Cooperation Treaty		PCT/US1995/012728	2-Oct-95	Inactive	Expired		MULTI-BEAM SATELLITE-BASED MESSAGING SYSTEM	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
44701	Argentina		333638	25-Sep-95	Inactive	Abandoned		Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Australia		27216/95	27-Jul-95	Inactive	Lapsed		Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Brazil	9504746	9504746	28-Sep-95	Granted		30-Jan-07	Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	China P.R.	95116801	95116801	31-Aug-95	Granted		5-May-04	Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Great Britain	2293524	9518348.9	8-Sep-95	Granted		5-Aug-98	Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	India	193587	1526/OEL/1995	16-Aug-95	Granted		27-Jan-06	Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Korea South	10-0362296	10 1995 0031775	26-Sep-95	Granted		12-Nov-02	Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Mexico	190553	9504064	22-Sep-95	Inactive	Abandoned		METHOD AND APPARATUS FOR PROVIDING INCREASED ACCESS TO A LOCAL COMMUNICATION NETWORK	Armbruster, Peter Joseph
44701	Malaysia		9502848	25-Sep-95	Inactive	Abandoned		Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Thailand		28099	25-Sep-95	Inactive	Abandoned		Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	United States	5596624	08/312364	26-Sep-94	Granted		21-Jan-97	Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44701	Venezuela		1644	18-Sep-95	Inactive	Abandoned		Method and apparatus for providing increased access to a local communication network	Armbruster, Peter Joseph
44713	United States	5596722	08/415948	3-Apr-95	Granted		21-Jan-97	Packet routing system and method for achieving uniform link usage and minimizing link load	Rahmens, Moa
44714	India		1083/OEL/1995	13-Jun-95	Inactive	Abandoned		PROCESS FOR INTER-SATELLITE TRANSFER OF DATA PACKETS	Daele, Gerry Van; Hines, Kenneth W.; Sanders, Bradley T.; Sabourin, Donald J.
44714	Italy	1278517	9500496	19-Jul-95	Inactive	Abandoned		PROCESS FOR INTER-SATELLITE TRANSFER OF DATA PACKETS	Daele, Gerry Van; Hines, Kenneth W.; Sanders, Bradley T.; Sabourin, Donald J.
44714	Malaysia		9502061	19-Jul-95	Inactive	Abandoned		PROCESS FOR INTER-SATELLITE TRANSFER OF DATA PACKETS	Daele, Gerry Van; Hines, Kenneth W.; Sanders, Bradley T.; Sabourin, Donald J.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44714	Ukraine		95073480	24-Jul-95	Inactive	Abandoned		PROCESS FOR INTER-SATELLITE TRANSFER OF DATA PACKETS	Daele, Gerry Van; Hines, Kenneth W.; Sanders, Bradley T.; Sabourin, Donald J.
44714	United States		08/279729	25-Jul-94	Inactive	Abandoned		Inter-satellite method for routing packets	Daele, Gerry Van; Hines, Kenneth W.; Sanders, Bradley T.; Sabourin, Donald J.
44714	United States	5600629	08/324955	8-Sep-95	Granted		4-Feb-97	Inter-satellite method for routing packets	Daele, Gerry Van; Hines, Kenneth W.; Sanders, Bradley T.; Sabourin, Donald J.
44720	Argentina		19950334412	28-Nov-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Australia	691047	88959/95	19-Oct-95	Inactive	Lapsed		Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Brazil	9510014	9510014	19-Oct-95	Granted		29-Oct-02	SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Canada	2203813	2203813	19-Oct-95	Granted		25-Apr-06	SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	China P.R.	95197028.3	95197028.3	19-Oct-95	Granted		8-Nov-05	Specialized call routing method and apparatus for cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Germany	19581853.9	19581853.9	19-Oct-95	Granted		22-Oct-09	SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Germany		19581953.5	19-Oct-95	Filed			SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	European Patent Convention	799555	95938259.9	19-Oct-95	Inactive	Validated		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Finland	116872	972614	19-Oct-95	Inactive	Lapsed		Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	France	799555	95938259.9	19-Oct-95	Granted		22-Jan-03	Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Great Britain	799555	95938259.9	19-Oct-95	Inactive	Closed		Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	India	194704	194704	27-Oct-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Italy	799555	95938259.9	19-Oct-95	Inactive	Lapsed	22-Jan-03	Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Japan	3842817	08-519764	19-Oct-95	Granted		18-Aug-06	SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Korea South	10-0393692	10-1997-0704401	19-Oct-95	Granted		23-Jul-03	SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Mexico		9704402	19-Oct-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Malaysia		9503857	19-Dec-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Netherlands	799555	95938259.9	19-Oct-95	Inactive	Lapsed		Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Norway		972758	19-Oct-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Russian Federation		97112134/09	19-Oct-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Sweden	799555	95938259.9	19-Oct-95	Inactive	Lapsed		Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Thailand	18999	29367	20-Dec-95	Inactive	Abandoned		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	United States	5602901	08/361400	22-Dec-94	Granted		11-Feb-97	Specialized call routing method and apparatus for a cellular communication system	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44720	Patent Cooperation Treaty		PCT/US1995/013311	19-Oct-95	Inactive	Expired		SPECIALIZED CALL ROUTING METHOD AND APPARATUS FOR A CELLULAR COMMUNICATION SYSTEM	Redden, James Powers; Krutz, Michael William; Astrom, Richard Lawrence
44743	United States	5603079	08/317090	3-Oct-94	Granted		11-Feb-97	Satellite-based messaging system transmitting during guard band of satellite based telephone system and method of operation thereof	Olds, Keith A.; Vatt, Gregory B.; Kurby, Christopher N.

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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44744	United States	5608721	08/415800	3-Apr-95	Granted		4-Mar-97	Communications network and method which implement diversified routing	Narasajan, Kadathur S.; Murty, Katta G.
44745	France	2738980	9610043	9-Aug-96	Granted		17-Aug-01	Adaptive beam pointing method and apparatus for a communication system	Diekelman, Dennis P.
44745	Great Britain	2305578	9619348.7	17-Sep-96	Inactive	Lapsed		Adaptive beam pointing method and apparatus for a communication system	Diekelman, Dennis P.
44745	Italy	1285884	9600611	9-Sep-96	Inactive	Abandoned		Adaptive beam pointing method and apparatus for a communication system	Diekelman, Dennis P.
44745	Korea South		10-1896-0040457	18-Sep-96	Inactive	Abandoned		Adaptive beam pointing method and apparatus for a communication system	Diekelman, Dennis P.
44745	Taiwan		85107771	27-Jun-96	Inactive	Abandoned		Adaptive beam pointing method and apparatus for a communication system	Diekelman, Dennis P.
44745	United States	5612701	08/529829	18-Sep-95	Granted		18-Mar-97	Adaptive beam pointing method and apparatus for a communication system	Diekelman, Dennis P.
44751	United States	5613194	08/917083	3-Oct-94	Granted		18-Mar-97	Satellite-based cellular messaging system and method of operation thereof	Olds, Keith A.; Vatt, Gregory B.; Kurby, Christopher N.
44752	United States	5617101	08/363854	27-Dec-94	Granted		1-Apr-97	Satellite-based geolocation calibration system and method	Maine, Kristine P.; Heuvel, Dean P. V.; McKay, Brent M.
44753	China P.R.		95196866.1	27-Oct-95	Inactive	Abandoned		POSITION LOCATING AND COMMUNICATION SYSTEM USING MULTIPLE SATELLITE CONSTELLATIONS	Horkin, Philip Ronald; Ma, Stephen Chih-Hung; Durbarow, Ill Isaac Newton; Muncaster, George William
44753	Malaysia		9503441	13-Nov-95	Inactive	Abandoned		POSITION LOCATING AND COMMUNICATION SYSTEM USING MULTIPLE SATELLITE CONSTELLATIONS	Horkin, Philip Ronald; Ma, Stephen Chih-Hung; Durbarow, Ill Isaac Newton; Muncaster, George William
44753	Thailand		28798	15-Nov-95	Inactive	Abandoned		POSITION LOCATING AND COMMUNICATION SYSTEM USING MULTIPLE SATELLITE CONSTELLATIONS	Horkin, Philip Ronald; Ma, Stephen Chih-Hung; Durbarow, Ill Isaac Newton; Muncaster, George William
44753	United States	5619211	08/341244	17-Nov-94	Granted		8-Apr-97	Position locating and communication system using multiple satellite constellations	Horkin, Philip Ronald; Ma, Stephen Chih-Hung; Durbarow, Ill Isaac Newton; Muncaster, George William
44753	Patent Cooperation Treaty		PCT/US1995/013814	27-Oct-95	Inactive	Expired		POSITION LOCATING AND COMMUNICATION SYSTEM USING MULTIPLE SATELLITE CONSTELLATIONS	Horkin, Philip Ronald; Ma, Stephen Chih-Hung; Durbarow, Ill Isaac Newton; Muncaster, George William
44758	Argentina		332821	17-Jul-95	Inactive	Abandoned		Communication system with link margin control and method	Bucher, William Alexander
44758	Australia	683547	20556/95	8-Jun-95	Inactive	Lapsed		Communication system with link margin control and method	Bucher, William Alexander
44758	China P.R.		95108430.5	14-Jul-95	Inactive	Abandoned		Communication system with link margin control and method	Bucher, William Alexander
44758	Germany		19524479.6	5-Jul-95	Inactive	Abandoned		Communication spacing control procedure for ascertaining quality of received signal	Bucher, William Alexander
44758	India		1080/DEL/1995	13-Jun-95	Inactive	Abandoned		Communication system with link margin control and method	Bucher, William Alexander
44758	Korea South		10-1995-0020140	10-Jul-95	Inactive	Abandoned		Communication system with link margin control and method	Bucher, William Alexander
44758	Russian Federation	2163051	95113119/09	17-Jul-95	Granted		10-Feb-01	METHOD AND SYSTEM FOR LINK MARGIN CONTROL	Bucher, William Alexander
44758	United States	5621737	08/276728	18-Jul-94	Granted		15-Apr-97	Communication system with link margin control and method	Bucher, William Alexander
44766	United States		08/220423	30-Mar-94	Inactive	Abandoned		Method and apparatus for load sharing in a satellite communication system	Jan, Yih G.; Peterson, Kenneth M.
44766	United States	5625868	08/553083	3-Nov-95	Granted		29-Apr-97	Method and apparatus for load sharing in a satellite communication system	Jan, Yih G.; Peterson, Kenneth M.
44769	Canada		2209007	17-Nov-95	Inactive	Abandoned		FLEXIBLE SIGNAL SOURCE LOCATION APPARATUS AND METHOD THEREFOR	Heuvel, Dean Paul Vanden; Lester, Joseph Oik; Blanchard, Scott David
44768	Germany		19581884.9	17-Nov-95	Filed			FLEXIBLE SIGNAL SOURCE LOCATION APPARATUS AND METHOD THEREFOR	Heuvel, Dean Paul Vanden; Lester, Joseph Oik; Blanchard, Scott David
44768	Great Britain	2312802	9713729.3	17-Nov-95	Inactive	Lapsed		Flexible signal source location apparatus and method therefor	Heuvel, Dean Paul Vanden; Lester, Joseph Oik; Blanchard, Scott David
44768	United States	5629707	08/369617	6-Jan-95	Granted		13-May-97	Flexible signal source location apparatus and method therefor	Heuvel, Dean Paul Vanden; Lester, Joseph Oik; Blanchard, Scott David
44768	Patent Cooperation Treaty		PCT/US1995/015066	17-Nov-95	Inactive	Expired		Flexible signal source location apparatus and method therefor	Heuvel, Dean Paul Vanden; Lester, Joseph Oik; Blanchard, Scott David
44773	Argentina	353	950100568	14-Dec-95	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Australia	690395	41532/96	13-Nov-95	Inactive	Lapsed		Satellite communication system at an inclined orbit	Vatt, Gregory Barton
44773	Brazil		9506890	13-Nov-95	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Canada		2180142	13-Nov-95	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	China P.R.	95191722.6	95191722.6	13-Nov-95	Granted		24-Apr-02	Satellite communication system at an inclined orbit	Vatt, Gregory Barton
44773	Germany		19581504.1	13-Nov-95	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	European Patent Convention	746498	95999872.8	13-Nov-95	Inactive	Validated		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44773	France	746498	95939872.8	13-Nov-95	Granted		6-Oct-99	SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Great Britain	2301511	9617584.9	13-Nov-95	Granted		14-Jul-99	Satellite communication system at an inclined orbit	Vatt, Gregory Barton
44773	India		2146/DEL/95	22-Nov-95	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Italy	746498	95939872.8	13-Nov-95	Inactive	Lapsed	6-Oct-99	SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Mexico	215254	9603047	13-Nov-95	Inactive	Lapsed	16-Jul-03	SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Malaysia	115455	9503998	20-Dec-95	Inactive	Lapsed		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	Russian Federation		96120182/09	13-Nov-95	Inactive	Abandoned		SLANT ORBIT SATELLITE CELLULAR SYSTEM FOR TELEPHONE COMMUNICATION AND DATA TRANSMISSION	Vatt, Gregory Barton
44773	Thailand		29427	25-Dec-95	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44773	United States	5641134	08/363797	27-Dec-94	Granted		24-Jun-97	Satellite cellular telephone and data communication system at an inclined orbit	Vatt, Gregory Barton
44773	Patent Cooperation Treaty		PCT/US1995/014 617	13-Nov-95	Inactive	Expired		SATELLITE COMMUNICATION SYSTEM AT AN INCLINED ORBIT	Vatt, Gregory Barton
44790	United States	5657323	08/506307	24-Jul-95	Granted		12-Aug-97	Method and apparatus for signal transmission in a communication system	Jan, Yih Guang, Culler, Jr., Victor Hawes
44791	India		1995DE01017	2-Jun-95	Inactive	Abandoned		A satellite-based message delivery apparatus	Brooks, Barbara; Terris, David
44791	Italy		9500439	28-Jun-95	Inactive	Abandoned		Method and apparatus for delivering messages in a communication system	Brooks, Barbara; Terris, David
44791	Malaysia	123666	9501850	4-Jul-95	Inactive	Abandoned		A satellite-based message delivery apparatus	Brooks, Barbara; Terris, David
44791	United States		08/270568	5-Jul-94	Inactive	Abandoned		Method and apparatus for delivering messages in a communication system	Brooks, Barbara; Terris, David
44791	United States	5659298	08/606806	26-Feb-96	Granted		19-Aug-97	Method and apparatus for delivering messages in a communication system	Brooks, Barbara; Terris, David
44796	United States	5663961	08/393787	24-Feb-95	Granted		2-Sep-97	PACKET SWITCH WITH CENTRALIZED BUFFERING FOR MANY OUTPUT CHANNELS	McRoberts, deceased, Louis Alb; Hines, Kenneth Wayne; Miller, Karl Eric; Lang, Gary James
44797	Belgium	582073	93109770.3	18-Jun-93	Inactive	Lapsed		Remote position determination	Kristine Patricia
44797	Canada		2097974	8-Jun-93	Inactive	Abandoned		REMOTE POSITION DETERMINATION	Kristine Patricia
44797	Germany	69328705	93109770.3	18-Jun-93	Inactive	Lapsed		Remote position determination	Kristine Patricia
44797	European Patent Convention	582073	93109770.3	18-Jun-93	Inactive	Validated		Remote position determination	Kristine Patricia
44797	France	582073	93109770.3	18-Jun-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	Great Britain	582073	93109770.3	18-Jun-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	Italy	582073	93109770.3	18-Jun-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	Japan	3309230	05-208185	2-Aug-93	Inactive	Lapsed		JUDGMENT METHOD OF REMOTE POSITION AND COMMUNICATION INTEGRATED SYSTEM FOR JUDGMENT OF POSITION OF MOVING BODY	Kristine Patricia
44797	Luxembourg	582073	93109770.3	18-Jun-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	Russian Federation		93038863/09	2-Aug-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	Sweden	582073	93109770.3	18-Jun-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	Ukraine		93003178	2-Aug-93	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	United States		07/923755	3-Aug-92	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	United States		08/402799	13-Mar-95	Inactive	Abandoned		REMOTE POSITION DETERMINATION	Kristine Patricia
44797	United States		08/692417	5-Aug-96	Inactive	Abandoned		Remote position determination	Kristine Patricia
44797	United States		08/395528	28-Feb-95	Inactive	Abandoned		Remote position determination	Malne, Kristine Patricia
44797	United States	5666647	08/683184	18-Jul-95	Granted		9-Sep-97	Remote position determination	Malne, Kristine Patricia
44824	United States	5673256	08/506604	25-Jul-95	Granted		30-Sep-97	Apparatus and method for sending data messages at an optimum time	Malne, Kristine Patricia
44825	United States	5678184	08/491006	28-Apr-95	Granted		14-Oct-97	METHOD OF PRE-COMPUTATION OF CANDIDATE HANDOFF CELL LIST FOR CELLULAR COMMUNICATIONS	Cutler, Jr., Victor Hawes, Davieau, Gerald Joseph; Olds, Keith Andrew
44826	United States	5689803	08/519220	25-Aug-95	Granted		18-Nov-97	Dial-back call completion method and apparatus in a radio-communication system	Taylor, Daniel Richard
44827	European Patent Convention		96120961.6	27-Dec-96	Inactive	Abandoned		Data synchronizer lock detector and method of operation thereof	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander

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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44827	Japan		08-357125	26-Dec-96	Inactive	Abandoned		LOCK DETECTOR FOR DATA SYNCHRONIZING DEVICE AND OPERATING METHOD THEREFOR	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44827	Korea South		10-1996-0082513	31-Dec-96	Inactive	Abandoned		Data synchronizer lock detector and method of operation thereof	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44827	Taiwan		85113005	23-Oct-96	Inactive	Abandoned		Data synchronizer lock detector and method of operation thereof	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44827	United States	5694440	08/582840	2-Jan-96	Granted		2-Dec-97	DATA SYNCHRONIZER LOCK DETECTOR AND METHOD OF OPERATION THEREOF	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44832	United States	5696423	08/496835	29-Jun-95	Granted		9-Dec-97	TEMPERATURE COMPENSATED RESONATOR AND METHOD	Dydyk, Michael; Welling, John Robert
44832	United States	6131256	08/839117	23-Apr-97	Granted		17-Oct-00	Temperature compensated resonator and method	Dydyk, Michael; Welling, John Robert
44834	United States	5697056	08/436675	8-May-95	Granted		9-Dec-97	Communication system in which radio subscriber units mitigate interference	Taylor, Daniel Richard
44835	France		9612389	10-Oct-96	Inactive	Abandoned		Integrated Sharing of Satellite Access Link Bandwidth	Natarajan, Kadathur S.
44835	Great Britain	2306859	9622098.3	23-Oct-96	Inactive	Lapsed		Integrated Sharing of Satellite Access Link Bandwidth	Natarajan, Kadathur S.
44835	Italy	1286327	9606655	27-Sep-96	Inactive	Abandoned		Integrated Sharing of Satellite Access Link Bandwidth	Natarajan, Kadathur S.
44835	United States	5699355	08/551969	2-Nov-95	Granted		16-Dec-97	System and methods for integrated sharing of satellite access link bandwidth	Natarajan, Kadathur S.
44839	Germany		19729424.3	9-Jul-97	Inactive	Abandoned		Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44839	France		9709630	29-Jul-97	Inactive	Abandoned		Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44839	Great Britain		9714442.2	10-Jul-97	Inactive	Abandoned		Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44839	Italy	1293056	9700373	23-Jun-97	Inactive	Abandoned		Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44839	Sweden		9702131-5	5-Jun-97	Inactive	Abandoned		Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44839	Singapore		972512-6	21-Jul-97	Inactive	Abandoned		Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44839	United States	5703595	08/691256	2-Aug-96	Granted		30-Dec-97	Method and apparatus for erratic doppler frequency shift compensation	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44846	United States	5710805	08/552964	3-Nov-95	Granted		20-Jan-98	Combined registration and call continuation method and apparatus for a mobile communication system	Ambruster, Peter Joseph; Sowles, Kenneth Lee; Taylor, Daniel Richard; Bishop, Jr., James William
44847	United States	5710971	08/574060	18-Dec-95	Granted		20-Jan-98	RADIO COMMUNICATION NETWORK AND METHOD FOR UNOBTUSIVE CALL INTERCEPTION VIA DATA DUPLICATION	Ambruster, Peter Joseph; Wild, Johanna Alexandra; Heuvel, Dean Paul Vanden; Blanchard, Scott David; LESTER, JOSEPH OLK
44848	United States	5770450	08/398829	6-Mar-95	Granted		24-Feb-98	Precision alignment and movement restriction safeguard mechanism for loading multiple satellites into a launch vehicle	Kanne, Mark Melvin
44849	United States	5721534	08/552159	2-Nov-95	Granted		24-Feb-98	Paging system with adaptive monitoring schedule and method of operation thereof	Olds, Keith Andrew; Gregg, Ralph Charles; Smith, Patrick O'Connor
44850	Germany		19725798.4	18-Jun-97	Inactive	Abandoned		Multi-mode variable bandwidth repeater switch and method therefor	Daniel, Brian Michael; Ibanez-Meier, Rodrigo; Basuthakur, Sibnath
44850	France	2750551	9707912	25-Jun-97	Granted		18-Apr-03	Multi-mode variable bandwidth repeater switch and method therefor	Daniel, Brian Michael; Ibanez-Meier, Rodrigo; Basuthakur, Sibnath
44850	Great Britain	2314997	9711513.3	5-Jun-97	Granted		10-May-00	Multi-mode variable bandwidth repeater switch and method therefor	Daniel, Brian Michael; Ibanez-Meier, Rodrigo; Basuthakur, Sibnath
44850	Japan		09-184407	24-Jun-97	Inactive	Abandoned		MULTI-MODE VARIABLE BAND REPEATER SWITCH AND ITS METHOD	Daniel, Brian Michael; Ibanez-Meier, Rodrigo; Basuthakur, Sibnath
44850	United States	5724659	08/673584	1-Jul-96	Granted		3-Mar-98	Multi-mode variable bandwidth repeater switch and method therefor	Daniel, Brian Michael; Ibanez-Meier, Rodrigo; Basuthakur, Sibnath
44855	United States	5732351	08/522034	31-Aug-95	Granted		24-Mar-98	Communication system and method for single channel hand-offs	Olds, Keith Andrew; Redden, James Powers; Davleau, Gerald Joseph
44856	United States	5737716	08/578730	76-Dec-95	Granted		7-Apr-98	Method and apparatus for encoding speech using neural network technology for speech classification	Bergstrom, Chad Scott; Garrison, III, Clarence; Sidney, Clarence
44857	China P.R.	97115323.X	97115323.X	4-Aug-97	Granted		30-Jul-03	Method for rapid determination of assigned region associated with location on earth	Lester, Joseph Olk; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Germany		19729425.1	9-Jul-97	Inactive	Abandoned		Database generation method for global wireless communication	Lester, Joseph Olk; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	France		9709631	29-Jul-97	Inactive	Abandoned		Database generation method for global wireless communication	Lester, Joseph Olk; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Italy	1293543	9700443	18-Jul-97	Granted		1-Mar-99	Database generation method for global wireless communication	Lester, Joseph Olk; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Japan		09-210096	18-Jul-97	Inactive	Abandoned		METHOD FOR DISCRIMINATING ASSIGNMENT AREA AT HIGH SPEED IN RELATION TO POSITION ON THE EARTH	Lester, Joseph Olk; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Korea South		10-1997-003737B	5-Aug-97	Inactive	Abandoned		Method for rapid determination of assigned region associated with location on earth	Lester, Joseph Olk; Blanchard, Scott David; VandenHeuvel, Dean Paul



