YOUNG CONAWAY STARGATT & TAYLOR, LLP

BEN T. CASTLE
SHELDON N. SANDLER
RICHARD A. LEVINE
RICHARD A. ZAPPA
FREDERICK W. IOBST
RICHARD H. MORSE
DAVID C. MCBRIDE
JOSEPH M. NICHOLSON
CRAIG A. KARSNITZ
BARRY M. WILLOUGHBY
JOSY W. INGERSOLL
ANTHONY G. FLYNN
JEROME K. GROSSMAN
EUGENE A. DIPRINZIO
JAMES L. PATTON, JR.
ROBERT L. THOMAS
WILLIAM D. JOHNSTON
TIMOTHY J. SNYDER
BRUCE L. SILVERSTEIN
WILLIAM W. BOWSER
LARRY J. TARABICOS
RICHARD A. DILIBERTO, JR.
MELANIE K. SHARP
CASSANDRA F. ROBERTS
RICHARD J.A. POPPER
TERESA A. CHEEK
NEILLI MULLEN WALSH
JANET Z. CHARLTON

ROBERT S. BRADY
JOEL A. WAITE
BRENT C. SHAFFER
DANIEL P. JOHNSON
CRAIG D. GREAR
TIMOTHY JAY HOUSEAL
MARTIN S. LESSNER
PAULINE K. MORGAN
C. BARR FLINN
NATALIE WOLF
LISA B. GOODMAN
JOHN W. SHAW
JAMES P. HUGHES, JR.
EDWIN J. HARRON
MICHAEL R. NESTOR
MAUREEN D. LUKE
ROLIN P. BISSELL
SCOTT A. HOLT
JOHN T. DORSEY
M. BLAKE CLEARY
CHRISTIAN DOUGLAS WRIGHT
DANIELLE GIBBS
JOHN J. PASCHETTO
NORMAN M. POWELL
ELENA C. NORMAN
EDMON L. MORTON
JOHN E. TRACEY

THE BRANDYWINE BUILDING
1000 WEST STREET, 17TH FLOOR
WILMINGTON, DELAWARE 19801

P.O. BOX 391
WILMINGTON, DELAWARE 19899-0391

(302) 571-6600
(800) 253-2234 (DE ONLY)
FAX: (302) 571-1253

110 WEST PINE STREET
P.O. BOX 594
GEORGETOWN, DELAWARE 19947
(302) 856-3571
(800) 255-2234 (DE ONLY)
FAX: (302) 856-9338

WWW.YOUNGCONAWAY.COM

DIRECT DIAL: (302)571-5028
DIRECT FAX: (302) 576-3509
mdugan@ycst.com

JOSEPH M. BARRY
RYAN M. BARTLEY
SEAN M. BEACH
SANJAY BHATNAGAR
DONALD J. BOWMAN, JR.
MICHELE SHERRETTA BUDICAK
JEFFREY T. CASTELLANO
DOUGLAS T. COATS (MD ONLY)
KARA HAMMOND COYLE
KRISTEN SALVATORE DEPALMA
MARGARET M. DIBIANCA
MARY F. DUGAN
ERIN EDWARDS
KENNETH J. ENOS
KERRIANNE MARIE FAY
IAN S. FREDERICKS
JAMES J. GALLAGHER
WILLIAM E. GAMGORT
SEAN T. GREECHER
NATHAN D. GROW
STEPHANIE L. HANSEN
JAMES L. HIGGINS
PATRICK A. JACKSON
DAWN M. JONES
KAREN E. KELLER

SPECIAL COUNSEL
JOHN D. MCLAUGHLIN, JR.
KAREN L. PASCALE
SETH J. REIDENBERG
PATRICIA A. WIDDOSS

JENNIFER M. KINKUS
EDWARD J. KOSMOWSKI
EVANGELOS KOSTOULAS
JOHN C. KUFFEL
TIMOTHY E. LENGKEEK
ANDREW A. LUNDGREN
MATTHEW B. LUNN
ADRIA B. MARTINELLI
KATHALEEN MCCORMICK
MICHAEL W. MCDERMOTT
TAMMY L. MERCER
MARIBETH L. MINELLA
D. FON MUTTAMARA-WALKER
JENNIFER R. NOEL
ADAM W. POFF
ROBERT F. POPPITI, JR.
SARA BETH A. REYBURN
CHERYL A. SANTANIELLO
MONTÉ T. SQUIRE
MICHAEL P. STAFFORD
CHAD S.C. STOVER
RICHARD J. THOMAS
TRAVIS N. TURNER
MARGARET B. WHITEMAN
SHARON M. ZIEG