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44857	Sweden	520751	9702340-2	19-Jun-97	Granted		19-Aug-03	Database generation method for global wireless communication	Lester, Joseph Oik; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Singapore		9701688-5	23-May-97	Inactive	Abandoned		Method for rapid determination of an assigned region associated with a location on the earth	Lester, Joseph Oik; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Thailand		38221	30-Jun-97	Inactive	Abandoned		Method for rapid determination of assigned region associated with location on earth	Lester, Joseph Oik; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	Taiwan	345587	86107987	10-Jun-97	Inactive	Lapsed		Method for rapid determination of assigned region associated with location on earth	Lester, Joseph Oik; Blanchard, Scott David; VandenHeuvel, Dean Paul
44857	United States	5737731	08/692109	5-Aug-96	Granted		7-Apr-98	Method for rapid determination of an assigned region associated with a location on the earth	Lester, Joseph Oik; Blanchard, Scott David; VandenHeuvel, Dean Paul
44868	France	2741492	9613510	6-Nov-96	Granted		24-Aug-01	Method and Beam stepping Apparatus for a Satellite Cellular Communication System	Jan, Yih Guang; Peterson, Kenneth Maynard
44868	Great Britain	2307377	9622052	23-Oct-96	Inactive	Lapsed		Method and Beam stepping Apparatus for a Satellite Cellular Communication System	Jan, Yih Guang; Peterson, Kenneth Maynard
44868	Italy	1286341	9600686	9-Oct-96	Granted		8-Jul-98	Method and Beam stepping Apparatus for a Satellite Cellular Communication System	Jan, Yih Guang; Peterson, Kenneth Maynard
44868	Japan	3845158	08-318811	13-Nov-96	Granted		25-Aug-06	BEAM STEP METHOD AND DEVICE IN SATELLITE CELLULAR COMMUNICATION SYSTEM	Jan, Yih Guang; Peterson, Kenneth Maynard
44868	United States	5739784	08/560605	20-Nov-95	Granted		14-Apr-98	Method and beam stepping apparatus for a satellite cellular communication system	Jan, Yih Guang; Peterson, Kenneth Maynard
44873	China P.R.		96110185.7	12-Jul-96	Inactive	Abandoned		Centralized dynamic channel assignment controller and methods	Jan, Yih G.; Peterson, Kenneth M.
44873	India		1559/DEL/1996	12-Jul-96	Inactive	Abandoned		Centralized dynamic channel assignment controller and methods	Jan, Yih G.; Peterson, Kenneth M.
44873	United States	5749044	08/502793	14-Jul-95	Granted		5-May-98	Centralized dynamic channel assignment controller and methods	Natarajan, Kadathur S.; Jan, Yih G.; Peterson, Kenneth M.
44876	Brazil		9603750-4	13-Sep-96	Inactive	Abandoned		Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44876	China P.R.	96122670.6	96122670.6	25-Oct-96	Granted		22-May-02	Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44876	Indonesia		963064	25-Oct-96	Inactive	Abandoned		Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44876	Italy	1286340	9600685	9-Oct-96	Granted		8-Jul-98	Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44876	Korea South	10-0422992	10-1995-0051507	1-Nov-96	Granted		3-Mar-04	Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44876	Taiwan		85108744	18-Jul-96	Inactive	Abandoned		Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44876	United States	5752162	08/552424	3-Nov-95	Granted		12-May-98	Methods for assigning subscriber units to visited gateways	Sawyer, Steven Paul; Armbruster, Peter Joseph; Moritz, Steven Harry
44883	France		9713621	30-Oct-97	Inactive	Abandoned		Digital beamforming system for interference reduction	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44883	Great Britain	2318915	9719335.3	12-Sep-97	Granted		21-Feb-01	Method and intelligent digital beam forming system for interference mitigation	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44883	Japan		09-314319	29-Oct-97	Inactive	Abandoned		METHOD AND SYSTEM OF FORMING INTELLIGENT DIGITAL BEAM FOR INTERFERENCE RELIEF	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44883	United States	5754138	08/739528	30-Oct-96	Granted		19-May-98	Method and intelligent digital beam forming system for interference mitigation	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44887	Canada	2217805	2217805	7-Oct-97	Granted		11-May-04	METHOD AND INTELLIGENT DIGITAL BEAM FORMING SYSTEM RESPONSIVE TO TRAFFIC DEMAND	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44887	Germany	19747065	19747065.3	24-Oct-97	Granted		8-Apr-10	Intelligent digital beam forming system responsive to traffic demand	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44887	France	2755329	9713672	30-Oct-97	Granted		8-Jun-07	Intelligent digital beam forming system responsive to traffic demand	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44887	Great Britain	2318947	9719392	12-Sep-97	Granted		15-Aug-01	Method and intelligent digital beam forming system responsive to traffic demand	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44887	Japan		09-314317	29-Oct-97	Inactive	Abandoned		INTELLIGENT BEAM-FORMING METHOD RESPONDING TO TRAFFIC REQUEST AND SYSTEM	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44887	United States	5754139	08/739529	30-Oct-96	Granted		19-May-98	Method and intelligent digital beam forming system responsive to traffic demand	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44893	United States	5754536	08/550319	30-Oct-95	Granted		19-May-98	Digital speech interpolation method and apparatus	Schmidt, William George
44894	United States	5754600	08/296907	29-Aug-94	Granted		19-May-98	Method and apparatus for optimum soft-decision viterbi decoding of convolutional-differential encoded QPSK data in coherent detection	Rahnama, Moe



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44895	United States	5761608	08/617723	1-Apr-96	Granted		2-Jun-98	METHOD AND APPARATUS FOR INTER-NODE HANDOFF OF A RADIO FREQUENCY COMMUNICATION UNIT	Andresen, Michael J.; Olds, Keith Andrew; Kurby, Christopher Neil; Bakke, Bradley B.
44895	United States	6073020	09/045576	20-Mar-98	Granted		6-Jun-00	Method and apparatus for inter-node handoff of a radio frequency communication unit	Andresen, Michael J.
44897	United States		08/205432	4 Mar-94	Inactive	Abandoned		Method and apparatus for bi-directional power control in a digital communication system	Grubb, Jerrold Lee; Attwood, Stanley William; Arens, John William
44897	United States	5768684	08/702851	26-Aug-96	Granted		16-Jun-98	Method and apparatus for bi-directional power control in a digital communication system	Grubb, Jerrold Lee; Attwood, Stanley William; Arens, John William
44899	European Patent Convention		96119523.7	5-Dec-96	Inactive	Abandoned		Data synchronizer phase detector and method of operation thereof	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44899	Japan		08-357124	26-Dec-96	Inactive	Abandoned		PHASE DETECTOR FOR DATA SYNCHRONIZATION DEVICE AND ITS OPERATING METHOD	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44899	United States	5774508	08/581979	2-Jan-96	Granted		30-Jun-98	Data synchronizer phase detector and method of operation thereof	Kallman, Kurt Albert; Blanchard, Scott David; Bucher, William Alexander
44902	United States	5774787	08/349575	5-Dec-94	Granted		30-Jun-98	Interference mitigation system for protecting radio astronomy and method of using same	Leopold, Raymond Joseph; Olds, Keith Andrew; Daniel, Brian Michael
44902	United States		08/886503	1-Jul-97	Inactive	Abandoned		Interference mitigation system for protecting radio astronomy and method of using same	Leopold, Raymond Joseph; Olds, Keith Andrew; Daniel, Brian Michael
44902	United States		08/886506	1-Jul-97	Inactive	Abandoned		Interference mitigation system for protecting radio astronomy and method of using same	Leopold, Raymond Joseph; Olds, Keith Andrew; Daniel, Brian Michael
44902	United States		08/886744	1-Jul-97	Inactive	Abandoned		Interference mitigation system for protecting radio astronomy and method of using same	Leopold, Raymond Joseph; Olds, Keith Andrew; Daniel, Brian Michael
44906	United States	5774806	08/523175	5-Sep-95	Granted		30-Jun-98	Method and system for dynamically balancing ring alert and attach-d detach registration traffic	Taylor, Daniel Richard; Sowles, Kenneth Lee; Edward John
44907	United States	5774856	08/537583	2-Oct-95	Granted		30-Jun-98	USER-CUSTOMIZED, LOW BIT-RATE SPEECH VOCODING METHOD AND COMMUNICATIONS FOR USE THEREWITH	Haber, William Joe; Kioncke, George Thomas; Schmidt, William George; O'Sullivan, Martin John
44908	France	2748256	9705277	29-Apr-97	Granted		29-Jan-99	Utility load e.g. satellite in low earth orbit placing method	Basuthakur, Sibnath; Laidig, David R.; Cubbage, David H.
44908	United States	5779195	08/642713	3-May-96	Granted		14-Jul-98	Satellite assembly having modular common bus components	Basuthakur, Sibnath; Laidig, David R.; Cubbage, David H.
44910	United States	5784028	08/670309	27-Jun-96	Granted		21-Jul-98	Method and apparatus for simplex delivery of signals to obstructed geographical areas	Corman, David Warren; Bertiger, Bary Robert; Cook, Dean Lawrence; Kleiner, Norbert; Kristine Patricia
44911	Great Britain	2341520	9927034	4-May-98	Inactive	Lapsed		Network for controlling steerable beams	Natarajan, Kedathur S.; Turcotte, Randy Lee; Aguirre, Sergio
44911	Japan	4494534	10-548405	4-May-98	Granted		16-Apr-10	Network and method for controlling steerable beams	Natarajan, Kedathur S.; Turcotte, Randy Lee; Aguirre, Sergio
44920	United States	5790073	08/627218	13-Mar-96	Granted		4-Aug-98	Radio telecommunication network with fraud-circumventing registration	Taylor, Daniel Richard; Vanden Heuvel, Dean Paul; Lester, Joseph Elk; Blanchard, Scott David; Wild, Johanna Alexandra
44921	Germany		19731475.9	22-Jul-97	Inactive	Abandoned		Communications network node with switched channelizer architecture	Haber, William Joe
44921	France	2752656	9709490	25-Jul-97	Granted		1-Oct-04	Communications network node with switched channelizer architecture	Haber, William Joe
44921	Great Britain	2815959	9715978.4	29-Jul-97	Granted		21-Feb-01	Communications network node with switched channelizer architecture	Haber, William Joe
44921	Italy	1293548	9700449	21-Jul-97	Inactive	Abandoned		COMMUNICATIONS NETWORK NODE WITH SWITCHED CHANNELIZER ARCHITECTURE	Haber, William Joe
44921	United States	5790529	08/691086	1-Aug-96	Granted		4-Aug-98	Communications network node with switched channelizer architecture	Haber, William Joe
44926	France		9710749	28-Aug-97	Inactive	Abandoned		Method for Receiving Ring Alert and Paging Data in an Interference Environment	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44926	Great Britain	2317078	9716302.6	4-Aug-97	Inactive	Lapsed		Method and apparatus for receiving ring alert and paging data in an interference environment	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44926	United States	5790951	08/707163	3-Sep-96	Granted		4-Aug-98	Method and apparatus for receiving ring alert and paging data in an interference environment	Taylor, Daniel Richard; Miller, Nathan West; Frederick, Robert Thomas
44929	United States	5794120	08/506306	24-Jul-95	Granted		11-Aug-98	Method and apparatus for default node operation in a multi-nodal communication system	Cutler, Jr., Victor Hawes; Helm, Jim E.; Olds, Keith Andrew
44930	Canada		2178868	12-Jun-96	Inactive	Abandoned		METHOD AND PARAMETER PREDICTION SYSTEM FOR REESTABLISHING A TEMPORARILY INTERRUPTED DYNAMIC COMMUNICATION LINK	Andresen, Michael J.; Olds, Keith Andrew



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44930	China P.R.		96108191	2-Jul-96	Inactive	Abandoned		METHOD AND PARAMETER PREDICTION SYSTEM FOR REESTABLISHING TEMPORARILY INTERRUPTED DYNAMIC COMMUNICATION LINK	Andresen, Michael J.; Olds, Keith Andrew
44930	Germany		19625394.2	25-Jun-96	Inactive	Abandoned		Method of restoring communication after interruption	Andresen, Michael J.; Olds, Keith Andrew
44930	France		9608266	3-Jul-96	Inactive	Abandoned		Method of restoring communication after interruption	Andresen, Michael J.; Olds, Keith Andrew
44930	Great Britain	2307376	9613529.8	27-Jun-96	Inactive	Lapsed		Method and parameter prediction system for reestablishing a temporarily interrupted dynamic communication link	Andresen, Michael J.; Olds, Keith Andrew
44930	India		1774/DEL/95	27-Sep-95	Inactive	Abandoned		Method of restoring communication after interruption	Andresen, Michael J.; Olds, Keith Andrew
44930	Italy		9600461	28-Jun-96	Inactive	Abandoned		Method of restoring communication after interruption	Andresen, Michael J.; Olds, Keith Andrew
44930	United States	5794155	08/498257	3-Jul-95	Granted		11-Aug-98	Method and parameter prediction system for reestablishing a temporarily interrupted dynamic communication link	Andresen, Michael J.; Olds, Keith Andrew
44938	Argentina		334187	9-Nov-95	Inactive	Abandoned		Method and apparatus for encoding speech excitation waveforms through analysis of derivative discontinuities	Bergstrom, Chad Scott; Fette, Bruce Alan; Jaskie, Cynthia Ann; Wood, Clifford; You, Sean Sungsoo
44938	Malaysia		9503610	24-Nov-95	Inactive	Abandoned		Method and apparatus for encoding speech excitation waveforms through analysis of derivative discontinuities	Bergstrom, Chad Scott; Fette, Bruce Alan; Jaskie, Cynthia Ann; Wood, Clifford; You, Sean Sungsoo
44938	Thailand		29066	4-Dec-95	Inactive	Abandoned		Method and apparatus for encoding speech excitation waveforms through analysis of derivative discontinuities	Bergstrom, Chad Scott; Fette, Bruce Alan; Jaskie, Cynthia Ann; Wood, Clifford; You, Sean Sungsoo
44938	United States	5602959	08/349638	5-Dec-94	Inactive	Lapsed		Method and apparatus for characterization and reconstruction of speech excitation waveforms	Bergstrom, Chad Scott; Fette, Bruce Alan; Jaskie, Cynthia Ann; Wood, Clifford; You, Sean Sungsoo
44938	United States	5794186	08/713620	13-Sep-96	Granted		11-Aug-98	Method and apparatus for encoding speech excitation waveforms through analysis of derivative discontinuities	Bergstrom, Chad Scott; Fette, Bruce Alan; Jaskie, Cynthia Ann; Wood, Clifford; You, Sean Sungsoo
44938	Patent Cooperation Treaty		PCT/US51995/011916	19-Sep-95	Inactive	Expired		METHOD AND APPARATUS FOR CHARACTERIZATION AND RECONSTRUCTION OF SPEECH EXCITATION WAVEFORMS	Bergstrom, Chad Scott; Fette, Bruce Alan; Jaskie, Cynthia Ann; Wood, Clifford; You, Sean Sungsoo
44944	United States	5798677	08/755937	25-Nov-96	Granted		25-Aug-98	Tunable Quasi-strip line filter and method therefor	Cook, Dean Lawrence
44951	United States	5809418	08/519221	25-Aug-95	Granted		15-Sep-98	Position-dependent call connection method and apparatus in a radio-communication system	Taylor, Daniel Richard
44952	United States	5810297	08/639590	29-Apr-96	Granted		22-Sep-98	Satellite cluster attitude/orbit determination and control system and method	Basuthakur, Sibnath; Ibanez-Melzer, Rodrigo; Daniel, Brian
44953	United States	5812086	08/672171	27-Jun-96	Granted		22-Sep-98	Method and apparatus for providing duplex communication service in geographical areas where conventional services are obstructed	Bertiger, Barry Robert; Corman, David Warren; Cook, Dean Lawrence; Maine, Kristine Patricia; Warble, Keith Vachar
44954	France	2758013	9715970	16-Dec-97	Granted		28-Jul-06	Phase related microwave antenna elements for triangular coverage	Locke, John Wesley
44954	Italy	1297101	9700755	5-Dec-97	Inactive	Abandoned		Phase related microwave antenna elements for triangular coverage	Locke, John Wesley
44954	United States	5812089	08/772646	23-Dec-96	Granted		22-Sep-98	Apparatus and method for beamforming in a triangular grid pattern	Locke, John Wesley
44957	United States	5813634	08/553790	23-Oct-95	Granted		29-Sep-98	Method for replacing failing satellites in a satellite communication system	Plizkaicoff, Joseph Camillo; Gilcman, Ronald E.
44960	Brazil		9603641-9	3-Sep-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	China P.R.	96112846.1	96112846.1	20-Sep-96	Granted		7-May-03	Admission control system and method in space-based mobile telecom system	Natarajan, Kadathur S.
44960	Germany		19634919.2	29-Aug-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	Indonesia		962033	17-Jul-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	India		1645/DEL/1996	24-Jul-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	Italy	1285886	9600614	11-Sep-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	Korea South		10-1996-0040761	19-Sep-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	Thailand		33398	24-Sep-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	Taiwan		85108690	17-Jul-96	Inactive	Abandoned		Call connection control method	Natarajan, Kadathur S.
44960	United States	5826169	08/533125	25-Sep-95	Granted		20-Oct-98	ADMISSION CONTROL SYSTEM AND METHOD IN A SPACE-BASED MOBILE TELECOMMUNICATION SYSTEM	Natarajan, Kadathur S.
44970	United States		08/258877	13-Jun-94	Inactive	Abandoned		CELLULAR COMMUNICATION SYSTEM WITH EFFICIENT CHANNEL ASSIGNMENTS AND METHOD THEREFOR	Thapa, Mukund Narain-dhami; Peterson, Kenneth Maynard; Jan, Yih Guang; Foroudi, Amir David
44970	United States	5826189	08/715113	17-Sep-96	Granted		20-Oct-98	CELLULAR COMMUNICATION SYSTEM WITH EFFICIENT CHANNEL ASSIGNMENTS AND METHOD THEREFOR	Thapa, Mukund Narain-dhami; Peterson, Kenneth Maynard; Jan, Yih Guang; Foroudi, Amir David
44972	European Patent Convention		96100036.1	3-Jan-96	Inactive	Abandoned		EMERGENCY HANDOFF METHOD OF REDIRECTING CALLS IN A SATELLITE COMMUNICATION SYSTEM	Krutz, Michael William; Taylor, Daniel Richard; Bakke, Bradley B.