SENIOR COUNSEL
CURTIS J. CROWTHER

OF COUNSEL
BRUCE M. STARGATT
STUART B. YOUNG
EDWARD B. MAXWELL, 2ND

March 31, 2008

BY E-FILE

The Honorable Joseph J. Farnan, Jr.
United States District Court of Delaware
844 North King Street
Wilmington, DE 19801

Re: *Rates Technology, Inc., v. Qwest Communications, Co., et al.*
C. A. No.: 07-442 (JJF)

Dear Judge Farnan:

On behalf of defendants Qwest Communications Corporation and Qwest Communications International, Inc., (collectively, "Qwest"), we write to inform the Court that, on March 7, 2008, the Patent Office issued a Final Rejection in the reexamination of patent in suit U.S. Patent No. 5,425,085 ("the '085 patent") (Final Rejection attached as Exhibit A).

With this Final Rejection, *all* assertable claims of the '085 patent are *finally* rejected as unpatentable. The final rejection *closes* prosecution on the '085 patent reexamination, effectively barring Defendant Rates from making further comment or amendment to any assertable claims for the Examiner's consideration. Now, Rates' only recourse to retain some version of the claims is to appeal the final rejection to the Board of Patent Appeals and Interferences by May 7, 2008.

Qwest is simultaneously filing a motion for continued stay pending the conclusion of all proceedings before the Patent Office arising out of the reexamination of the '085 patent.

Respectfully,

Mary F. Dugan (No. 4704)

cc: Clerk of the Court (Hand Delivery)
Steven M. Bauer, Esquire
Mary B. Matterer, Esquire
Robert L. Epstein, Esquire

EXHIBIT A

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/007,939	02/14/2006	5425085	61749/4	9558

7590 03/07/2008

EXAMINER

Robert L. Epstein ESQ.
EPSTEIN DRANGEL BAZERMAN & JAMES LLP
60 East 42nd St.
Suite 820
New York, NY 10165

ART UNIT	PAPER NUMBER

DATE MAILED: 03/07/2008

Please find below and/or attached an Office communication concerning this application or proceeding.

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

KORY D. CHRISTENSEN
STOEL RIVES LLP
201 SOUTH MAIN ST.
ONE UTAH CENTER, SUITE 1100
SALT LAKE CITY, UT 84111

MAILED

MAR 07 2008

CENTRAL REEXAMINATION UNIT

EX PARTE REEXAMINATION COMMUNICATION TRANSMITTAL FORM

REEXAMINATION CONTROL NO. *90/007,939*.

PATENT NO. *5425085*.

ART UNIT *3992*.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified *ex parte* reexamination proceeding (37 CFR 1.550(f)).

Where this copy is supplied after the reply by requester, 37 CFR 1.535, or the time for filing a reply has passed, no submission on behalf of the *ex parte* reexamination requester will be acknowledged or considered (37 CFR 1.550(g)).

Office Action in Ex Parte Reexamination	Control No. 90/007,939	Patent Under Reexamination 5425085	
	Examiner Joseph R. Pokrzywa	Art Unit 3992	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

a☒ Responsive to the communication(s) filed on *26 July 2007* . b☒ This action is made FINAL.
c☐ A statement under 37 CFR 1.530 has not been received from the patent owner.

A shortened statutory period for response to this action is set to expire *2* month(s) from the mailing date of this letter. Failure to respond within the period for response will result in termination of the proceeding and issuance of an *ex parte* reexamination certificate in accordance with this action. 37 CFR 1.550(d). **EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c).** If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. ☐ Notice of References Cited by Examiner, PTO-892.
2. ☐ Information Disclosure Statement, PTO/SB/08.
3. ☐ Interview Summary, PTO-474.
4. ☐ _____.