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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
44972	United States		08/368450	4-Jan-95	Inactive	Abandoned		EMERGENCY HANDOFF METHOD OF REDIRECTING CALLS IN A SATELLITE COMMUNICATION SYSTEM	Krutz, Michael William; Tayloe, Daniel Richard; Bakke, Bradley B.
44972	United States	5826190	06/801322	18-Feb-97	Granted		20-Oct-98	EMERGENCY HANDOFF METHOD OF REDIRECTING CALLS IN A SATELLITE COMMUNICATION SYSTEM	Krutz, Michael William; Tayloe, Daniel Richard; Bakke, Bradley B.
44975	United States	5828952	08/578256	26-Dec-95	Granted		27-Oct-98	System and method for executing signalling cut-through	Sawyer, Steven Paul
44976	Canada		2235230	17-Apr-98	Inactive	Abandoned		Pulse load averaging power converter	Myers, Ronald Gene
44976	Finland		980913	24-Apr-98	Inactive	Abandoned		Pulse load averaging power converter	Myers, Ronald Gene
44976	Great Britain	2324916	9808908.9	28-Apr-98	Inactive	Lapsed		Pulse load averaging power converter	Myers, Ronald Gene
44976	Sweden		9801389-9	22-Apr-98	Inactive	Abandoned		Pulse load averaging power converter	Myers, Ronald Gene
44976	United States	5831420	08/842101	28-Apr-97	Granted		3-Nov-98	Pulse load averaging power converter	Myers, Ronald Gene
44981	United States	5838210	08/980566	1-Dec-97	Granted		17-Nov-98	Method and apparatus for generating a modulated signal	Midya, Pallab; Jackson, Robert Michael; Anderson, Dale
44982	United States	5842126	08/774773	30-Dec-96	Granted		24-Nov-98	Expedited home gateway access method and system	Sawyer, Steven Paul; Armbruster, Peter Joseph
44983	Germany		19702153	22-Jan-97	Inactive	Abandoned		INTEGRATED MICROSTRIP TO STRIP LINE STRATISITION FORMING METHOD	Buer, Kenneth Vern; Corman, David Warren
44983	Japan		09-063991	4-Mar-97	Inactive	Abandoned		INTEGRATION TRANSIT STRUCTURE FROM MICROSTRIP TO SUSPENSION STRIP LINE AND ITS MANUFACTURE	Buer, Kenneth Vern; Corman, David Warren
44983	United States	5844450	08/611233	5-Mar-96	Granted		1-Dec-98	INTEGRATED MICROSTRIP TO SUSPENDED STRIPLINE TRANSITION STRUCTURE AND METHOD OF FABRICATION	Buer, Kenneth Vern; Corman, David Warren
44986	United States	5852779	08/578402	26-Dec-95	Granted		22-Dec-98	System and method for having a single gateway set-up and maintain local signalling connections	Sawyer, Steven Paul
44987	Canada		2217354	6-Oct-97	Inactive	Abandoned		METHOD AND INTELLIGENT DIGITAL BEAM FORMING SYSTEM WITH IMPROVED SIGNAL QUALITY COMMUNICATIONS	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Germany		19746774.1	23-Oct-97	Inactive	Abandoned		Digital beam forming system for an antenna array	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Finland		974102	30-Oct-97	Inactive	Abandoned		Digital beam forming system for an antenna array	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	France		9713623	30-Oct-97	Inactive	Abandoned		Digital beam forming system for an antenna array	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Great Britain	2318914	9719331.2	12-Sep-97	Granted		9-May-01	METHOD AND INTELLIGENT DIGITAL BEAM FORMING SYSTEM WITH IMPROVED SIGNAL QUALITY COMMUNICATIONS	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Italy	1295416	9700603	8-Oct-97	Granted		12-May-99	Digital beam forming system for an antenna array	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Japan		09-314318	29-Oct-97	Inactive	Abandoned		INTELLIGENT BEAM-FORMING METHOD TO IMPROVE COMMUNICATION SIGNAL QUALITY AND SYSTEM THEREFOR	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Sweden	520194	9703934-1	29-Oct-97	Granted		10-Jun-03	Digital beam forming system for an antenna array	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	Singapore		9703696-6	8-Oct-97	Inactive	Abandoned		Method and intelligent digital beam forming system with improved signal quality communications	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	United States	5856804	08/739645	30-Oct-96	Granted		5-Jan-99	METHOD AND INTELLIGENT DIGITAL BEAM FORMING SYSTEM WITH IMPROVED SIGNAL QUALITY COMMUNICATIONS	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44987	United States		09/175780	20-Oct-98	Inactive	Abandoned		METHOD AND INTELLIGENT DIGITAL BEAM FORMING SYSTEM WITH IMPROVED SIGNAL QUALITY COMMUNICATIONS	Turcotte, Randy Lee; Ma, Stephen Chih-Hung; Aguirre, Sergio
44998	United States	5860858	08/703425	26-Aug-96	Granted		12-Jan-99	Method and apparatus for routing signals through a communication system having multiple destination nodes	Daniel, Brian Michael; Leopold, Raymond Joseph; Olds, Keith Andrew
44998	Patent Cooperation Treaty		PCT/US1997/013510	31-Jul-97	Inactive	Expired		Method and apparatus for routing communication signals through a system with multiple destination nodes	Daniel, Brian Michael; Leopold, Raymond Joseph; Olds, Keith Andrew
45000	United States	5862244	08/502039	13-Jul-95	Granted		19-Jan-99	Satellite traffic reporting system and methods	Kleiner, Norbert; Emmons, Jr., Thomas Peter; Honeyer, David Charles
45001	United States	5862478	08/509373	31-Jul-95	Granted		19-Jan-99	Method and system for managing the initiation of new traffic in a resource limited communication system	Cutler, Jr., Victor Hawes; Davieau, Gerald Joseph
45002	United States	5862479	08/775073	27-Dec-95	Granted		19-Jan-99	Space-based communication system and method with continuous channel reuse	Cutler Jr., Victor Hawes; Olds, Keith Andrew; Davieau, Gerald Joseph
45003	United States	5864131	08/767557	16-Dec-96	Granted		26-Jan-99	System and method for accurate geolocation of images	Wagers, Robert Shelby; Cafasso, Mary-Angela Giovanna

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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45004	United States	5867123	08/878511	19-Jun-97	Granted		2-Feb-99	Phased array radio frequency (RF) built-in-test equipment (BITE) apparatus and method of operation therefor	Geyh, Edward; Sikina, Thomas Y.; Adhami, Tariq R.; Schuss, Jack J.
45005	Germany		19751869.9	22-Nov-97	Inactive	Abandoned		Realtime channel management in a radio telecommunication system	Olds, Keith Andrew; Davleau, Gerald Joseph
45005	France		9716487	24-Dec-97	Inactive	Abandoned		Real time channel management in a radio telecommunication system	Olds, Keith Andrew; Davleau, Gerald Joseph
45005	Great Britain		9723417.3	6-Nov-97	Inactive	Abandoned		METHOD AND SYSTEM FOR REAL-TIME CHANNEL MANAGEMENT IN A RADIO TELECOMMUNICATION SYSTEM	Olds, Keith Andrew; Davleau, Gerald Joseph
45005	United States	5867789	08/777434	30-Dec-96	Granted		2-Feb-99	Method and system for real-time channel management in a radio telecommunications system	Olds, Keith Andrew; Davleau, Gerald Joseph
45009	United States	5873029	08/802085	19-Feb-97	Granted		16-Feb-99	High dynamic range millimeter wave power detector with temperature compensation	Grondahl, Christopher David; Corman, David Warren; Buer, Kenneth Vern
45010	United States	5874913	08/705486	29-Aug-96	Granted		23-Feb-99	Method and apparatus to compensate for Doppler frequency shifts in a satellite communication system	Blanchard, Scott David; Joseph Olk
45011	Belgium		9700988	5-Dec-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Brazil		9705489-5	18-Nov-97	Inactive	Abandoned		Hybrid constellation satellite communication systems and methods with efficient signaling and control	Olds, Keith Andrew
45011	Canada		2222238	25-Nov-97	Inactive	Abandoned		Hybrid constellation satellite communication systems and methods with efficient signaling and control	Olds, Keith Andrew
45011	Switzerland		2702/97	21-Nov-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	China P.R.	97125346.3	97125346.3	4-Dec-97	Granted		14-May-03	Hybrid constellation satellite communication systems and methods with efficient signaling and control	Olds, Keith Andrew
45011	Germany		19752876.7	28-Nov-97	Inactive	Abandoned		Hybrid constellation satellite communication systems and methods with efficient signaling and control	Olds, Keith Andrew
45011	France	2756992	9715285	4-Dec-97	Granted		10-Oct-03	Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Great Britain	2320163	9722726.8	29-Oct-97	Granted		28-Mar-01	Hybrid constellation satellite communication systems and methods with efficient signaling and control	Olds, Keith Andrew
45011	Israel		121906	7-Oct-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	India		2952/DEL/1997	14-Oct-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Italy	1796120	9700695	12-Nov-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Japan		09-348506	3-Dec-97	Inactive	Abandoned		Satellite communication system for hybrid satellite GROUP and method provided with efficient signaling and control	Olds, Keith Andrew
45011	Korea South		10-1997-0065816	4-Dec-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Nigeria		360/97	4-Dec-97	Inactive	Abandoned		HYBRID CONSTELLATION SATELLITE AND METHODS WITH EFFICIENT SIGNALING AND CONTROL	Olds, Keith Andrew
45011	Netherlands		1007685	3-Dec-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Russian Federation		97121430/09	4-Dec-97	Inactive	Abandoned		Hybrid constellation satellite communication system	Olds, Keith Andrew
45011	Taiwan		86116218	30-Oct-97	Inactive	Abandoned		Hybrid constellation satellite communication systems and methods with efficient signaling and control	Olds, Keith Andrew
45011	United States	5887257	08/761093	5-Dec-96	Granted		23-Mar-99	HYBRID CONSTELLATION SATELLITE COMMUNICATION SYSTEMS AND METHODS WITH EFFICIENT SIGNALING AND CONTROL	Olds, Keith Andrew
45029	United States	5889492	08/690137	31-Jul-96	Granted		30-Mar-99	Method and apparatus for an acquisition-aided Geo-locating subscriber unit	Kurby, Christopher Neil; King, Thomas Michael
45030	Australia	685363	76658/96	28-Oct-96	Inactive	Lapsed		Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	China P.R.	96191763.6	96191763.6	28-Oct-96	Granted		26-Jun-02	Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	Germany	19581190	19681190.2	28-Oct-96	Granted		17-Mar-05	Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	Finland	110441	973201	28-Oct-96	Inactive	Lapsed		Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45030	Great Britain	2313021	9714448.9	28-Oct-96	Granted		8-Sep-99	Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	Korea South	10-0254119	10-1997-0705308	28-Oct-96	Granted		29-Jan-00	Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	Sweden	517903	97028427	28-Oct-96	Granted		30-Jul-02	Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	United States	5892811	08/566753	4-Dec-95	Granted		6-Apr-99	Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45030	Patent Cooperation Treaty		PCT/US1996/017287	28-Oct-96	Inactive	Expired		Radio telecommunication network and method for unobtrusive call interception via transcoder bypass	Armbruster, Peter Joseph; Wild, Johanna Alexandra
45039	Canada		2178897	12-Jun-96	Inactive	Abandoned		INDEPENDENT SATELLITE-BASED COMMUNICATIONS SYSTEMS SHARING COMMON FREQUENCY SPECTRUM AND METHOD OF OPERATION THEREOF	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	China P.R.		96110300	25-Jul-96	Inactive	Abandoned		INDEPENDENT SATELLITE-BASED COMMUNICATIONS SYSTEMS SHARING COMMON FREQUENCY SPECTRUM AND METHOD OF OPERATION THEREOF	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	Germany		19629744.3	23-Jul-96	Inactive	Abandoned		Independent satellite-based communications systems sharing common frequency spectrum and method of operation thereof	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	France	2737625	9609634	31-Jul-96	Granted		21-Sep-01	INDEPENDENT SATELLITE-BASED COMMUNICATIONS SYSTEM SHARING COMMON FREQUENCY SPECTRUM AND METHOD OF OPERATION THEREOF	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	Great Britain	2304003	9615331.7	22-Jul-96	Inactive	Lapsed		Independent satellite-based communications systems sharing common frequency spectrum and method of operation thereof	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	Great Britain	2341762	9927941.6	22-Jul-96	Inactive	Lapsed		Independent satellite-based communications systems sharing common frequency spectrum and method of operation thereof	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	India	197063	1665/DEL/96	25-Jul-96	Inactive	Abandoned		INDEPENDENT SATELLITE-BASED COMMUNICATIONS SYSTEM SHARING COMMON FREQUENCY SPECTRUM AND METHOD OF OPERATION THEREOF	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	India		1910/DEL/2004	4-Oct-04	Inactive	Abandoned		Independent satellite-based communications systems sharing common frequency spectrum and method of operation thereof	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	United States	5894590	08/509677	31-Jul-95	Granted		13-Apr-99	Independent satellite-based communications systems sharing common frequency spectrum and method of operation thereof	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45039	United States	6088572	09/027790	23-Feb-98	Granted		11-Jul-00	Independent satellite-based communications systems sharing common frequency spectrum and method of operation thereof	Vatt, Gregory Barton; Diekelman, Dennis Paul; Major, John E.
45049	China P.R.		96105078	22-Apr-96	Inactive	Abandoned		METHOD AND EQUIPMENT OF RESPONDING ROUTE SELECTION CONTROL	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	France	2733380	9605147	24-Apr-96	Granted		3-Oct-97	Responsive routing control method and apparatus	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	Great Britain	2300332	9608193	19-Apr-96	Granted		23-Feb-00	Responsive routing control method and apparatus	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	India	218239	706/DEL/1996	29-Mar-96	Inactive	Abandoned		Method and equipment of responding route selection control	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	Italy	1285179	9600242	17-Apr-96	Inactive	Abandoned		Responsive routing control method and apparatus	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	Japan	3602648	08-127849	24-Apr-96	Granted		1-Oct-04	Responsive routing control method and apparatus	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	United States		08/426999	24-Apr-95	Inactive	Abandoned		Responsive routing control method and apparatus	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45049	United States	5903545	09/801334	19-Feb-97	Granted		11-May-99	Responsive routing control method and apparatus	Sabourin, Donald John; Dorin, Jeffrey Stuart; Happ III, Henry Joseph
45057	United States		08/537383	2-Oct-95	Inactive	Abandoned		Paging system employing delivery schedule combining and method of operation thereof	Olds, Keith Andrew; Smith, Patrick O'Connor; Gregg, Ralph Charles
45057	United States	5905443	08/925170	8-Sep-97	Granted		18-May-99	Paging system employing delivery schedule combining and method of operation thereof	Olds, Keith Andrew; Smith, Patrick O'Connor; Gregg, Ralph Charles
45059	Austria	655871	94117930.1	14-Nov-94	Inactive	Lapsed		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45059	Belgium	655871	94117930.1	14-Nov-94	Inactive	Lapsed		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Canada		2134395	26-Oct-94	Inactive	Abandoned		METHOD AND APPARATUS FOR MANAGEMENT OF AUTOMATICALLY INITIATED COMMUNICATION	Olds, Keith Andrew
45059	Switzerland	655871	94117930.1	14-Nov-94	Inactive	Lapsed		METHOD AND APPARATUS FOR MANAGEMENT OF AUTOMATICALLY INITIATED COMMUNICATION	Olds, Keith Andrew
45059	Germany	69416646.4	94117930.1	14-Nov-94	Granted		24-Feb-99	Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Denmark	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	European Patent Convention	655871	94117930.1	14-Nov-94	Inactive	Validated		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Spain	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	France	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Great Britain	655871	94117930.1	14-Nov-94	Granted		24-Feb-99	Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Greece	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Ireland	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Italy	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Japan		06-314155	24-Nov-94	Inactive	Abandoned		METHOD AND APPARATUS FOR MANAGING COMMUNICATION AUTOMATICALLY STARTED	Olds, Keith Andrew
45059	Luxembourg	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Monaco	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Netherlands	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Portugal	655871	94117930.1	14-Nov-94	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Russian Federation		84042249/09	24-Nov-94	Inactive	Abandoned		METHOD AND APPARATUS FOR MANAGING COMMUNICATION AUTOMATICALLY STARTED	Olds, Keith Andrew
45059	Sweden	655871	94117930.1	14-Nov-94	Inactive	Lapsed		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	Ukraine		94119065	24-Nov-94	Inactive	Abandoned		METHOD AND APPARATUS FOR MANAGING COMMUNICATION AUTOMATICALLY STARTED	Olds, Keith Andrew
45059	United States		08/157513	26-Nov-93	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	United States		08/563244	27-Nov-95	Inactive	Abandoned		Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45059	United States	5905957	08/937328	20-Sep-97	Granted		18-May-99	Method and apparatus for management of automatically initiated communication	Olds, Keith Andrew
45093	United States	5918175	08/755677	25-Nov-96	Granted		29-Jun-99	Method and apparatus for registering mobile user groups	Taylor, Daniel Richard; Miller, Nathan West; Sowles, Kenneth Lee; Frederick, Robert Thomas; Sangha, Baldev Kaur
45094	United States	5918176	08/652219	23-May-96	Granted		29-Jun-99	Method and apparatus for controlling link quality in a wireless communication system	Arrington Jr., Arthur Edward; Hogberg, Shawn Wesley; Rebertus, Dennis Wayne
45095	United States		08/523421	5-Sep-95	Inactive	Abandoned		Method and apparatus for message delivery in a communication system having orbiting transmitters	Taylor, Daniel Richard
45095	United States	5920803	08/967231	29-Oct-97	Granted		6-Jul-99	Method and apparatus for message delivery in a communication system having orbiting transmitters	Taylor, Daniel Richard



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45097	Canada		2195171	15-Jan-97	Inactive	Abandoned		METHOD AND APPARATUS FOR COMMUNICATIONS HAND-OFF BETWEEN MULTIPLE SATELLITE SYSTEMS	Armbruster, Peter Joseph; Sowles, Kenneth Lee; Tayloe, Daniel Richard
45097	Italy	1290954	9700116	3-Mar-97	Inactive	Abandoned		METHOD AND APPARATUS FOR COMMUNICATIONS HAND-OFF BETWEEN MULTIPLE SATELLITE SYSTEMS	Armbruster, Peter Joseph; Sowles, Kenneth Lee; Tayloe, Daniel Richard
45097	Japan		09-098348	1-Apr-97	Inactive	Abandoned		METHOD AND DEVICE FOR COMMUNICATION HAND-OFF AMONG A PLURALITY OF SATELLITE SYSTEMS	Armbruster, Peter Joseph; Sowles, Kenneth Lee; Tayloe, Daniel Richard
45097	Mexico		9701130	13-Feb-97	Inactive	Abandoned		METHOD AND DEVICE FOR COMMUNICATION HAND-OFF AMONG A PLURALITY OF SATELLITE SYSTEMS	Armbruster, Peter Joseph; Sowles, Kenneth Lee; Tayloe, Daniel Richard
45097	United States	5920804	08/626589	2-Apr-96	Granted		6-Jul-99	Method and apparatus for communications hand-off between multiple satellite systems	Armbruster, Peter Joseph; Sowles, Kenneth Lee; Tayloe, Daniel Richard
45102	United States	5923289	08/901745	28-Jul-97	Granted		13-Jul-99	Modular array and phased array antenna system	Buer, Kenneth Vern; Locke, John Wesley; Kreutel, R. William; Chavazzi, Paul Adrian; DiFonzo, Daniel Francis
45103	Brazil		9733608	18-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	China P.R.		97120401.2	29-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Germany		19740837	17-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Finland		973851	30-Sep-97	Inactive	Abandoned		Adaptive routing in a satellite based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	France	2754122	9711801	23-Sep-97	Granted		2-Sep-05	Adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Great Britain		9717724	22-Aug-97	Inactive	Abandoned		Adaptive routing in a satellite based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Indonesia		973141	10-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	India		2433/DEL/97	28-Aug-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Italy	1295399	9700579	24-Sep-97	Granted		12-May-99	Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Japan		09-278194	25-Sep-97	Inactive	Abandoned		ADAPTIVE COMMUNICATION DISTRIBUTION METHOD AND DEVICE IN SATELLITE COMMUNICATION SYSTEM	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Korea South		10-1997-0051241	30-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Sweden		9703518-2	30-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Singapore		9703203-1	2-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Thailand		39291	27-Aug-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	Taiwan	95912	86113106	10-Sep-97	Inactive	Abandoned		Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45103	United States	5924014	08/724607	30-Sep-96	Granted		13-Jul-99	Method and apparatus for adaptive routing in a satellite-based communication system	Vanden Houvel, Dean Paul; McKay, Brent Matthew; Schaefer, Bradley Robert; Bishop Jr., James William
45119	United States	5925092	08/759203	2-Dec-96	Granted		20-Jul-99	SATELLITE CLUSTER WITH SYNCHRONIZED PAYLOAD PROCESSORS AND METHOD FOR USE IN SPACE-BASED SYSTEMS	Swan, Peter Alfred; Haber, William Joe; Olds, Keith Andrew
45120	United States	5926767	08/773294	26-Dec-96	Granted		20-Jul-99	Method and system reestablishing a temporarily interrupted dynamic communication link under intermittent fade conditions	Olds, Keith Andrew; Andrazen, Michael J.
45121	United States	5929809	09/056178	7-Apr-98	Granted		27-Jul-99	Method and system for calibration of sectionally assembled phased array antennas	Erlick, John Richard; Gross; Jonathan Henry
45122	Canada		2201154	28-Jul-95	Inactive	Abandoned		Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45122	China P.R.		95195466	28-Jul-95	Inactive	Abandoned		Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	Germany	19581784.2	19581784.2	28-Jul-95	Granted		15-Dec-05	Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	European Patent Convention		95928177.5	28-Jul-95	Inactive	Abandoned		Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	Great Britain	2309361	9706215.2	28-Jul-95	Granted		12-May-99	Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	India	192776	1602	29-Aug-95	Inactive	Abandoned		DEVICE TO TRANSMIT CALL WARNINGS OVER SATELLITE COMMUNICATION SYSTEM AND METHOD OF ITS EMPLOYMENT	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	Korea South	10-0350339	10-1997-0702167	3-Apr-97	Granted		14-Aug-02	Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	Russian Federation		97107001/09	28-Jul-95	Inactive	Abandoned		DEVICE TO TRANSMIT CALL WARNINGS OVER SATELLITE COMMUNICATION SYSTEM AND METHOD OF ITS EMPLOYMENT	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	United States	5930679	08/317082	3-Oct-94	Granted		27-Jul-99	SATELLITE BASED RING ALERT APPARATUS AND METHOD OF USE	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45122	Patent Cooperation Treaty		PCT/US1995/009537	28-Jul-95	Inactive	Expired		Satellite-based ring alert apparatus and method of use	Olds, Keith Andrew; Vatt, Gregory Barton; Kurby, Christopher Neil
45132	European Patent Convention		98918796.8	28-Apr-98	Inactive	Abandoned		SECURE MULTINUMBER SIM CARD AND METHOD	Taylor, Daniel Richard
45132	United States	5933785	08/859194	20-May-97	Granted		3-Aug-99	Telephone and method for concurrent registration of two identification numbers using multi-number sim card	Taylor, Daniel Richard
45132	Patent Cooperation Treaty		PCT/US1998/008474	28-Apr-98	Inactive	Expired		SECURE MULTINUMBER SIM CARD AND METHOD	Taylor, Daniel Richard
45135	France	2755340	9713486	28-Oct-97	Granted		2-Aug-02	Method of Tracking Dynamic Communication Parameters during a Link Interruption	Andresen, Michael J.
45135	Great Britain	2318948	9718442.7	15-Sep-97	Granted		15-Nov-00	Method and system of tracking dynamic communication parameters during a link interruption	Andresen, Michael J.
45135	United States	5937349	08/740455	29-Oct-96	Granted		10-Aug-99	Method and system of tracking dynamic communication parameters during a link interruption	Andresen, Michael J.
45138	Canada	2266720	1266720	28-Apr-98	Granted		14-Nov-06	Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45138	China P.R.	98801043.7	98801043.7	28-Apr-98	Inactive	Lapsed		Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45138	Germany		19881109	28-Apr-98	Inactive	Abandoned		Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45138	France	2767000	9809405	23-Jul-98	Granted		31-Dec-99	Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45138	Great Britain	2332829	9905768.9	28-Apr-98	Inactive	Lapsed		Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45138	Japan		11-509778	28-Apr-98	Inactive	Abandoned		Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45138	United States	5940379	08/898825	23-Jul-97	Granted		17-Aug-99	Apparatus and method for using multiple spreading codes for data transmission in a satellite communication system	Startup, James William; Haber, William Joe
45138	Patent Cooperation Treaty		PCT/US1998/008475	28-Apr-98	Inactive	Expired		Multiple spreading codes in satellite communication systems	Startup, James William; Haber, William Joe
45146	United States	5945946	08/943707	3-Oct-97	Granted		31-Aug-99	Scanning array antenna using rotating plates and method of operation therefor	Munger, Archer David
45147	Canada		2259331	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	China P.R.		98800543.3	8-Apr-98	Inactive	Abandoned		Communication blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Germany		19880706.6	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	European Patent Convention		98918082.3	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Finland		982766	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	France	2762731	9805150	24-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio



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45147	Great Britain	2330731	9827960.7	8-Apr-98	Inactive	Lapsed		Communications Blockage Environment Response Method And Apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Israel	127610	127610	8-Apr-98	Granted		1-Oct-02	Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	India		1033/DEL/98	22-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Italy	1299438	9800270	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Japan		10-547016	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Korea South	10-0555067	10-1998-0710982	8-Apr-98	Granted		17-Feb-06	METHOD AND APPARATUS TO RESPOND TO BLOCKAGE ENVIRONMENT IN COMMUNICATION SYSTEM	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Norway	986069	986069	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Sweden		9804526-3	8-Apr-98	Inactive	Abandoned		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	United States	5946603	08/845487	25-Apr-97	Granted		31-Aug-99	Method and apparatus to respond to a blockage environment in a communication system	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45147	Patent Cooperation Treaty		PCT/US1998/007180	8-Apr-98	Inactive	Expired		Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45164	Taiwan	109615	87106368	24-Jun-98	Granted		11-Dec-99	Communications blockage environment response method and apparatus	Ibanez-Meier, Rodrigo; Turcotte, Randy Lee; Astrom, Richard Lawrence; Aguirre, Sergio
45165	United States	5949312	08/961284	30-Oct-97	Granted		7-Sep-99	Suspended monolithic microwave integrated circuit and method of manufacture	Buer, Kenneth Vern; Corman, David Warren; Dendy, Deborah Sue; Clark II, James Roger
45166	United States	5949766	08/777563	30-Dec-96	Granted		7-Sep-99	Ground device for communicating with an elevated communication hub and method of operation thereof	Ibanez-Meier, Rodrigo; Kapoor, Vijay; Aguirre, Sergio
45167	United States	5950132	09/010299	21-Dec-97	Granted		7-Sep-99	Method and apparatus for providing communication services for communication system users having variable speed	Armbruster, Peter J.; Sowles, Ken; Neyens, Edward John
45168	United States	5953664	08/775231	30-Dec-96	Granted		14-Sep-99	Expedited visited gateway access methods and systems	Sawyer, Steven Paul; Armbruster, Peter Joseph
45169	Canada		2229716	16-Feb-98	Inactive	Abandoned		ACTIVE SPACECRAFT THERMAL CONTROL SYSTEM AND METHOD	Allen, Robert David; Mizer, Daniel David; Basuthakur, Sibnath
45169	China P.R.		98107359.X	27-Apr-98	Inactive	Abandoned		Temp. control system and method for active cosmonautic vehicle	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45169	Germany		19815941.2	9-Apr-98	Inactive	Abandoned		Active thermal load control system for spacecraft	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45169	France		2767114	27-Apr-98	Granted		8-Jun-01	Active thermal load control system for spacecraft	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45169	Great Britain		2327928	15-Apr-98	Granted		22-Aug-01	Spacecraft Having Active Thermal Control System	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45169	Italy		1299381	13-Mar-98	Inactive	Abandoned		Active thermal load control system for spacecraft	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45169	Japan		4080058	6-Apr-98	Granted		15-Feb-08	ACTIVE THERMAL CONTROL SYSTEM FOR SPACE AIRCRAFT AND METHOD THEREOF	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45169	United States		5954298	08/842106	Granted		21-Sep-99	Active spacecraft thermal control system and method	Basuthakur, Sibnath; Allen, Robert David; Miller, Daniel David
45177	United States		5956150	09/017569	Granted		21-Sep-99	Laser mount positioning device and method of using same	Kanno, Mark M.
45178	United States		5956639	08/606952	Granted		21-Sep-99	Method and apparatus for registering mobile user groups with a radio telecommunication system	Armbruster, Peter Joseph; Sowles, Kenneth Lee; Bishop Jr., James William
45179	United States		5956644	08/901121	Granted		21-Sep-99	Multiple-user communication unit and method for operating in a satellite communication system	Miller, Nathan West; Armbruster, Peter J.; Tayloe, Daniel Richard
45180	United States		5959578	09/005389	Granted		28-Sep-99	Antenna architecture for dynamic beam-forming and beam reconfigurability with space feed	Kreutel Jr., Randall William
45181	Brazil		9911543	19-Mar-99	Inactive	Abandoned		Method for unobtrusive interception of satellite communication	Mattera, Michael Mark
45181	European Patent Convention		99918432.8	19-Mar-99	Inactive	Abandoned		Method for unobtrusive interception of satellite communication	Mattera, Michael Mark
45181	Japan		2000-557565	19-Mar-99	Inactive	Abandoned		Method for unobtrusive interception of satellite communication	Mattera, Michael Mark
45181	Korea South		10-0362134	10-2000-7035085	Granted		11-Nov-02	Method for unobtrusive interception of satellite communication	Mattera, Michael Mark



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45181	United States	5960324	09/109240	30-Jun-98	Granted		28-Sep-99	Method for unobtrusive interception of satellite communication	Matera, Michael Mark
45181	Patent Cooperation Treaty		PCT/US1999/006167	19-Mar-99	Inactive	Expired		Method for unobtrusive interception of satellite communication	Matera, Michael Mark
45187	United States	5961626	08/949085	10-Oct-97	Granted		5-Oct-99	Method and processing interface for transferring data between host systems and a packetized processing system	Harrison, David Michael; II, Alison; McCutcheon, Daddario
45188	United States	5963846	08/829298	31-Mar-97	Inactive	Lapsed		Method and system for repeating pages	Kurby, Christopher Neil
45189	France	2758025	9716302	23-Dec-97	Granted		29-Oct-04	System and method for enhancing ring alert terminations	Taylor, Daniel Richard; Miller, Nathan West; Sowles, Kenneth Lee; Frederick, Robert
45189	Great Britain	2320854	9723408.2	6-Nov-97	Granted		25-Jul-01	System And Method For Enhancing Ring Alert Terminations	Taylor, Daniel Richard; Miller, Nathan West; Sowles, Kenneth Lee; Frederick, Robert
45189	United States	5974316	08/777160	26-Dec-96	Inactive	Lapsed		System and method for enhancing ring alert terminations	Taylor, Daniel Richard; Miller, Nathan West; Sowles, Kenneth Lee; Frederick, Robert
45192	United States	5977907	09/017570	2-Feb-98	Granted		2-Nov-99	Method and system for antenna pattern synthesis based on geographical distribution of subscribers	Gross, Jonathan H
45193	United States	5978653	08/850543	2-May-97	Granted		2-Nov-99	Method and apparatus for providing additional resources in a satellite communication system	Taylor, Ronald Fredrick; Blanchard, Scott David; Jeffers, Patrick David
45194	United States	5986518	09/109282	30-Jun-98	Inactive	Lapsed		Distributed MMIC active quadrature hybrid and method for providing in phase and quadrature-phase signals	Dougherty, Richard Matthew
45195	United States	5987325	08/858619	19-May-97	Inactive	Lapsed		Multiple smart card phone and method	Taylor, Daniel Richard
45196	United States	5990712	08/943439	3-Oct-97	Inactive	Lapsed		Harmonic generator	Corman, David Warren; Buer, Kenneth Vern; Agge Jr., Bill Tabano
45197	Germany		19731702.2	23-Jul-97	Inactive	Abandoned		Telecommunication system producing positioning data service	Kurby, Christopher Neil
45197	Italy	1293541	9700438	16-Jul-97	Granted		1-Mar-99	Telecommunication system producing positioning data service	Kurby, Christopher Neil
45197	Sweden	520753	9702784.1	23-Jul-97	Granted		19-Aug-03	Telecommunication system producing positioning data service	Kurby, Christopher Neil
45197	Sweden	522147	0202856.7	27-Sep-02	Inactive	Lapsed	20-Jan-04	Telecommunication system producing positioning data service	Kurby, Christopher Neil
45197	United States	5999175	08/690097	31-Jul-96	Granted		7-Dec-99	Method and apparatus for a global positioning data service	Kurby, Christopher Neil
45202	United States	5999797	08/963544	3-Nov-97	Granted		7-Dec-99	Method and apparatus for providing private global networks in a satellite communication system	Zancho, William Frank; Bishop Jr., James William; Krutz, Michael William
45203	United States	6002929	08/939890	29-Sep-97	Granted		14-Dec-99	Exchange which extends SIM based authentication and method therefor	Bishop Jr., James William; Magee, Steve; Miller, Nathan; Robert T Frederick
45204	France	2755663	9714078	10-Nov-97	Granted		10-Mar-00	Actively controlled thermal panel on a space vehicle	Basuthakur, Sibnath; Bonello, David Paul; Allen, Robert David
45204	Great Britain	2319360	9723114.6	29-Oct-97	Granted		23-Feb-00	Actively Controlled Thermal Panel And Method Therefor	Basuthakur, Sibnath; Bonello, David Paul; Allen, Robert David
45204	United States	6003817	09/746587	12-Nov-96	Granted		21-Dec-99	Actively controlled thermal panel and method therefor	Basuthakur, Sibnath; Bonello, David Paul; Allen, Robert David
45207	United States	6005458	09/086605	29-May-98	Granted		21-Dec-99	High density connector and method therefor	Buer, Kenneth Vern; Corman, David Warren; Gross, Joel L
45208	France		9806679	27-May-98	Inactive	Abandoned		Method and apparatus for providing billing services for a mobile group of communication system users	Miller, Nathan West; Taylor, Daniel Richard; Sowles, Kenneth Lee; Sangha, Baldev; Frederick, Robert Thomas
45208	Great Britain	2328120	9810831.9	21-May-98	Inactive	Abandoned		Method And Apparatus For Providing Billing Services For A Mobile Group Of Communication System Users	Miller, Nathan West; Taylor, Daniel Richard; Sowles, Kenneth Lee; Sangha, Baldev; Frederick, Robert Thomas
45208	United States	6006084	08/863595	27-May-97	Granted		21-Dec-99	METHOD AND APPARATUS FOR PROVIDING BILLING SERVICES FOR A MOBILE GROUP OF COMMUNICATION SYSTEM USERS	Miller, Nathan West; Taylor, Daniel Richard; Sowles, Kenneth Lee; Sangha, Baldev; Frederick, Robert
45211	United States	6007027	08/970670	14-Nov-97	Granted		28-Dec-99	METHOD AND APPARATUS FOR EARLY SERVICE USING PHASED SATELLITE DEPLOYMENT	Diekelman, Dennis Paul; Kroncke, George Thomas; Olds, Keith Andrew
45212	United States	6016122	09/088197	1-Jun-98	Granted		18-Jan-00	Phased array antenna using piezoelectric actuators in variable capacitors to control phase shifters and method of manufacture thereof	Malone, Hugh Robert; Dandy, Deborah Sue; Cook, Dean Lawrence; Phillips, James R.; Komrmusch, Richard S
45212	Patent Cooperation Treaty		PCT/US1999/011859	28-May-99	Inactive	Expired		PHASED ARRAY ANTENNA USING PIEZOELECTRIC ACTUATORS	Malone, Hugh Robert; Dandy, Deborah Sue; Cook, Dean Lawrence
45214	United States	6018315	09/072054	4-May-98	Granted		25-Jan-00	Method and system for attitude sensing using monopulse GPS processing	Ince, Michael Dane; Smith, Robert H
45215	Japan		2000-071553	15-Mar-00	Inactive	Abandoned		CURRENT SOURCE AND METHOD THEREFOR	Jurek, Kevin J; Mathes, William O.; Patel, Lalit O.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45215	United States	6020730	09/273999	22-Mar-99	Granted		1-Feb-00	Current source and method thereof	Iurek, Kevin J.; Mathes, William D.; Patel, Lalit O.
45217	United States	6037891	09/027759	23-Feb-98	Granted		14-Mar-00	Low power serial analog-to-digital converter	Griph, Richard Steven
45218	Belgium	1013011	98930339.1	17-Jun-98	Granted		17-Aug-05	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Canada		2299596	17-Jun-98	Inactive	Abandoned		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Switzerland	1013011	98930339.1	17-Jun-98	Granted		17-Aug-05	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	China P.R.		98808855.X	17-Jun-98	Inactive	Abandoned		METHOD AND APPARATUS FOR LASER COMMUNICATION THROUGH A LOSSY MEDIUM	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Germany	69831259.8	98930339.1	17-Jun-98	Granted		19-Jan-06	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	European Patent Convention	1013011	98930339.1	17-Jun-98	Inactive	Validated		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Finland	1013011	98930339.1	17-Jun-98	Inactive	Lapsed		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	France	2766997	9809992	4-Aug-98	Granted		21-Jan-00	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Great Britain	1013011	98930339.1	17-Jun-98	Granted		17-Aug-05	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Israel	134243	13424398	17-Jun-98	Granted		8-Feb-04	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	India	233208	1983/DEL/1998	10-Jul-98	Granted		27-Mar-09	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Italy	1299559	9800468	17-Jun-98	Inactive	Abandoned		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Japan	4188552	2000-505697	17-Jun-98	Granted		19-Sep-08	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Korea South	10-0327925	10-2000-7001207	17-Jun-98	Granted		26-Feb-02	METHOD AND APPARATUS FOR LASER COMMUNICATION THROUGH A LOSSY MEDIUM	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Liechtenstein	1013011	98930339.1	17-Jun-98	Granted		17-Aug-05	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Netherlands	1013011	98930339.1	17-Jun-98	Granted		17-Aug-05	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Norway		20000595	17-Jun-98	Inactive	Abandoned		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Russian Federation		2000105334/09	17-Jun-98	Inactive	Abandoned		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Sweden	1013011	98930339.1	17-Jun-98	Granted		17-Aug-05	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Taiwan	113503	87110248	25-Jun-98	Inactive	Lapsed		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	United States	6043920	08/905760	4-Aug-97	Granted		28-Mar-00	Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45218	Patent Cooperation Treaty		PCT/US1998/012642	17-Jun-98	Inactive	Expired		Method and apparatus for laser communication through a lossy medium	Leopold, Raymond Joseph; Peterson, Kenneth Maynard; Olds, Keith Andrew
45240	Belgium		9700969	28-Nov-97	Inactive	Abandoned		Satellite Communication System	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee
45240	Brazil		9705707-0	14-Nov-97	Inactive	Abandoned		Satellite Communication System	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee
45240	Canada		2221004	13-Nov-97	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM AND METHOD THEREFOR	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Switzerland		2544/97	3-Nov-97	Inactive	Abandoned		Satellite Communication System And Method Thereof	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	China P.R.		97123025	27-Nov-97	Inactive	Abandoned		Satellite Communication System	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee
45240	Germany		19751161.9	19-Nov-97	Inactive	Abandoned		Satellite Communication System	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	France		9714707	24-Nov-97	Inactive	Abandoned		Satellite Communication System	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Great Britain		9723112	29-Oct-97	Inactive	Abandoned		Satellite Communication System And Method Thereof	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Israel		121823	23-Sep-97	Inactive	Abandoned		Satellite Communication System	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	India		2953/DEL/1997	14-Oct-97	Inactive	Abandoned		Satellite communication system and method thereof	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45240	Italy	1295847	9700673	5-Nov-97	Inactive	Abandoned		Satellite Communication System	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Japan		09-331328	14-Nov-97	Inactive	Abandoned		SATELLITE COMMUNICATION SYSTEM	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Korea South		10-1997-0065764	29-Nov-97	Inactive	Abandoned		Satellite Communication System	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee
45240	Nigeria		355/97	25-Nov-97	Inactive	Abandoned		Satellite Communication System	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee
45240	Netherlands		1007634	27-Nov-97	Inactive	Abandoned		Satellite Communication System	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Russian Federation		97119747/09	28-Nov-97	Inactive	Abandoned		Satellite Communication System	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45240	Taiwan		86115323	17-Oct-97	Inactive	Abandoned		Satellite communication system and method thereof	Armbruster, Peter Joseph; Leopold, Raymond Joseph; Tayloe, Daniel Richard; Sowles, Kenneth Lee
45240	United States	6047161	08/753751	29-Nov-96	Granted		4-Apr-00	Satellite communication system and method thereof	Sowles, Kenneth Lee; Armbruster, Peter Joseph; Tayloe, Daniel Richard; Leopold, Raymond Joseph
45258	United States	6052085	09/092187	5-Jun-98	Granted		18-Apr-00	Method and system for beamforming at baseband in a communication system	Hanson, Duke E.; Startup, James W.; Gross, Joel L.; Gross, Jonathan Henry; Erick, John Richard
45259	United States	6052558	08/842102	28-Apr-97	Granted		18-Apr-00	Networked repeater	Cook, Dean Lawrence; Andresen, Michael J.; Corman, David Warren
45260	United States	6052604	08/943445	3-Oct-97	Granted		18-Apr-00	Exchange which controls M SLMs and N transceivers and method thereof	Bishop Jr., James William; Franzer, Michael; Magee, Stephen; Wuensch, Larry; Miller, Nathan; Ditch, Richard; Frederick, Robert T.
45261	Germany	19834115.6	19834115.6	29-Jul-98	Granted		30-Oct-08	Data transmission network operation method	Sawyer, Steven Paul; Wild, Johanna Alexandra; Armbruster, Peter Joseph
45261	France	2767436	9809994	4-Aug-98	Granted		29-Oct-04	Data transmission network operation method	Sawyer, Steven Paul; Wild, Johanna Alexandra; Armbruster, Peter Joseph
45261	Great Britain	2329561	9816704.2	3-Aug-98	Granted		11-Dec-02	Communication Method Using Protocol Options	Sawyer, Steven Paul; Wild, Johanna Alexandra; Armbruster, Peter Joseph
45261	Italy	1299573	9800486	22-Jul-98	Inactive	Abandoned		Data transmission network operation method	Sawyer, Steven Paul; Wild, Johanna Alexandra; Armbruster, Peter Joseph
45261	Japan	3845204	10-230098	30-Jul-98	Granted		25-Aug-06	Communication method and apparatus utilizing protocol options	Sawyer, Steven Paul; Wild, Johanna Alexandra; Armbruster, Peter Joseph
45261	United States	6058115	08/905666	4-Aug-97	Granted		2-May-00	Communication method and apparatus utilizing protocol options	Sawyer, Steven Paul; Wild, Johanna Alexandra; Armbruster, Peter Joseph
45267	Canada	2276524	2276524	3-Nov-98	Granted		29-May-07	ANTENNA BEAM PATTERNS HAVING WIDE NULLS	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	China P.R.	98802271	98802271	3-Nov-98	Granted		19-Jul-06	Antenna beam patterns having wide nulls	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	European Patent Convention		98957525.3	3-Nov-98	Filed			ANTENNA BEAM PATTERNS HAVING WIDE NULLS	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	Israel	130795	130795	3-Nov-98	Granted		12-Feb-03	Antenna beam patterns having wide nulls	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	Japan		11-526745	3-Nov-98	Inactive	Abandoned		Antenna beam patterns having wide nulls	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	Korea South	10-0608468	10-1999-7006049	3-Nov-98	Granted		27-Jul-06	Antenna beam patterns having wide nulls	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	Norway	322059	993268	3-Nov-98	Inactive	Abandoned		Antenna beam patterns having wide nulls	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	United States	6061023	08/963485	3-Nov-97	Granted		9-May-00	Method and apparatus for producing wide null antenna patterns	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45267	Patent Cooperation Treaty		PCT/US1998/023366	3-Nov-98	Inactive	Expired		ANTENNA BEAM PATTERNS HAVING WIDE NULLS	Daniel, Sam Mordochai; Ma, Stephen Chih-Hung; Warble, Keith Vaclav; Pan, Shao-Wei; Wang, Shay-Ping Thomas
45277	United States	6061406	09/027762	23 Feb-98	Granted		9-May-00	Multichannel time shared demodulator and method	Carson, Lansing McLain; Chih-Hung Ma, Stephen; Startup, James William; Burdge, Robert Jon
45278	United States	6064859	08/743121	4-Nov-96	Granted		16-May-00	Transmit and receive payload pair and method for use in communication systems	Leopold, Raymond J.; Peter A.; Olds, Keith A.
45279	Germany	69840454.8	98967025.2	25-Nov-98	Granted		7-Jan-09	Electrically-controllable back-fed antenna	Cook, Dean Lawrence; Buer, Kenneth Vern; Dendy, Deborah Sue; Corman, David Warren