Part II SUMMARY OF ACTION

1a. ☒ Claims *1-29* are subject to reexamination.
1b. ☐ Claims _____ are not subject to reexamination.
2. ☐ Claims _____ have been canceled in the present reexamination proceeding.
3. ☒ Claims *6 and 17* are patentable and/or confirmed.
4. ☒ Claims *1-5, 7-16, 18-29* are rejected.
5. ☐ Claims _____ are objected to.
6. ☐ The drawings, filed on _____ are acceptable.
7. ☐ The proposed drawing correction, filed on _____ has been (7a)☐ approved (7b)☐ disapproved.
8. ☐ Acknowledgment is made of the priority claim under 35 U.S.C. § 119(a)-(d) or (f).
   a)☐ All b)☐ Some* c)☐ None of the certified copies have
   1☐ been received.
   2☐ not been received.
   3☐ been filed in Application No. _____ .
   4☐ been filed in reexamination Control No. _____.
   5☐ been received by the International Bureau in PCT application No. _____.
   * See the attached detailed Office action for a list of the certified copies not received.
9. ☐ Since the proceeding appears to be in condition for issuance of an *ex parte* reexamination certificate except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.
10. ☐ Other: _____

Joseph R Pokrzywa

JOSEPH R POKRZYWA
PRIMARY EXAMINER
CRU - AU 3992

cc: Requester (if third party requester)

Ex Parte Reexamination Communication	Control No. 90/007,939	Patent Under Reexamination 5425085	
	Examiner Joseph R. Pokrzywa	Art Unit 3992	

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS ACTION IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS LETTER. EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.550(c). If the specified period for response is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.

Joseph R. Pokrzywa
Primary Examiner
Art Unit: 3992

cc: Requester (if third party requester)

DETAILED ACTION

Response to Amendment

1. Patent Owner's amendment was received on 7/26/07, and has been entered and made of record. Currently, claims 1-29 of U.S. Patent Number 5,425,085 (hereafter "the '085 Patent") are pending, with claims 27-29 being newly added.

2. In the previous Office action, dated 5/21/07, **claims 6 and 17** were deemed as patentable, while **claims 1-5, 7-16, and 18-26** were rejected in the following manner:

Claims 1-5, 7-10, and 13 were rejected under 35 U.S.C. 102(b) as being anticipated by "Starplus SPX: General Description Installation and Maintenance Manual", published by Vodavi Communication Systems, dated September 1990 (hereafter "Vodavi");

Claims 1-5, 7-10, 13-16, 18, 19, and 22-26 were rejected under 35 U.S.C. 102(b) as being anticipated by the publication "ISOETEC System/228: Technical Manual", published by ISOETEC Communications, Inc. and dated July 1998 (hereafter "Isoetec");

Claims 1, 2, 5, 7, and 10 were rejected under 35 U.S.C. 102(b) as being anticipated by the UK Patent Application No. 2,218,595, with the applicant being STC PLC, being published November 15, 1989 (hereafter "STC'595");

Claims 1-5, and 7-11 were rejected under 35 U.S.C. 102(b) as being anticipated by Jabs *et al.* (U.S. Patent Number 5,173,933), issued on Dec. 22, 1992 (hereafter "Jabs");

Claim 12 was rejected under 35 U.S.C. 103(a) as being unpatentable over Jabs.

Claims 20 and 21 were rejected under 35 U.S.C. 103(a) as being unpatentable over Isoetec in view of Jabs.

3. The declarations of Roger C. Lee and Gerald Weinberger filed on 7/26/07 under 37 CFR 1.131 have been considered but are ineffective to overcome each of the references of Vodavi, Isoetec, STC'595, and Jabs.

4. Particularly, each of the references of Vodavi, Isoetec, STC'595, and Jabs were published over one year before the filing date of the instant application (08/210,670) of March 18, 1994, which became the '085 Patent, thus being a statutory bar under 35 U.S.C. 102(b), and therefore cannot be overcome by an affidavit or declaration under 37 CFR 1.131.

Response to Arguments

5. Patent Owner's arguments filed 7/26/07, with respect to the STC'595 reference, as read on pages 34-37, have been fully considered and are persuasive. The rejection of claims 1, 2, 5, 7, and 10 under 35 U.S.C. 102(b) as being anticipated by STC'595 has been withdrawn.

6. Particularly, the examiner agrees that STC'595 fails to expressly teach of a database in which billing parameters for determining a least cost communication path, and a means for addressing the database for identifying communication paths. However, STC'595 can be interpreted as inherently including a "means for comparing the cost rate of each path so as to determine a least cost route", as the reference states on page 3, para. 4 through page 4, para. 1, that the system "routes calls to the MCL network when it is cheaper to do so." Contrarily, while STC'595 does state on page 5, para. 2 that "A look-up table will be stored...which could have a default data base installed", the reference falls short of teaching that the database particularly stores "billing rate parameters for determining a least cost communication path". Further, STC'595 does not particularly discuss of "addressing the database for identifying communication paths". Thus, the rejection of claims 1, 2, 5, 7, and 10 under 35 U.S.C. 102(b) as being anticipated by the UK Patent Application No. 2,218,595 (STC'595), is withdrawn.