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45279	European Patent Convention	1034577	98967025.2	25-Nov-98	Inactive	Validated		Electrically-controllable back-fed antenna	Cook, Dean Lawrence; Buer, Kenneth Vern; Dendy, Deborah Sue; Corman, David Warren
45279	France	1034577	98967025.2	25-Nov-98	Granted		7-Jan-09	Electrically-controllable back-fed antenna	Cook, Dean Lawrence; Buer, Kenneth Vern; Dendy, Deborah Sue; Corman, David Warren
45279	Singapore	200002397.8	200002397.8	25-Nov-98	Inactive	Abandoned		Electrically-controllable back fed antenna	Cook, Dean Lawrence; Buer, Kenneth Vern; Dendy, Deborah Sue; Corman, David Warren
45279	United States	6067047	08/980251	28-Nov-97	Granted		23-May-00	Electrically-controllable back-fed antenna and method for using same	Cook, Dean Lawrence; Buer, Kenneth Vern; Dendy, Deborah Sue; Corman, David Warren
45279	Patent Cooperation Treaty		PCT/US1998/025150	25-Nov-98	Inactive	Expired		ELECTRICALLY-CONTROLLABLE BACK-FED ANTENNA	Cook, Dean Lawrence; Buer, Kenneth Vern; Dendy, Deborah Sue; Corman, David Warren
45283	United States	6070050	08/943538	3-Oct-97	Granted		30-May-00	Method and apparatus for delivering messages to devices located within logical delivery areas	Penny Jr., Robert E.
45286	European Patent Convention		98923310.1	28-Apr-98	Inactive	Abandoned		SATELLITE SYSTEM FRAUD PREVENTION METHOD AND APPARATUS	Sawyer, Steven Paul; Lin, Wenko
45286	Spain		9800922	30-Apr-98	Inactive	Abandoned		SATELLITE SYSTEM FRAUD PREVENTION METHOD AND APPARATUS	Sawyer, Steven Paul; Lin, Wenko
45286	Italy	1299450	9800785	4-May-98	Inactive	Abandoned		SATELLITE SYSTEM FRAUD PREVENTION METHOD AND APPARATUS	Sawyer, Steven Paul; Lin, Wenko
45286	United States	6073006	08/851294	5-May-97	Granted		6-Jun-00	Method and apparatus for detecting and preventing fraud in a satellite communication system	Sawyer, Steven Paul; Lin, Wenko
45286	Patent Cooperation Treaty		PCT/US1998/008501	28-Apr-98	Inactive	Expired		SATELLITE SYSTEM FRAUD PREVENTION METHOD AND APPARATUS	Sawyer, Steven Paul; Lin, Wenko
45291	United States	6073012	08/963626	4-Oct-97	Granted		6-Jun-00	System for defining an individual subscriber unit location within a wireless communication system and method therefor	Vanden Heuvel, Dean Paul; Wild, Johanna Alexandra; Blanchard, Scott David
45292	United States	6075483	08/999154	29-Dec-97	Granted		13-Jun-00	Method and system for antenna beam steering to a satellite through broadcast of satellite position	Gross, Joel Lloyd
45293	United States	6078286	09/089895	3-Jun-98	Granted		20-Jun-00	Method and apparatus for efficient acquisition and tracking of satellites	Gonzales, Estavan Marcial; Bient, Richard Alan
45294	European Patent Convention		98928837.8	28-May-98	Inactive	Abandoned		MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45294	France	2764754	9807422	12-Jun-98	Granted		22-Oct-99	SYSTEME DE TELECOMMUNICATIONS PAR SATELLITES A PLUSIEURS ETAGES ET SON PROCEDE DE FONCTIONNEMENT	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45294	India		1355/DEL/98	21-May-98	Inactive	Abandoned		SYSTEME DE TELECOMMUNICATIONS PAR SATELLITES A PLUSIEURS ETAGES ET SON PROCEDE DE FONCTIONNEMENT	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45294	Italy	1299494	9800360	5-Jun-98	Inactive	Abandoned		SYSTEME DE TELECOMMUNICATIONS PAR SATELLITES A PLUSIEURS ETAGES ET SON PROCEDE DE FONCTIONNEMENT	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45294	Taiwan	112149	87108630	2-Jun-98	Granted		21-Feb-00	Multiple-tier satellite communication system and method of operation thereof	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45294	United States	6078810	08/873551	12-Jun-97	Granted		20-Jun-00	MULTIPLE-TIER SATELLITE COMMUNICATION SYSTEM AND METHOD OF OPERATION THEREOF	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45294	Patent Cooperation Treaty		PCT/US1998/010827	28-May-98	Inactive	Expired		MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Olds, Keith Andrew; Shaneyfelt, James Thomas; Kane, John Richard; Wagner, Carl Myron
45301	Germany	69921294.4	99905414.1	4-Jan-99	Granted		20-Oct-04	BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas
45301	European Patent Convention	1046247	99905414.1	4-Jan-99	Inactive	Validated		BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas
45301	France	1046247	99905414.1	4-Jan-99	Granted		20-Oct-04	BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas
45301	Great Britain	1046247	99905414.1	4-Jan-99	Granted		20-Oct-04	BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas
45301	Italy	1046247	99905414.1	4-Jan-99	Granted		20-Oct-04	BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas
45301	Japan		2000-528032	4-Jan-99	Inactive	Abandoned		BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas
45301	United States	6081227	09/002794	5-Jan-98	Granted		27-Jun-00	Method and apparatus for beam management in a satellite communication system	Haber, William Joe; Kroncke, George Thomas
45301	Patent Cooperation Treaty		PCT/US1999/000003	4-Jan-99	Inactive	Expired		BEAM MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM	Haber, William Joe; Kroncke, George Thomas



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45308	United States	6081531	08/905756	4-Aug-97	Granted		27-Jun-00	Apparatus and methods for using coding to perform signal routing in a satellite communication system	William Joe
45309	United States	6088214	09/088256	1-Jun-98	Granted		11-Jul-00	Voltage variable capacitor array and method of manufacture thereof	Malone, Hugh Robert; Phillips, James R.; Forst, Donald W.; Dendy, Deborah Sue; Cook, Dean Lawrence
45309	Patent Cooperation Treaty		PCT/US1999/011923	28-May-99	Inactive	Expired		VOLTAGE VARIABLE CAPACITOR ARRAY	Malone, Hugh Robert; Phillips, James R.; Forst, Donald W.; Dendy, Deborah Sue; Cook, Dean Lawrence
45311	United States	6088571	09/015955	30-Jan-98	Granted		11-Jul-00	Method and apparatus for multi-constellation satellite broadcast with error correction	Kane, John Richard; Olds, Keith Andrew
45312	France	2761339	9804035	1-Apr-98	Granted		13-Oct-00	Altitude control of space satellite using electrical supply sub-system	Basuthakur, Sibnath; Haber, William Joe
45312	United States	6089509	08/831119	1-Apr-97	Granted		18-Jul-00	Spacecraft altitude control using electrical power subsystem	Basuthakur, Sibnath; Haber, William Joe
45314	European Patent Convention	970538	98953236.1	2-Oct-98	Inactive	Validated		ELECTRONIC SCANNING REFLECTOR ANTENNA AND METHOD THEREFOR	Buer, Kenneth Vern; Corman, David Warren; Cook, Dean L.; Dendy, Deborah Sue
45314	France	970538	98953236.1	2-Oct-98	Granted		5-Jun-02	ELECTRONIC SCANNING REFLECTOR ANTENNA AND METHOD THEREFOR	Buer, Kenneth Vern; Corman, David Warren; Cook, Dean L.; Dendy, Deborah Sue
45314	Japan		11-522069	2-Oct-98	Inactive	Abandoned		ELECTRONIC SCANNING REFLECTOR ANTENNA AND METHOD THEREFOR	Buer, Kenneth Vern; Corman, David Warren; Cook, Dean L.; Dendy, Deborah Sue
45314	Singapore	9902591-8	9902591-8	2-Oct-98	Inactive	Abandoned		ELECTRONIC SCANNING REFLECTOR ANTENNA AND METHOD THEREFOR	Buer, Kenneth Vern; Corman, David Warren; Cook, Dean L.; Dendy, Deborah Sue
45314	United States	6091371	08/943810	3-Oct-97	Granted		18-Jul-00	Electronic scanning reflector antenna and method for using same	Buer, Kenneth Vern; Corman, David Warren; Cook, Dean L.; Dendy, Deborah Sue
45314	Patent Cooperation Treaty		PCT/US1998/020760	2-Oct-98	Inactive	Expired		ELECTRONIC SCANNING REFLECTOR ANTENNA AND METHOD THEREFOR	Buer, Kenneth Vern; Corman, David Warren; Cook, Dean L.; Dendy, Deborah Sue
45320	United States	6091942	08/755861	2-Dec-96	Granted		18-Jul-00	Self gain aligning circuit and method	Buer, Kenneth Vern; Corman, David Warren; Agar, Jr., Bill Tabano
45321	United States	6104911	08/970857	14-Nov-97	Granted		15-Aug-00	Communication system with satellite diversity and method of operation thereof	Dennis Paul
45322	United States	6104922	09/033417	2-Mar-98	Granted		15-Aug-00	METHOD AND APPARATUS FOR USER AUTHENTICATION IN A COMMUNICATIONS SYSTEM	William John
45323	United States	6108538	08/980665	1-Dec-97	Granted		22-Aug-00	Method and apparatus for dynamically controlling hand-off thresholds in a satellite cellular communication system	Blasiak, Dariusz Andrzej; Frank, Mark Steven; Christian, Paul Robert; Bakke, Bradley B.
45324	United States	6111542	09/055453	5-Apr-98	Granted		29-Aug-00	Rotating electronically steerable antenna system and method of operation thereof	Day, Kevin Kristopher; Torkington, Richard Scott; Locke, John Wesley
45325	United States	6112087	09/128430	4-Aug-98	Granted		29-Aug-00	Method and apparatus for user-aided registration	Taylor, Daniel Richard
45326	France		9809993	4-Aug-98	Inactive	Abandoned		Measurement of perturbation forces on attitude of orbiting satellite	Basuthakur, Sibnath; Bonello, David Paul; Buntschuh, Frank Hallett
45326	United States	6113034	08/905627	4-Aug-97	Granted		5-Sep-00	Method and apparatus for estimating effects of disturbance forces	Basuthakur, Sibnath; Bonello, David Paul; Buntschuh, Frank Hallett
45328	United States	6115580	09/150196	8-Sep-98	Granted		5-Sep-00	Communications network having adaptive network link optimization using wireless terrain awareness and method for use therein	Chuprun, Jeffrey Scott; Bergstrom, Chad S.; Tarver, Byron; Beaudry, Bennett
45328	Patent Cooperation Treaty		PCT/US1999/020254	2-Sep-99	Inactive	Expired		COMMUNICATIONS NETWORK HAVING ADAPTIVE NETWORK LINK OPTIMIZATION	Chuprun, Jeffrey Scott; Bergstrom, Chad S.; Tarver, Byron; Beaudry, Bennett
45330	United States	6119020	08/991578	16-Dec-97	Granted		12-Sep-00	Multiple user SIM card secured subscriber unit	Miller, Michael Addison; Tooker, James Morris
45331	United States	6124742	09/013234	26-Jan-98	Granted		26-Sep-00	Wide bandwidth frequency multiplier	Cook, Dean; Grondahl, Christopher D.
45332	United States	6128286	08/758335	3-Dec-96	Granted		3-Oct-00	Method and apparatus for using the sidelobe of a long range antenna for a short range communication link	Leopold, Raymond Joseph; Olds, Keith Andrew; Bertiger, Gary Robert
45332	United States	6477153	09/550766	17-Apr-00	Granted		5-Nov-02	Method and apparatus for using the sidelobe of a long range antenna for a short range communication link	Leopold, Raymond Joseph; Olds, Keith Andrew; Bertiger, Gary Robert
45334	United States	6131027	08/999502	29-Dec-97	Granted		10-Oct-00	System for controlling network bandwidth	Armbruster, Peter J.; Vanden Heuvel, Dean
45337	United States	6137612	09/002423	2-Jan-98	Granted		24-Oct-00	Method and system for channelization and down conversion of wideband subscriber information signals	Startup, James William
45338	France	2766996	9809991	4-Aug-98	Granted		31-Dec-99	PROCEDE ET DISPOSITIF PERMETTANT DE REDUIRE LE BLOCAGE DE SIGNAUX DANS UN SYSTEME DE TELECOMMUNICATIONS PAR SATELLITES	Krutz, Michael William; Redden, James Powers; Taylor, Daniel Richard



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45338	United States	6138012	08/905623	4-Aug-97	Granted		24-Oct-00	Method and apparatus for reducing signal blocking in a satellite communication system	Krutz, Michael William; Redden, James Powers; Tayloe, Daniel Richard
45338	Patent Cooperation Treaty		PCT/US1998/012029	10-Jun-98	Inactive	Expired		METHOD AND APPARATUS FOR REDUCING SIGNAL BLOCKING AND FADING THROUGH USE OF A DUAL SATELLITE COVERAGE	Krutz, Michael William; Redden, James Powers; Tayloe, Daniel Richard
45341	United States	6138013	09/012829	12-Feb-98	Granted		24-Oct-00	Method for location based intercept in a communication system	Blanchard, Scott David; Heuvel, Dean Paul Vanden; Patel, Pramodkumar
45347	United States	6138021	08/963211	3-Nov-97	Granted		24-Oct-00	Method and apparatus for providing deterministic hand-offs in a cellular communication system	Arrington, Jr., Arthur Edward; Hogberg, Shawn Wesley; Rebertus, Dennis Wayne
45343	United States	6140576	09/055456	6-Apr-98	Granted		31-Oct-00	Protective shield tent and method of using same	Kanne, Mark Melvin; Whiting, Ian Mark
45344	United States		09/616423	14-Jul-00	Inactive	Abandoned		Protective shield tent and method of using same	Kanne, Mark Melvin; Whiting, Ian Mark
45345	United States	6140976	09/390987	7-Sep-99	Granted		31-Oct-00	Method and apparatus for mitigating array antenna performance degradation caused by element failure	Locke, John W.; Haber, William J.; Chiavaceli, Paul A.
45346	United States	6141563	08/991580	16-Dec-97	Granted		31-Oct-00	SIM card secured subscriber unit	Miller, Michael Addison; Tooker, James Morris
45347	United States	6151308	08/774764	30-Dec-96	Granted		21-Nov-00	Elevated communication hub and method of operation therefor	Ibanez-Meler, Rodrigo; Kapoor, Vijay; Aguirre, Sergio
45348	United States	6157624	09/002795	5-Jan-98	Granted		5-Dec-00	Method and apparatus for linking terminals using private secondary service paths (PSSP) in a satellite communication system	Zancho, William Frank
45349	United States	6157681	09/055395	5-Apr-98	Granted		5-Dec-00	Transmitter system and method of operation therefor	Daniel, Brian Michael; Peterson, Kenneth Maynard; Schmidt, William George
45353	United States	6157840	09/144817	31-Aug-98	Granted		5-Dec-00	Method and apparatus for real-time channel resource allocation in a communications system	Hogberg, Shawn Wesley; Davieau, Gerald Joseph
45353	Patent Cooperation Treaty		PCT/US1999/019912	31-Aug-99	Inactive	Expired		METHOD AND APPARATUS FOR REAL-TIME CHANNEL ALLOCATION	Hogberg, Shawn Wesley; Davieau, Gerald Joseph
45355	United States	6160585	08/990394	15-Dec-97	Granted		12-Dec-00	System for selective multicasting in a communications system	Schmidt, William George; Gupta, Om Prakash
45356	United States	6161212	09/128598	3-Aug-98	Granted		12-Dec-00	Semiconductor junction model and method for use in a circuit modeling tool	Seely, Warren Leroy
45357	Brazil		9806291-3	2-Oct-98	Inactive	Abandoned		Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	China P.R.	98801655.9	98801655.9	2-Oct-98	Granted		10-Mar-04	Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	Germany		19881630.8	2-Oct-98	Filed			Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	Great Britain	2334603	9912845.6	2-Oct-98	Granted		18-Apr-01	Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	Hong Kong	1024587	103691.6	20-Jun-00	Inactive	Lapsed		Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	Japan		11-522067	2-Oct-98	Inactive	Abandoned		Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	Korea South	10-0601206	10-1999-7004839	2-Oct-98	Granted		7-Jul-06	Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	United States	6167234	08/943023	2-Oct-97	Granted		26-Dec-00	Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45357	Patent Cooperation Treaty		PCT/US1998/020758	2-Oct-98	Inactive	Expired		Method and apparatus for global message monitoring	McKibben, Bernie; Patel, Pramodkumar; Bassing, William Read
45366	United States	6169437	09/365390	2-Aug-99	Granted		2-Jan-01	Variable delay module	Navarro, Jesus Antonio; Klandrud, Timothy Jon
45367	United States	6169881	09/072042	4-May-98	Granted		2-Jan-01	METHOD AND APPARATUS FOR PREDICTING IMPENDING SERVICE OUTAGES FOR GROUND-TO-SATELLITE TERMINAL IN A SATELLITE COMMUNICATION SYSTEM	Astrom, Richard Lawrence; Daniel, Brian Michael; Sheffler, Alvin William
45367	Patent Cooperation Treaty		PCT/US1999/009627	3-May-99	Inactive	Expired		METHOD AND APPARATUS FOR PREDICTING SERVICE OUTAGES	Astrom, Richard Lawrence; Daniel, Brian Michael; Sheffler, Alvin William
45369	United States	6173156	09/072061	4-May-98	Granted		9-Jan-01	Global message delivery system and method using GEO and Non-GEO satellites	Worger, William R.; Hogg, Gerald J.; Greenwood, Jr., James Edward
45370	Canada		2289514	22-Mar-99	Inactive	Abandoned		SYSTEM AND METHOD FOR SECTOR-BASED ROUTING	Worger, William R.; Long, Craig
45370	France		9903799	26-Mar-99	Inactive	Abandoned		SYSTEM AND METHOD FOR SECTOR-BASED ROUTING	Worger, William R.; Long, Craig
45370	Great Britain	2342540	9927636.2	22-Mar-99	Granted		12-Mar-03	System and method for sector-based routing	Worger, William R.; Long, Craig
45370	Japan		11-549498	22-Mar-99	Inactive	Abandoned		SYSTEM AND METHOD FOR SECTOR-BASED ROUTING	Worger, William R.; Long, Craig
45370	Sweden		9904308-5	22-Mar-99	Inactive	Abandoned		SYSTEM AND METHOD FOR SECTOR-BASED ROUTING	Worger, William R.; Long, Craig



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45370	United States	6173176	09/049533	27-Mar-98	Granted		9-Jan-01	Method for sector-based routing	Worger, William R.; Long, Craig
45370	Patent Cooperation Treaty		PCT/US1999/006305	22-Mar-99	Inactive	Expired		SYSTEM AND METHOD FOR SECTOR-BASED ROUTING	Worger, William R.; Long, Craig
45377	United States	6175340	09/071043	4-May-98	Granted		16-Jan-01	Hybrid geostationary and low earth orbit satellite ground station antenna	Olds, Keith Andrew; Wagner, Carl Myron; Locke, John Wesley
45378	United States	6178195	09/078802	14-May-98	Granted		23-Jan-01	Method and apparatus for detecting spread spectrum signals using a signal from a secondary source	Durboraw, III, Isaac Newton; Leopold, Raymond Joseph
45379	United States	6181694	09/017157	2-Feb-98	Granted		30-Jan-01	Air interface statistical multiplexing in communication systems	Turcotte, Randy Lee; Ibanez-Meier, Rodrigo; Peterson, Kenneth Maynard
45380	Taiwan		59103377	25-Feb-00	Inactive	Abandoned		UEAM STEERING PLANAR ARRAY ANTENNA	Dandy, Deborah Sue; Corman, David Warren; Ma, Stephen Chih-hung; Munger, Archer David; Warble, Keith Vaclav
45380	United States	6184827	09/258231	26-Feb-99	Granted		6-Feb-01	Low cost beam steering planar array antenna	Dandy, Deborah Sue; Corman, David Warren; Ma, Stephen Chih-hung; Munger, Archer David; Warble, Keith Vaclav
45380	Patent Cooperation Treaty		PCT/US2000/004468	22-Feb-00	Inactive	Expired		BEAM STEERING PLANAR ARRAY ANTENNA	Dandy, Deborah Sue; Corman, David Warren; Ma, Stephen Chih-hung; Munger, Archer David; Warble, Keith Vaclav
45383	United States	6184843	09/414112	7-Oct-98	Granted		6-Feb-01	Extendable/stowable antenna	Minks, Dan Earl; Henderson, Gordon Craig; Isbell, James Lee
45383	Patent Cooperation Treaty		PCT/US2000/023970	25-Aug-00	Inactive	Expired		EXTENDABLE/STOWABLE ANTENNA	Minks, Dan Earl; Henderson, Gordon Craig; Isbell, James Lee
45385	Australia	754023	42248/99	28-May-99	Granted		20-Feb-03	Device for providing interoperability between communications systems	Sharrit, John Paul; Shepard, John Wayne
45385	Canada		2333958	28-May-99	Inactive	Abandoned		DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Germany	69932613	99926088.8	28-May-99	Granted		2-Aug-06	DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	European Patent Convention	1084555	99926088.8	28-May-99	Inactive	Validated		DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	France	1084555	99926088.8	28-May-99	Granted		2-Aug-06	DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Great Britain	1084555	99926088.8	28-May-99	Granted		2-Aug-06	DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Israel	138876	138876	28-May-99	Granted		17-May-05	DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Italy	1084555	99926088.8	28-May-99	Inactive	Abandoned		DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Japan	4415068	2000-552823	28-May-99	Granted		4-Dec-09	DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Korea South	10-0514304	10-2000-7012898	28-May-99	Granted		5-Sep-05	DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	Mexico	221710	11614	28-May-99	Granted		26-Jul-04	Device for providing interoperability between communications systems	Sharrit, John Paul; Shepard, John Wayne
45385	Poland		344347	28-May-99	Inactive	Abandoned		DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45385	United States	6185205	09/088008	1-Jun-98	Granted		6-Feb-01	Method and apparatus for providing global communications interoperability	Sharrit, John Paul; Shepard, John Wayne
45385	Patent Cooperation Treaty		PCT/US1999/012079	28-May-99	Inactive	Expired		DEVICE FOR PROVIDING INTEROPERABILITY BETWEEN COMMUNICATIONS SYSTEMS	Sharrit, John Paul; Shepard, John Wayne
45399	United States	6185408	09/97149	3-Sep-97	Granted		6-Feb-01	Method and apparatus for mitigating the effects of a communications channel using polarized signals	Leopold, Raymond Joseph; Ibanez-Meier, Rodrigo; Turcotte, Randy Lee
45404	United States	6185536	09/034277	4-Mar-98	Granted		6-Feb-01	System and method for establishing a communication link using user-specific voice data parameters as a user discriminator	Haber, William J.; Kroncke, Thomas; Schmidt, William G.
45405	Canada		2172926	28-Mar-96	Inactive	Abandoned		ADVANCED SUBSCRIBER OUTAGE NOTIFICATION METHODS	Taylor, Daniel Richard; Krutz, Michael William
45405	China P.R.		96107922.3	3-Jun-96	Inactive	Abandoned		Advanced subscriber outage notification system and methods	Taylor, Daniel Richard; Krutz, Michael William
45405	Germany		19618751.8	9-May-96	Inactive	Abandoned		Fortgeschrittenes Teilnehmersausfallbenachrichtigungssystem und zugehörige Verfahren	Taylor, Daniel Richard; Krutz, Michael William
45405	Great Britain	2302241	9611999.5	7-Jun-96	Granted		21-Mar-00	Advanced subscriber outage notification methods	Taylor, Daniel Richard; Krutz, Michael William
45405	India	199921	832/DEL/96	18-Apr-96	Inactive	Abandoned		Advanced subscriber outage notification system and methods	Taylor, Daniel Richard; Krutz, Michael William



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45405	Italy	1285196	96RM00398	7-Jun-96	Granted		3-Jun-98	Advanced subscriber outage notification methods	Taylor, Daniel Richard; Krutz, Michael William
45405	Taiwan		85104642	18-Apr-96	Inactive	Abandoned		Advanced subscriber outage notification methods	Taylor, Daniel Richard; Krutz, Michael William
45405	United States	6192740	08/489577	12-Jun-95	Granted		20-Feb-01	Advanced subscriber outage notification methods	Taylor, Daniel Richard; Krutz, Michael William
45413	Brazil		11082	5-Apr-00	Filed			SYSTEM OPTIMIZATION USING ANTENNA BEAMFORMING	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45413	China P.R.	00808338.X	00808338.X	5-Apr-00	Granted		7-Nov-07	System optimization using antenna beamforming	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45413	Germany		10084655.6	5-Apr-00	Inactive	Abandoned		SYSTEM OPTIMIZATION USING ANTENNA BEAMFORMING	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45413	Hong Kong	1048570	3100633	24-Jan-03	Granted		29-Aug-08	SYSTEM OPTIMIZATION USING ANTENNA BEAMFORMING	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45413	Russian Federation		2001135852/09	5-Apr-00	Inactive	Abandoned		SYSTEM OPTIMIZATION USING ANTENNA BEAMFORMING	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45413	United States	6195037	09/323349	1-Jun-99	Granted		27 Feb-01	Method and apparatus for increased system capacity using antenna beamforming	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45413	Patent Cooperation Treaty		PCT/US2000/009040	5-Apr-00	Inactive	Expired		SYSTEM OPTIMIZATION USING ANTENNA BEAMFORMING	Gross, Jonathan H.; Erlick, John Richard; Emmons, Jr., Thomas Peter
45420	Germany	69917056.7	99956486.7	13-Oct-99	Granted		6-May-04	METHOD FOR USE IN A DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	European Patent Convention	1121771	99956486.7	13-Oct-99	Inactive	Validated		METHOD FOR USE IN A DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	Finland	1121771	99956486.7	13-Oct-99	Inactive	Lapsed		METHOD FOR USE IN A DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	France	1121771	99956486.7	13-Oct-99	Granted		6-May-04	METHOD FOR USE IN A DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	Great Britain	1121771	99956486.7	13-Oct-99	Granted		6-May-04	METHOD FOR USE IN A DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	Sweden	1121771	99956486.7	13-Oct-99	Inactive	Lapsed		METHOD FOR USE IN A DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	United States	6198730	09/170257	13-Oct-98	Granted		6-Mar-01	Systems and method for use in a dual mode satellite communications system	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45420	Patent Cooperation Treaty		PCT/US1999/021602	13-Oct-99	Inactive	Expired		DUAL MODE SATELLITE COMMUNICATIONS NETWORK	Hogberg, Shawn Wesley; Emmons, Jr., Thomas Peter; Smith, Robert H.
45428	United States	6198907	09/016976	2-Feb-98	Granted		6-Mar-01	Satellite communications systems using satellites in a zero-drift constellation	Torkington, Richard S.; Emmons, Jr., Thomas P.; Warble, Keith
45429	Germany		19887452.9	28-May-98	Inactive	Abandoned		MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	France	2764755	9807421	12-Jun-98	Granted		22-Oct-99	MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	Great Britain		9929342.5	28-May-98	Inactive	Lapsed		Multi-tier satellite system and method of operation	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	India		1535/DEL/98	4-Jun-98	Inactive	Abandoned		PROCEDE ET APPAREIL PERMETTANT D'AUGMENTER LA CAPACITE DE TRAITEMENT DE COMMUNICATIONS A L'AIDE D'UN RESEAU DE SATELLITES A PLUSIEURS ETAGES	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	Italy	1299506	9800375	10-Jun-98	Inactive	Abandoned		PROCEDE ET APPAREIL PERMETTANT D'AUGMENTER LA CAPACITE DE TRAITEMENT DE COMMUNICATIONS A L'AIDE D'UN RESEAU DE SATELLITES A PLUSIEURS ETAGES	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	Japan	4423410	11-502567	28-May-98	Granted		18-Dec-09	MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	Taiwan	108041	87109388	23-Jun-98	Granted		21-Oct-99	MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	United States	6208625	08/871911	12-Jun-97	Granted		27-Mar-01	Method and apparatus for increasing call-handling capacity using a multi-tier satellite network	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45429	Patent Cooperation Treaty		PCT/US1998/010830	28-May-98	Inactive	Expired		MULTI-TIER SATELLITE SYSTEM AND METHOD OF OPERATION	Zancho, William Frank; Krutz, Michael William; Vatt, Gregory Barton
45438	France	2797556	10565	11-Aug-00	Granted		22-Feb-02	Heat spreader	Messenger, Thomas R.; Whiting, Ian Mark
45438	Great Britain	2356288	17402.9	14-Jul-00	Granted		7-Nov-01	Heat spreader	Messenger, Thomas R.; Whiting, Ian Mark
45438	United States	6215661	09/372292	11-Aug-99	Granted		10-Apr-01	Heat spreader	Messenger, Thomas R.; Whiting, Ian Mark
45441	United States	6219593	09/261023	1-Mar-99	Granted		17-Apr-01	Method and apparatus for altitude determination in a multi-nodal system	Kroncke, George Thomas
45441	Patent Cooperation Treaty		PCT/US2000/004472	22-Feb-00	Inactive	Expired		ALTITUDE DETERMINATION IN A MULTI-NODAL SYSTEM	Kroncke, George Thomas



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45443	United States	6225946	09/383610	26-Aug-99	Granted		1-May-01	Method and apparatus for a limited scan phased array of oversized elements	Kreutel, Randall William; Chlavacchi, Paul
45444	Germany		19720720	16-May-97	Inactive	Abandoned		Geosynchronous Satellite Communication System	Leopold, Raymond Joseph; Diekelman, Dennis Paul
45444	France		9706587	29-May-97	Inactive	Abandoned		Geosynchronous Satellite Communication System	Leopold, Raymond Joseph; Diekelman, Dennis Paul
45444	Great Britain	2313743	9708373.7	25-Apr-97	Inactive	Abandoned		Geosynchronous satellite communication system and method	Leopold, Raymond Joseph; Diekelman, Dennis Paul
45444	Japan		09-150432	23-May-97	Inactive	Abandoned		SYSTEM AND METHOD FOR GEOSTATIONARY SATELLITE COMMUNICATION	Leopold, Raymond Joseph; Diekelman, Dennis Paul
45444	Russian Federation		97108701/09	30-May-97	Inactive	Abandoned		Geosynchronous Satellite Communication System	Leopold, Raymond Joseph; Diekelman, Dennis Paul
45444	United States	6226493	08/657846	31-May-96	Granted		1-May-01	Geosynchronous satellite communication system and method	Leopold, Raymond Joseph; Diekelman, Dennis Paul
45450	United States	6230000	09/178030	15-Oct-98	Granted		8-May-01	Product detector and method therefor	Taylor, Daniel Richard
45450	Patent Cooperation Treaty		PCT/US1999/023783	13-Oct-99	Inactive	Expired		PRODUCT DETECTOR AND METHOD THEREFOR	Taylor, Daniel Richard
45452	United States	6240074	09/025808	19-Feb-98	Granted		29-May-01	Secure communication hub and method of secure data communication	Chandos, Ronald V.; Worger, William R.; Harrison, David M.
45452	Patent Cooperation Treaty		PCT/US1999/002450	5-Feb-99	Inactive	Expired		SECURE COMMUNICATION HUB AND COMMUNICATION METHOD	Chandos, Ronald V.; Worger, William R.; Harrison, David M.
45454	United States	6262687	09/648572	25-Aug-00	Granted		17-Jul-01	Tracking antenna and method	Bai, Monty W.; de Guzman, Jeff P.
45455	Canada	2424101	2424101	10-Oct-01	Granted		13-Apr-10	EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45455	Germany	60112785.4	1979988.1	10-Oct-01	Granted		17-Aug-05	Method for efficiently generating selectable antenna polarization	Malone, Hugh Robert; Fuller, Ronald Dee
45455	European Patent Convention	1329001	1979988.1	10-Oct-01	Inactive	Validated		EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45455	Finland	1329001	1979988.1	10-Oct-01	Inactive	Lapsed		EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45455	France	1329001	1979988.1	10-Oct-01	Granted		17-Aug-05	EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45455	Great Britain	1329001	1979988.1	10-Oct-01	Granted		17-Aug-05	EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45455	Sweden	1329001	1979988.1	10-Oct-01	Granted		17-Aug-05	EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45455	United States	6767690	09/687361	13-Oct-00	Granted		17-Jul-01	Method for efficiently generating selectable antenna polarization	Malone, Hugh Robert; Fuller, Ronald Dee
45455	Patent Cooperation Treaty		PCT/US2001/042633	10-Oct-01	Inactive	Expired		EFFICIENTLY GENERATING SELECTABLE ANTENNA POLARIZATION	Malone, Hugh Robert; Fuller, Ronald Dee
45464	France	2800215	10669	17-Aug-00	Inactive	Abandoned	27-Apr-01	Dynamic beam fill-in system and method therefor	Leopold, Raymond J.; Morrow, Jeffrey C.; Laub, Jeffrey D.
45464	Great Britain	2354673	16694.4	10-Jul-00	Granted		14-May-02	Dynamic beam fill-in system and method therefor	Leopold, Raymond J.; Morrow, Jeffrey C.; Laub, Jeffrey D.
45464	United States	6269242	09/376423	18-Aug-99	Granted		31-Jul-01	Dynamic beam fill-in system and method therefor	Leopold, Raymond J.; Morrow, Jeffrey C.; Laub, Jeffrey D.
45467	United States	6272314	09/302331	30-Apr-99	Granted		7-Aug-01	Subscriber unit for beam acquisition in a satellite communication system and method therefor	Emmons, Jr., Thomas Peter; Hoggberg, Shawn; Davieau, Gerald Joseph; Startup, Jim; Chen, Susan
45467	Patent Cooperation Treaty		PCT/US2000/006769	15-Mar-00	Inactive	Expired		SUBSCRIBER UNIT FOR BEAM ACQUISITION AND BEAM SELECTION	Emmons, Jr., Thomas Peter; Hoggberg, Shawn; Davieau, Gerald Joseph; Startup, Jim; Chen, Susan
45469	United States	6272345	09/126647	31-Jul-98	Granted		7-Aug-01	Method and apparatus for region based hand-offs in a satellite communication system	Worger, William R.; Long, Craig; Woodward, Ernest E.
45469	Patent Cooperation Treaty		PCT/US1999/016986	29-Jul-99	Inactive	Expired		REGION BASED HAND-OFFS IN A SATELLITE COMMUNICATION SYSTEM	Worger, William R.; Long, Craig; Woodward, Ernest E.
45471	United States	6275475	09/094976	15-Jun-98	Granted		14-Aug-01	System and method for maintaining spectral capacity in time division duplex (TDD) systems	Emmons Jr., Thomas Peter; Peters, Robert Anthony
45472	United States	6281766	09/088255	1-Jun-98	Granted		28-Aug-01	STACKED PIEZOELECTRIC ACTUATORS TO CONTROL WAVEGUIDE PHASE SHIFTERS AND METHOD OF MANUFACTURE THEREOF	Malone, Hugh Robert; Dandy, Deborah Sue; Cook, Dean Lawrence; Phillips, James R.; Komrmusch, Richard S.
45472	Patent Cooperation Treaty		PCT/US1999/011922	28-May-99	Inactive	Expired		Phased array antenna using piezoelectric actuators	MALONE, Robert, Hugh; Dandy, Deborah Sue; Cook, Dean Lawrence; Phillips, James R.; Komrmusch, Richard S.
45474	United States	6285338	09/493824	28-Jan-00	Granted		4-Sep-01	Method and apparatus for eliminating keyhole problem of an azimuth-elevation gimbal antenna	Bai, Monty W.; Kingston, Keith A.; Malone, Hugh R.; Doggett Jr., John G.; Vidano, Ronald P.; Yingling, Earl R.
45475	United States	6289201	09/165379	2-Oct-98	Granted		11-Sep-01	Method and system for multilayer service management	Weber, Mary Maureen; Xenakis, George; Hogg, Gerald James; Greenwood Jr., James Edward



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TORSAL PATENTS**

Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45476	European Patent Convention		98928838.6	28-May-98	Inactive	Abandoned		Distributed virtual network satellite telecommunication system and method	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45476	France	2765051	9807429	17-Jun-98	Granted		22-Oct-99	Distributed virtual network satellite telecommunication system and method	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45476	India		1545/Del/98	5-Jun-98	Inactive	Abandoned		Distributed virtual network satellite telecommunication system and method	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45476	Italy		9800374	28-May-98	Inactive	Abandoned		Distributed virtual network satellite telecommunication system and method	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45476	Taiwan	109499	87108631	2-Jun-98	Granted		11-Dec-99	Distributed virtual network satellite telecommunication system and method	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45476	United States	6292659	08/873877	12-Jun-97	Granted		18-Sep-01	Global telecommunications system with distributed virtual networks and method of operation therefor	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45476	Patent Cooperation Treaty		PCT/US1998/010828	28-May-98	Inactive	Expired		Distributed virtual network satellite telecommunication system and method	Olds, Keith Andrew; Kane, John Richard; Kapoor, Vijay
45483	United States	6307507	09/519915	7-Mar-00	Granted		23-Oct-01	System and method for multi-mode operation of satellite phased-array antenna	Gross, Joel Lloyd; Gross, Jonathan Henry; Peters, Robert Anthony; DiFonzo, Daniel Francis
45484	United States	6376543	09/413978	7-Oct-99	Granted		4-Dec-01	SELF-SEALING ACCESSABLE CONTAINER	Lamp, Robert James; Isbell, James Lee
45484	Patent Cooperation Treaty		PCT/US2000/024877	11-Sep-00	Inactive	Expired		Self-sealing accessible container	Lamp, Robert James; Isbell, James Lee
45486	Germany	60015105	917837.7	10-Mar-00	Granted		17-Mar-05	Method and system for improving the link margin in satellite communications	Peters, Robert Anthony; Startup, James W.; Monsen, Peter
45486	European Patent Convention	1166484	917837.7	10-Mar-00	Inactive	Validated		Method and system for improving the link margin in satellite communications	Peters, Robert Anthony; Startup, James W.; Monsen, Peter
45486	France	1166484	917837.7	10-Mar-00	Granted		20-Oct-04	Method and system for improving the link margin in satellite communications	Peters, Robert Anthony; Startup, James W.; Monsen, Peter
45486	Great Britain	1166484	917837.7	10-Mar-00	Granted		20-Oct-04	Method and system for improving the link margin in satellite communications	Peters, Robert Anthony; Startup, James W.; Monsen, Peter
45486	United States	6343210	09/274023	22-Mar-99	Granted		29-Jan-02	Method and system for soft decision propagation	Emmons Jr, Thomas Peter; Peters, Robert Anthony; Startup, James W.; Monsen, Peter
45486	Patent Cooperation Treaty		PCT/US2000/006292	10-Mar-00	Inactive	Expired		Method and system for improving the link margin in satellite communications	Peters, Robert Anthony; Startup, James W.; Monsen, Peter
45492	United States	6356295	09/399264	20-Sep-99	Granted		12-Mar-02	Ground based antenna assembly	Laidig, David R.; Locke, John W.
45492	Patent Cooperation Treaty		PCT/US2000/020117	24-Jul-00	Inactive	Expired		Ground based antenna assembly	Laidig, David R.; Locke, John W.
45494	China P.R.	800258.4	800258.4	22-Feb-00	Granted		26-Nov-03	Signal acquisition method and apparatus	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	Germany	60021489.3	913562.5	22-Feb-00	Granted		24-May-06	Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	European Patent Convention	1076942	913562.5	22-Feb-00	Inactive	Validated		Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	France	1076942	913562.5	22-Feb-00	Granted		27-Jul-05	Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	Italy	1076942	913562.5	22-Feb-00	Granted		24-May-06	Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	Japan		2000-604548	22-Feb-00	Inactive	Abandoned		Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	United States	6366775	09/263551	8-Mar-99	Granted		2-Apr-02	SIGNAL ACQUISITION METHOD AND APPARATUS	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45494	Patent Cooperation Treaty		PCT/US2000/004471	22-Feb-00	Inactive	Expired		Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45498	Hong Kong		1106871	28-Sep-01	Inactive	Abandoned		Signal acquisition method and apparatus in a satellite communication system	Startup, James W.; Helm, Jim E.; Hogberg, Shawn Wesley
45503	United States	6367989	09/575514	22-May-00	Granted		9-Apr-02	Optical Interconnect method and apparatus	Hartman, Davis Howard; Kleiner, Norbert; Tomren, Douglas Roy; Warble, Keith Vach
45504	United States	6369678	09/592085	12-Jun-00	Granted		9-Apr-02	RF assembly with ground-plane slot between components and method therefor	Seely, Warren Leroy; Fuller, Ronald Dee; Kielmayer, Jr., Ronald Frank
45505	United States	6377540	09/126551	31-Jul-98	Granted		23-Apr-02	Method and apparatus for managing resource allocation conflicts in a communications system	Hogberg, Shawn Wesley; Davieau, Gerald Joseph; Cutler, Jr., Victor Hawes
45506	United States	6377590	09/088032	1-Jun-98	Granted		23-Apr-02	Apparatus and method for adaptive delay mitigation of voice communication	Hopps, Thomas Jake; Chu, Thomas; Ranganathan, Murali; Sale, Darryl



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TORSAL PATENTS**

Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45507	United States	6393033	09/128263	3-Aug-98	Granted		21-May-02	Method and apparatus for encapsulating ISDN data in a broadband network	Woodward, Ernest Earl; Elahi, Ali; Harris, Jeffrey Martin
45508	United States	6393293	09/489393	21-Jan-00	Granted		21-May-02	Method for rectangular parameterization of a geographic area using a geolocation algorithm	Saewert, David Stephen; Garcia, David Jesus; Tooker, James Morris; Tang, Jerry Shihkuo
45509	United States	6400324	09/754752	4-Jan-01	Granted		4-Jun-02	Automatically oriented antenna for a handheld communication device	Macias, Juan H.
45510	United States	6400927	09/385555	30-Aug-99	Granted		4-Jun-02	Method and apparatus for a mapping receiver	Daniel, Brian M.; Cornia, Curtis L.; Olds, Keith A.; Waddoups, Ray O.
45510	Patent Cooperation Treaty		PCT/US2000/020116	24-Jul-00	Inactive	Expired		Method and apparatus to avoid potential interferences	Daniel, Brian M.; Cornia, Curtis L.; Olds, Keith A.; Waddoups, Ray O.
45512	United States		08/669777	26-Jun-96	Inactive	Abandoned		Directional routing of packets in a satellite network	Kapoor, Vijay
45512	United States	6404769	09/080179	18-May-98	Granted		11-Jun-02	Directional routing of packets in a satellite network	Kapoor, Vijay
45514	United States	6411609	09/436572	9-Nov-99	Granted		25-Jun-02	System and method for providing dual satellite communications coverage	Emmons, Jr., Thomas Peter; Peters, Robert Anthony; Hogberg, Shawn
45515	United States	6412989	09/546218	10-Apr-00	Granted		2-Jul-02	Directable laser transmission module	Hartman, Davis Howard; Schwartz, Daniel Bruce; Labby, Michael Stephen
45516	United States	6415079	09/317575	24-May-99	Granted		2-Jul-02	Echo canceler and double-talk detector for use in a communications unit	Piket, James Brian; Amos, Lance Foreman; Hall, Holly Elizabeth; Yip, William Chunhung
45516	Patent Cooperation Treaty		PCT/US2000/008308	29-Mar-00	Inactive	Expired		Advanced double-talk detector	Piket, James Brian; Amos, Lance Foreman; Hall, Holly Elizabeth; Yip, William Chunhung
45518	United States	6416098	09/706962	6-Nov-00	Granted		9-Jul-02	Satellite vehicle shipping container	Irwin, W. George C.; LeBa, Javier Nili; McBride, John R.; Kanne, Mark M.
45519	France		11062	30-Aug-00	Inactive	Abandoned		Preferred communication periods in a satellite communication system	Cutler, Victor H.
45519	United States	6418312	09/385511	30-Aug-99	Granted		9-Jul-02	MANAGEMENT OF PREFERRED COMMUNICATIONS PERIODS IN A SATELLITE COMMUNICATION SYSTEM	Cutler, Victor H.
45519	Patent Cooperation Treaty		PCT/US2000/015630	7-Jun-00	Inactive	Expired		Preferred communication periods in a satellite communication system	Cutler, Victor H.
45522	United States	6441694	09/738124	15-Dec-00	Granted		27-Aug-02	Method and apparatus for generating digitally modulated signals	Turcotte, Randy L.; Ma, Stephen Chihhung; Ronning, Matthew A.; Warble, Keith V.; Okrah, Peter O.
45523	United States	6442652	09/389737	7-Sep-99	Granted		27-Aug-02	Load based cache control for satellite based CPUs	Laboy, Jose Arnaldo; Schaefer, Bradley Robert
45524	United States	6449263	09/032974	2-Mar-98	Granted		10-Sep-02	Method for communicating signaling messages through a broadband network	Harris, Jeffrey Martin; Woodward, Ernest Earl; Hogg, Gerald James
45525	United States	6453154	09/415894	8-Oct-99	Granted		17-Sep-02	Moveable antenna employing a hybrid RF and DC circuit	Heber, William Joe; House, Kevin Duane; Edwards, David Wilson
45525	Patent Cooperation Treaty		PCT/US2000/024903	12-Sep-00	Inactive	Expired		Moveable antenna	Heber, William Joe; House, Kevin Duane; Edwards, David Wilson
45527	United States	6487426	09/465136	16-Dec-99	Granted		26-Nov-02	Self-aligning wireless interface system and method	Heber, William J.
45527	Patent Cooperation Treaty		PCT/US2000/033666	12-Dec-00	Inactive	Expired		Self-aligning wireless interface system and method	Heber, William J.
45529	United States	6490448	09/459001	10-Dec-99	Granted		3-Dec-02	Snap to grid variable beam size digital beamforming system	Hogberg, Shawn Wesley; Gross, Jonathan Henry; Davieau, Gerald Joseph
45529	Patent Cooperation Treaty		PCT/US2000/032285	22-Nov-00	Inactive	Expired		VARIABLE BEAM SIZE DIGITAL BEAMFORMING SYSTEM	Hogberg, Shawn Wesley; Gross, Jonathan Henry; Davieau, Gerald Joseph
45531	United States	6491257	09/417062	13-Oct-99	Granted		10-Dec-02	Technique for satellite constellation growth	Emmons, Jr., Thomas Peter; Torkington, Richard Scott; Klekotka, James Edmund
45532	Brazil		111837	22-Jun-01	Filed			CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Tessler, Michael A.; Gross, Jonathan H.; Emmons, Jr., Thomas Peter
45532	Canada		2412918	22-Jun-01	Filed			CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Tessler, Michael A.; Gross, Jonathan H.; Emmons, Jr., Thomas Peter
45532	Germany	60109781.5	1948677.8	22-Jun-01	Granted		25-Aug-05	CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45532	European Patent Convention	1297641	1948677.8	22-Jun-01	Inactive	Validated		CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45532	France	1297641	1948677.8	22-Jun-01	Granted		30-Mar-05	CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45532	Great Britain	1297641	1948677.8	22-Jun-01	Granted		30-Mar-05	CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45532	Mexico	240125	2002/PA12798	22-Jun-01	Granted		8-Sep-08	CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Emmons, Jr., Thomas Peter



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45532	United States	6507739	09/605083	26-Jun-00	Granted		14-Jan-03	Apparatus and methods for controlling a cellular communications network having airborne transceivers	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45532	Patent Cooperation Treaty		PCT/US2001/020139	22-Jun-01	Inactive	Expired		CELLULAR COMMUNICATIONS NETWORK HAVING AIRBORNE TRANSCIVERS	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45541	United States	6522636	09/411727	1-Oct-99	Granted		18-Feb-03	Satellite communications system and method with real-time power-based flow control	Hogberg, Shawn; Davieau, Jerry
45541	Patent Cooperation Treaty		PCT/US2000/021457	4-Aug-00	Inactive	Expired		METHOD OF MANAGING AN ELECTRICAL POWER SUBSYSTEM ON-BOARD A SATELLITE	Hogberg, Shawn; Davieau, Jerry
45543	France	2804817	101776	9-Feb-01	Granted		27-Jun-03	USER KEY VALIDATION	Chu, Thomas S.; Sale, Darryl
45543	United States	6522874	09/500514	9-Feb-00	Granted		18-Feb-03	User key validation to prevent fraud during system handoffs	Chu, Thomas S.; Sale, Darryl
45543	Patent Cooperation Treaty		PCT/US2000/034495	18-Dec-00	Inactive	Expired		USER KEY VALIDATION	Chu, Thomas S.; Sale, Darryl
45546	United States	6535734	09/542608	4-Apr-00	Granted		18-Mar-03	Method and apparatus for steering mobile platform beams	Miller, Karl Erik; D'Antonio, Price Andrew; Provance, Curt A.; Doerr, Kenneth Joseph; Leeland, Steven Brian
45547	United States	6538536	09/672230	27-Sep-00	Granted		25-Mar-03	Dielectric resonator oscillator and methods of assembly thereof	Seely, Warren L.; Goodman, Charles J.
45548	United States	6553208	09/663520	15-Sep-00	Granted		22-Apr-03	Methods and apparatus for using ground based processing resources to support orbiting satellites	Worger, William Robert; Schaefer, Bradley Robert; Redden, James Powers
45549	Germany	60041238.5	125404.4	20-Nov-00	Granted		31-Dec-08	Method and apparatus for controlling antenna beams within a cellular communication system	Gross, Jonathan Henry; Hogberg, Shawn; Startup, James William; Peters, Robert Anthony
45549	European Patent Convention	1107476	125404.4	20-Nov-00	Inactive	Validated		Method and apparatus for controlling antenna beams within a cellular communication system	Gross, Jonathan Henry; Hogberg, Shawn; Startup, James William; Peters, Robert Anthony
45549	France	1107476	125404.4	20-Nov-00	Granted		31-Dec-08	Method and apparatus for controlling antenna beams within a cellular communication system	Gross, Jonathan Henry; Hogberg, Shawn; Startup, James William; Peters, Robert Anthony
45549	Great Britain	1107476	125404.4	20-Nov-00	Granted		31-Dec-08	Method and apparatus for controlling antenna beams within a cellular communication system	Gross, Jonathan Henry; Hogberg, Shawn; Startup, James William; Peters, Robert Anthony
45549	United States	6556809	09/447313	22-Nov-99	Granted		29-Apr-03	Method and apparatus for controlling communication beams within a cellular communication system	Gross, Jonathan Henry; Hogberg, Shawn; Startup, James William; Peters, Robert Anthony
45551	United States	6570858	09/431641	1-Nov-99	Granted		27-May-03	Satellite-based communications system with terrestrial repeater and method thereof	Emmons, Jr., Thomas Peter; Peters, Robert Anthony; Hogberg, Shawn
45551	Patent Cooperation Treaty		PCT/US2000/027996	10-Oct-00	Inactive	Expired		SATELLITE-BASED COMMUNICATIONS SYSTEM WITH TERRESTRIAL REPEATER	Emmons, Jr., Thomas Peter; Peters, Robert Anthony; Hogberg, Shawn
45553	United States	6571102	09/634426	8-Aug-00	Granted		27-May-03	Channel management technique for asymmetric data services	Hogberg, Shawn; Taylor, Daniel R.; Redden, James Powers
45554	United States		08/453417	30-May-95	Inactive	Abandoned		Dispatch system and method of assigning a shared channel to remote units	Gregg, Ralph Charles; Krutz, Michael William
45554	United States	6577848	09/404871	21-Jan-98	Granted		10-Jun-03	Dispatch system and method of assigning a shared channel to remote units	Gregg, Ralph Charles; Krutz, Michael William
45556	United States	6603957	09/540727	31-Mar-00	Granted		5-Aug-03	Static and dynamic partnering schemes for satellite cross-links	Sherman, John A.; Diekelman, Dennis P.
45557	China P.R.	801021.8	801021.8	4-Apr-00	Granted		7-Apr-04	Method for seamless handover between communication networks	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	European Patent Convention		920101.3	4-Apr-00	Inactive	Abandoned		METHOD FOR SEAMLESS HANDOVER BETWEEN COMMUNICATIONS NETWORKS	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	France	2794596	7068	31-May-00	Inactive	Abandoned		METHOD FOR SEAMLESS HANDOVER BETWEEN COMMUNICATIONS NETWORKS	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	Hong Kong	1038671	2100018.6	3-Jan-02	Granted		8-Oct-04	METHOD FOR SEAMLESS HANDOVER BETWEEN COMMUNICATIONS NETWORKS	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	Japan		2001-500597	4-Apr-00	Inactive	Abandoned		Method for seamless handover between communication networks	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	Korea South	10-0603411	10-2001-7000463	4-Apr-00	Granted		13-Jul-06	Method for seamless handover between communication networks	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	Singapore		200100736-8	4-Apr-00	Inactive	Abandoned		Method for seamless handover between communication networks	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	United States	6614769	09/323924	1-Jun-99	Granted		2-Sep-03	Communications unit for seamless handover between networks and method of use thereof	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45557	Patent Cooperation Treaty		PCT/US2000/008894	4-Apr-00	Inactive	Expired		METHOD FOR SEAMLESS HANDOVER BETWEEN COMMUNICATIONS NETWORKS	Erlick, John Richard; Hanson, Duke Edward; Hogberg, Shawn; Eteminan, Isaac
45566	China P.R.	800589.3	800589.3	16-Mar-00	Granted		31-Dec-03	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45566	Germany	60020317.4	918063.9	16-Mar-00	Granted		25-May-05	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	European Patent Convention	1086453	918063.9	16-Mar-00	Inactive	Validated		NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Finland	1086453	918063.9	16-Mar-00	Inactive	Lapsed		NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	France	1086453	918063.9	16-Mar-00	Granted		25-May-05	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Great Britain	1086453	918063.9	16-Mar-00	Granted		25-May-05	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Hong Kong	1041739	1107509.8	29-Oct-01	Granted		30-Sep-04	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Japan		2000-612931	16-Mar-00	Inactive	Abandoned		NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Korea South	10-0676716	10-2000-7013593	16-Mar-00	Granted		24-Jan-07	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Sweden	1086453	918063.9	16-Mar-00	Granted		25-May-05	NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	Singapore	77760	200006895-5	16-Mar-00	Inactive	Lapsed		NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45566	United States	6618701	09/293901	19-Apr-99	Granted		9-Sep-03	METHOD AND SYSTEM FOR NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Chen, Ernest Pei-Ching; Springfield, Christopher Wayne
45566	Patent Cooperation Treaty		PCT/US7000/007090	16-Mar-00	Inactive	Expired		NOISE SUPPRESSION USING EXTERNAL VOICE ACTIVITY DETECTION	Piket, James Brian; Springfield, Christopher Wayne; Chen, Ernest Pei-Ching
45579	United States	6625129	09/410449	1-Oct-99	Granted		23-Sep-03	Demand assigned spatial multiplexing in satellite communication systems	Olds, Keith A.; Wagner, Carl Myron
45579	Patent Cooperation Treaty		PCT/US2000/023371	25-Aug-00	Inactive	Expired		DEMAND ASSIGNED SPATIAL MULTIPLEXING	Olds, Keith A.; Wagner, Carl Myron
45581	United States	6633621	09/531689	20-Mar-00	Inactive	Lapsed		Apparatus and method for synchronizing a clock using a phase-locked loop circuit	Bishop, Daniel Eric; Geler, George Jeffrey; Molfett, Jeffrey Scott; Schauer, George Arnburt; Hart, Roger Charles; Gross, Joel Lloyd
45582	China P.R.	812643.7	812643.7	26-Jun-00	Granted		3-Nov-04	Communications system load control methods and apparatus	Cimet, Israel Arie; Oxley, Derek Alan; Emmons, Jr., Thomas Peter
45582	China P.R.		812802.2	26-Jun-00	Inactive	Abandoned		Multi-airplane cellular communications system	Irwin, William George Carson; Kanne, Mark Melvin
45582	Cyprus	1224751	944890.3	26-Jun-00	Inactive	Abandoned		MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	Germany	60028067.5	944890.3	26-Jun-00	Granted		17-May-08	MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	European Patent Convention		950251.9	26-Jun-00	Filed			COMMUNICATIONS SYSTEM LOAD CONTROL METHODS AND APPARATUS	Oxley, Derek Alan; Emmons, Jr., Thomas Peter; Cimet, Israel Arie
45582	European Patent Convention	1224751	944890.3	26-Jun-00	Inactive	Validated		MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	France	1224751	944890.3	26-Jun-00	Granted		17-May-06	MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	Great Britain	1224751	944890.3	26-Jun-00	Granted		17-May-06	MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	Hong Kong	1050448	9101855.9	14-Mar-03	Granted		29-Apr-05	COMMUNICATIONS SYSTEM LOAD CONTROL METHODS AND APPARATUS	Oxley, Derek Alan; Emmons, Jr., Thomas Peter; Cimet, Israel Arie
45582	Luxembourg	1224751	944890.3	26-Jun-00	Inactive	Lapsed		MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	United States	7054641	10/070845	26-Jun-00	Granted		30-May-06	Communications system load control methods and apparatus	Oxley, Derek Alan; Emmons, Jr., Thomas Peter; Cimet, Israel Arie
45582	United States	6968187	10/070846	26-Jun-00	Granted		22-Nov-05	Multi-airplane cellular communications system	Irwin, William George Carson; Kanne, Mark Melvin
45582	United States	6642894	10/070844	26-Jun-00	Inactive	Lapsed		Smart antenna for airborne cellular system	Gross, Jonathan H.; Hanson, Duke E.; Emmons, Jr., Thomas Peter; Startup, James W.
45582	United States		60/153620	13-Sep-99	Inactive	Expired		Communications system load control methods and apparatus	
45582	Patent Cooperation Treaty		PCT/US2000/017501	26-Jun-00	Inactive	Expired		COMMUNICATIONS SYSTEM LOAD CONTROL METHODS AND APPARATUS	Oxley, Derek Alan; Emmons, Jr., Thomas Peter; Cimet, Israel Arie
45582	Patent Cooperation Treaty		PCT/US2000/017578	26-Jun-00	Inactive	Expired		MULTI-AIRPLANE CELLULAR COMMUNICATIONS SYSTEM	Irwin, William George Carson; Kanne, Mark Melvin
45582	Patent Cooperation Treaty		PCT/US2000/017555	26-Jun-00	Inactive	Expired		SMART ANTENNA FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Hanson, Duke E.; Emmons, Jr., Thomas Peter; Startup, James W.
45599	United States	6657979	09/379248	23-Aug-99	Granted		2-Dec-03	Reduced power consumption multiplexer using self-decoding power down logic	Patel, Lalit Odhavji; Mathes, William Oliver; Jurek, Kevin
45600	Germany	60039276.7	117625.4	16-Aug-00	Granted		25-Jun-08	Method for performing rapid handoffs in a wireless communication system using virtual connections	Salo, Darryl; Chu, Thomas S.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45600	European Patent Convention	1085679	117625.4	16-Aug-00	Inactive	Validated		Method for performing rapid handoffs in a wireless communication system using virtual connections	Sale, Darryl; Chu, Thomas S.
45600	France	1085679	117625.4	16-Aug-00	Granted		25-Jun-03	Method for performing rapid handoffs in a wireless communication system using virtual connections	Sale, Darryl; Chu, Thomas S.
45600	Great Britain	1085679	117625.4	16-Aug-00	Granted		25-Jun-03	Method for performing rapid handoffs in a wireless communication system using virtual connections	Sale, Darryl; Chu, Thomas S.
45600	Italy	1085679	117625.4	16-Aug-00	Granted		25-Jun-03	Method for performing rapid handoffs in a wireless communication system using virtual connections	Sale, Darryl; Chu, Thomas S.
45600	United States	6662011	09/398308	20-Sep-99	Granted		9-Dec-03	Method for performing rapid handoffs in a wireless communication system using virtual connections	Sale, Darryl; Chu, Thomas S.
45602	Brazil		111836	22-Jun-01	Filed			Doppler correction for airborne cellular system	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	Canada		2412912	22-Jun-01	Filed			DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	China P.R.	1811809.7	3811809.7	22-Jun-01	Granted		27-Apr-05	Doppler correction for airborne cellular system	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	Germany	60109782.3	1950395.2	22-Jun-01	Granted		30-Mar-05	DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	European Patent Convention	1297642	1950395.2	22-Jun-01	Inactive	Validated		DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	France	1297642	1950395.2	22-Jun-01	Granted		30-Mar-05	DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	Great Britain	1297642	1950395.2	22-Jun-01	Granted		30-Mar-05	DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	Italy	1297642	1950395.2	22-Jun-01	Granted		30-Mar-05	DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	Mexico	240245	2002/PA12794	22-Jun-01	Granted		13-Sep-06	DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM.	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	United States	6675013	09/605144	26-Jun-00	Inactive	Lapsed		Doppler correction and path loss compensation for airborne cellular system	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45602	Patent Cooperation Treaty		PCT/US2001/039991	22-Jun-01	Inactive	Expired		DOPPLER CORRECTION FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; White, Scott C.; Hanson, Duke E.
45613	United States	6678514	09/736489	13-Dec-00	Granted		13-Jan-04	Mobile personal security monitoring service	Wheeler, Jill Christine; Madine, Mary Maureen; McKibben, Bernard Richard
45613	Patent Cooperation Treaty		PCT/US2001/015620	15-May-01	Inactive	Expired		MOBILE PERSONAL SECURITY MONITORING SERVICE	Wheeler, Jill Christine; Madine, Mary Maureen; McKibben, Bernard Richard
45615	United States	6684056	09/546765	10-Apr-00	Granted		27-Jan-04	System for providing optimal satellite communication via a MEO/LEO satellite constellation	Emmons, Jr., Thomas Peter; Hogberg, Shawn W.; Matthews, Cynthia C.; Ince, Michael D.; Harris, Susan L.; Peters, Robert A.; Startup, James W.; Gross, Jonathan H.; Erick, John R.; Nelson, Allen H. 'Skip'; Fullerton, Craig L.; Helm, Jim E.; Lambrou, John G.; Krueger, David L.
45616	United States	6693877	09/390746	7-Sep-99	Granted		17-Feb-04	Data discard avoidance method	Hungl, Terry L.; Blenz, Richard A.
45616	Patent Cooperation Treaty		PCT/US2000/020149	24-Jul-00	Inactive	Expired		DATA DISCARD AVOIDANCE METHOD	Hungl, Terry L.; Blenz, Richard A.
45618	United States	6697619	09/459295	10-Dec-99	Granted		24-Feb-04	Digital beamforming acquisition system	Hogberg, Shawn Wesley; Gross, Jonathan Henry; Davieau, Gerald Joseph
45618	Patent Cooperation Treaty		PCT/US2000/028706	17-Oct-00	Inactive	Expired		DIGITAL BEAMFORMING ACQUISITION SYSTEM	Hogberg, Shawn Wesley; Gross, Jonathan Henry; Davieau, Gerald Joseph
45620	United States	6711407	09/615307	13-Jul-00	Granted		23-Mar-04	Array of processors architecture for a space-based network router	Cornilis, Curtis Lee
45621	United States	6724847	09/656006	6-Sep-00	Granted		20-Apr-04	Feed-forward symbol synchronizer and methods of operation therefor	Kallman, Kurt Albert; Knollmuller, Daniel James
45622	United States	6738902	09/483242	14-Jan-00	Granted		18-May-04	Systems and methods for controlling authorized intercept	Ruppert, William Henry; Carmony, Pamela Tamy Comer, Erwin Perry; Scott, William Turner
45623	United States	6745006	09/772152	29-Jan-01	Granted		1-Jun-04	COMMUNICATION SYSTEM UTILIZING A CONSTELLATION OF SATELLITES AND METHOD THEREFOR	Shaneyfelt, James T.
45624	United States	6765973	09/501801	9-Feb-00	Granted		20-Jul-04	Low power apparatus and algorithm for sub-rate bit acquisition and synchronization of high speed clockless data streams	Miller, Karl Eric; Wilcox, Loran Albert
45625	China P.R.	ZL00812616.X	00812616.X	8-Sep-00	Granted		7-Apr-04	Switchover system from one plane to another plane	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	Germany	60006564.2	964957.5	8-Sep-00	Granted		12-Nov-03	PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	European Patent Convention	1216525	964957.5	8-Sep-00	Inactive	Validated		PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45625	France	1216525	964957.5	8-Sep-00	Granted		17-Nov-03	PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	Great Britain	1216525	964957.5	8-Sep-00	Granted		12 Nov-03	PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	Hong Kong		3101931.7	17-Mar-03	Inactive	Abandoned		PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	Japan		2001-524272	8-Sep-00	Inactive	Abandoned		PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	United States	6768906	09/394548	13-Sep-99	Granted		27-Jul-04	System and technique for plane switchover in an aircraft based wireless communication system	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45625	Patent Cooperation Treaty		PCT/US2000/024831	8-Sep-00	Inactive	Expired		PLANE TO PLANE SWITCHOVER SYSTEM	Matthews, Cynthia C.; Emmons, Jr., Thomas Peter; Oxley, Derek A.
45634	China P.R.		1821047.3	10-Dec-01	Inactive	Abandoned		Multiple format secure voice appts. for communication handsets	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45634	European Patent Convention		1991048.8	10-Dec-01	Inactive	Abandoned		MULTIPLE FORMAT SECURE VOICE APPARATUS FOR COMMUNICATION HANDSETS	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45634	Hong Kong		4106620.1	3-Sep-04	Inactive	Abandoned		MULTIPLE FORMAT SECURE VOICE APPARATUS FOR COMMUNICATION HANDSETS	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45634	Japan		2002-553343	10-Dec-01	Inactive	Abandoned		MULTIPLE FORMAT SECURE VOICE APPARATUS FOR COMMUNICATION HANDSETS	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45634	Korea South	10-0871578	10-2003-7008205	10-Dec-01	Granted		26-Nov-08	MULTIPLE FORMAT SECURE VOICE APPARATUS FOR COMMUNICATION HANDSETS	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45634	United States	6782102	09/746385	21-Dec-00	Granted		24-Aug-04	Multiple format secure voice apparatus for communication handsets	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45634	Patent Cooperation Treaty		PCT/US2001/048168	10-Dec-01	Inactive	Expired		MULTIPLE FORMAT SECURE VOICE APPARATUS FOR COMMUNICATION HANDSETS	Blanchard, Scott D.; Vanden Hauvel, Dean P.
45641	Brazil		112182	27-Jun-01	Filed			TRANSPORTABLE INFRASTRUCTURE FOR AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Matthews, Cynthia C.; Madine, Mary M.; Fullerton, Craig L.; St. Peter, John Daniel
45641	Canada		2414259	27-Jun-01	Filed			TRANSPORTABLE INFRASTRUCTURE FOR AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Matthews, Cynthia C.; Madine, Mary M.; Fullerton, Craig L.; St. Peter, John Daniel
45641	European Patent Convention		1950635.1	27-Jun-01	Inactive	Abandoned		TRANSPORTABLE INFRASTRUCTURE FOR AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Matthews, Cynthia C.; Madine, Mary M.; Fullerton, Craig L.; St. Peter, John Daniel
45641	Mexico	238063	2002/PA12787	27-Jun-01	Granted		23-Jun-06	TRANSPORTABLE INFRASTRUCTURE FOR AIRBORNE CELLULAR SYSTEM.	McCraw, Dawn M.; Matthews, Cynthia C.; Madine, Mary M.; Fullerton, Craig L.; St. Peter, John Daniel
45641	United States	6804515	09/604143	27-Jun-00	Granted		12-Oct-04	Transportable infrastructure for airborne cellular system	McCraw, Dawn M.; Matthews, Cynthia C.; Madine, Mary M.; Fullerton, Craig L.; St. Peter, John Daniel
45641	Patent Cooperation Treaty		PCT/US2001/020690	27-Jun-01	Inactive	Expired		TRANSPORTABLE INFRASTRUCTURE FOR AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Matthews, Cynthia C.; Madine, Mary M.; Fullerton, Craig L.; St. Peter, John Daniel
45647	United States	6810275	09/742032	20-Dec-00	Granted		26-Oct-04	Hand-held communication device with vertically oriented antenna	Edwards, David W.; Schmidt, Kenneth H.; Grams, Richard E.
45648	Brazil		112184	22-Jun-01	Filed			Short code timing offsets in a CDMA system	Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Ameduri, Scott A.; Haverly, Michael B.
45648	Canada		2413032	22-Jun-01	Filed			Short code timing offsets in a CDMA system	Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Ameduri, Scott A.; Haverly, Michael B.
45648	China P.R.	1811784.8	1811784.8	22-Jun-01	Granted		13-Apr-05	SHORT CODE TIMING OFFSETS IN A CDMA SYSTEM	Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Ameduri, Scott A.; Haverly, Michael B.
45648	European Patent Convention		1953383.5	22-Jun-01	Inactive	Abandoned		Short code timing offsets in a CDMA system	Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Ameduri, Scott A.; Haverly, Michael B.
45648	Mexico	239710	2002/PA12796	22-Jun-01	Granted		23-Aug-06	Short code timing offsets in a CDMA system	HAVERLY MICHAEL B.
45648	United States	6813257	09/605663	26-Jun-00	Granted		2-Nov-04	Apparatus and methods for controlling short code timing offsets in a CDMA system	Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Ameduri, Scott A.; Haverly, Michael B.
45648	Patent Cooperation Treaty		PCT/US2001/019974	22-Jun-01	Inactive	Expired		Short code timing offsets in a CDMA system	Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Ameduri, Scott A.; Haverly, Michael B.
45655	United States	6823185	09/596567	19-Jun-00	Granted		23-Nov-04	Systems and methods for performing authorized intercept in a satellite-based communications system	Comer, Erwin Perry; Ruppert, William Henry; Carmony, Pamela Tam
45656	United States	6839519	09/675629	29-Sep-00	Granted		4-Jan-05	Laser crosslink methods and apparatus	Kleiner, Norbert; Tomren, Douglas Roy; Hartman, Davis Howard; Warble, Keith Vaelav
45657	United States	6842428	09/756563	8-Jan-01	Granted		12-Jan-05	Method for allocating communication network resources using adaptive demand prediction	Chen, Susan; Hogberg, Shawn



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45658	United States	6847997	09/553232	19-Apr-00	Granted		25-Jan-05	Communications network utilizing transmitter and channel diversity to mitigate path impairments	Kleiner, Norbert
45659	United States	6856803	09/605085	26-Jun-00	Granted		15-Feb-05	Method for maintaining candidate handoff list for airborne cellular system	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45660	China P.R.	1823422.4	1823422.4	29-Jun-01	Granted		15-Nov-06	CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45660	European Patent Convention		1957083.7	29-Jun-01	Inactive	Abandoned		CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45660	Hong Kong		5100953	4-Feb-05	Inactive	Abandoned		CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45660	Japan		2003-509670	29-Jun-01	Inactive	Abandoned		CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45660	Korea South		10-2003-7017179	29-Jun-01	Inactive	Abandoned		CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45660	Patent Cooperation Treaty		PCT/US2001/020822	29-Jun-01	Inactive	Expired		CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM	Gross, Jonathan H.; Emmons, Jr., Thomas Peter; Tessler, Michael A.
45666	United States	6909854	09/650927	29-Aug-00	Granted		21-Jun-05	Methods and apparatus for beam shaping in optical wireless communications system	Kleiner, Norbert; Chen, Diana C.; Bishop, Jr., James W.
45667	United States	6925566	09/612142	7-Jul-00	Granted		2-Aug-05	Remote system integrity verification	Felgen, Ronald Glen; Parona, Richard Allen; Lynn, James T.; Comer, Erwin Perry
45668	United States	7043022	09/447312	22-Nov-99	Granted		9-May-06	Packet order determining method and apparatus	Blanchard, Scott D.; Vanden Heuvel, Dean P.
45668	Patent Cooperation Treaty		PCT/US2000/028228	12-Sep-00	Inactive	Expired		Packet order determining method and apparatus	Blanchard, Scott D.; Vanden Heuvel, Dean P.
45670	United States	7065643	09/536577	28-Mar-00	Granted		20-Jun-06	Network compromise recovery methods and apparatus	Cornils, Curtis Lee; Comer, Erwin Perry
45671	United States	5515062	08/105227	11-Aug-93	Granted		7-May-96	Location system and method with acquisition of accurate location parameters	Maine, Kristine P.; Olds, Keith A.; Attwood, Stanley W.
45672	United States	5537679	08/283368	1-Aug-94	Granted		16-Jul-96	Communication network with flexible handoff scheduling for mobile nodes	Crosbie, Jeffrey S.; Baum, David M.; Krutz, Michael W.
45673	United States	5551059	08/331461	31-Oct-94	Granted		27-Aug-96	Method and system for intelligent cell selection using doppler data in cellular systems	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	Canada		2204267	14-Aug-95	Inactive	Abandoned		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	Germany		19581808.3	14-Aug-95	Inactive	Abandoned		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	India		1579/DCL/95	24-Aug-95	Inactive	Abandoned		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	Korea South		10-1997-0703011	14-Aug-95	Inactive	Abandoned		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	Malaysia		9502789	20-Sep-95	Inactive	Abandoned		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	Russian Federation		97108558/09	14-Aug-95	Inactive	Abandoned		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	United States	5551058	08/331463	31-Oct-94	Inactive	Lapsed		Method and system for intelligent cell selection using location data in cellular systems	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45674	Patent Cooperation Treaty		PCT/US1995/010323	14-Aug-95	Inactive	Expired		METHOD AND SYSTEM FOR INTELLIGENT CELL SELECTION USING LOCATION DATA IN CELLULAR SYSTEMS	Hutcheson, Jonathan E.; Natarajan, Kadathur S.; Leopold, Raymond J.
45682	Belgium	1297643	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Brazil		0112183-9	27-Jun-01	Filed			GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Canada		2413430	27-Jun-01	Filed			GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Germany	60105612.4	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Germany	60122191.1	4102041.3	27-Jun-01	Granted		16-Aug-06	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	European Patent Convention	1297643	1950636.9	27-Jun-01	Inactive	Validated		GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	European Patent Convention	1465357	4102041.3	27-Jun-01	Inactive	Validated		GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	France	1297643	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.



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Family ID	Country	Patent Number	Application Number	Application Date	Status	Sub-Status	Grant Date	Title	Inventors
45682	France	1465357	4102041.3	27-Jun-01	Granted		16-Aug-06	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Great Britain	1297643	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Great Britain	1465357	4102041.3	27-Jun-01	Granted		16-Aug-06	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Hong Kong		3107128.7	2-Oct-03	Inactive	Abandoned		GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Italy	1465357	4102041.3	27-Jun-01	Granted		16-Aug-06	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Luxembourg	1297643	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Mexico	239711	2002PA12797	27-Jun-01	Granted		23-Aug-06	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Netherlands	1297643	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Sweden	1297643	1950636.9	27-Jun-01	Granted		15-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	United States	6795699	09/604634	27-Jun-00	Granted		21-Sep-04	GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45682	Patent Cooperation Treaty		PCT/US2001/020691	27-Jun-01	Inactive	Expired		GEOLOCATION TECHNIQUES FOR AN AIRBORNE CELLULAR SYSTEM	McCraw, Dawn M.; Emmons, Jr., Thomas Peter; Gross, Jonathan H.; Berke, James F.
45701	Australia		1996/0046538	3-Jan-96	Inactive			LOGARITHM/INVERSE-LOGARITHM CONVERTER UTILIZING A TRUNCATED TAYLOR SERIES AND METHOD OF USE THEREOF	DWORKIN JAMES DOUGLAS; BUSS JOHN MICHAEL
45701	China P.R.		96191713.X	3-Jan-96	Inactive	Abandoned		LOGARITHM/INVERSE-LOGARITHM CONVERTER UTILIZING A TRUNCATED TAYLOR SERIES AND METHOD OF USE THEREOF	DWORKIN JAMES DOUGLAS; BUSS JOHN MICHAEL
45701	European Patent Convention		96902095.7	3-Jan-96	Inactive	Abandoned		LOGARITHM/INVERSE-LOGARITHM CONVERTER UTILIZING A TRUNCATED TAYLOR SERIES AND METHOD OF USE THEREOF	DWORKIN JAMES DOUGLAS; BUSS JOHN MICHAEL
45701	United States	5604691	08/381161	31-Jan-95	Inactive	Lapsed		Logarithm/inverse-logarithm converter utilizing a truncated Taylor series and method of use thereof	Dworkin, James D.; Buss, John M.
45701	Patent Cooperation Treaty		PCT/US1996/000145	3-Jan-96	Inactive	Expired		LOGARITHM/INVERSE-LOGARITHM CONVERTER UTILIZING A TRUNCATED TAYLOR SERIES AND METHOD OF USE THEREOF	DWORKIN JAMES DOUGLAS; BUSS JOHN MICHAEL
45706	United States	5600581	08/391880	22-Feb-95	Inactive	Lapsed		Logarithm/inverse-logarithm converter utilizing linear interpolation and method of using same	Dworkin, James D.; Giangarra, Philip B.; Smith, Stephen L.
45706	Patent Cooperation Treaty		PCT/US1996/001066	16-Jan-96	Inactive	Expired		LOGARITHM/INVERSE-LOGARITHM CONVERTER UTILIZING LINEAR INTERPOLATION AND METHOD OF USING SAME	DWORKIN JAMES DOUGLAS; GIANGARRA PHILIP BENEDICT; SMITH STEPHEN L.
45708	United States	5444450	08/105219	11-Aug-93	Inactive	Lapsed		Radio telecommunications system and method with adaptive location determination convergence	Olds, Keith A.; Maine, Kristine P.
63384	Patent Cooperation Treaty		PCT/US1998/018274	3-Sep-98	Inactive	Expired		COMMUNICATIONS CHANNEL EFFECTS MITIGATION METHOD AND APPARATUS	Leopold, Raymond Joseph; Ibanez-Meler, Rodrigo; Turcotte, Randy Lee