7. Patent Owner's arguments filed 7/26/07, regarding the rejections of independent claims 1, 14, and 24 by the references of Vodavi, Isoetec, and Jabs have been fully considered, but they are not persuasive.

8. Briefly, claim 1 requires a housing forming an enclosure having two jack means, a switch means for disconnecting the telephone, a means for generating a current through the switch means, a database means, a means for detecting and storing a telephone number, a means for identifying a plurality of paths and the cost rate of each path, means for comparing the cost rates so as to determine a least cost route, and means for generating a number sequence so as to route the call through the selected communication path.

9. The Patent Owner begins that the cited prior art of record fails to expressly disclose the claimed "switch means" of each of claims 1, 14, and 24. For instance, the Patent Owner argues on pages 28-30, with respect to Vodavi, and pages 32-34, with respect to Isoetec, that the references fail to teach of the switch means, as the references do not act to disable the signaling function of the telephone during route selection by disconnecting the telephone from the network. First, in response to these arguments regarding the "switch means", the examiner notes that, as independent claims 1, 14, and 24 are currently worded, the "disabling of the signaling function of the telephone during route selection by disconnecting the telephone from the network" is not particularly required. As an example, claim 1 currently requires "switch means operatively connected to said first jack means for disconnecting said first telephone from said network". There is no mention of disconnecting the telephone "to disable the signaling function

during route selection". The Patent Owner describes the "switch means" based on embodiments in the specification, as noted on pages 25 and 26 of the Remarks, which describe a switch that disconnects the telephone network during route selection.

10. In this regard, MPEP 2111.01 states that:

> >II. IT IS IMPROPER TO IMPORT CLAIM LIMITATIONS FROM THE SPECIFICATION "Though understanding the claim language may be aided by explanations contained in the written description, **it is important not to import into a claim limitations that are not part of the claim**. For example, a particular embodiment appearing in the written description may not be read into a claim when the claim language is broader than the embodiment." Superguide Corp. v. DirecTV Enterprises, Inc., 358 F.3d 870, 875, 69 USPQ2d 1865, 1868 (Fed. Cir. 2004). See also Liebel-Flarsheim Co. v. Medrad Inc., 358 F.3d 898, 906, 69 USPQ2d 1801, 1807 (Fed. Cir. 2004)(discussing recent cases wherein the court expressly rejected the contention that if a patent describes only a single embodiment, the claims of the patent must be construed as being limited to that embodiment);< E-Pass Techs., Inc. v. 3Com Corp., 343 F.3d 1364, 1369, 67 USPQ2d 1947, 1950 (Fed. Cir. 2003) ("Interpretation of descriptive statements in a patent's written description is a difficult task, as an inherent tension exists as to whether a statement is a clear lexicographic definition or a description of a preferred embodiment. The problem is to interpret claims in view of the specification' without unnecessarily importing limitations from the specification into the claims."); Altiris Inc. v. Symantec Corp., 318 F.3d 1363, 1371, 65 USPQ2d 1865, 1869-70 (Fed. Cir. 2003) (Although the specification discussed only a single embodiment, **the court held that it was improper to read a specific order of steps into method claims where, as a matter of logic or grammar, the language of the method claims did not impose a specific order on the performance of the method steps**, and the specification did not directly or implicitly require a particular order). See also paragraph *>IV.<, below. **>When< an element is claimed using language falling under the scope of 35 U.S.C. 112, 6th paragraph (often broadly referred to as means or step plus function language)**, the specification must be consulted to determine the structure, material, or acts corresponding to the function recited in the claim. In re Donaldson, 16 F.3d 1189, 29 USPQ2d 1845 (Fed. Cir. 1994) (see MPEP § 2181- § 2186). [Emphasis added.]

11. Further, MPEP 2106 [R-5] states, in part:

> >USPTO personnel are to give claims their broadest reasonable interpretation in light of the supporting disclosure. In re Morris, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997). **Limitations appearing in the specification but not recited in the claim should not be read into the claim**. E-Pass Techs., Inc. v. 3Com Corp., 343 F.3d 1364, 1369, 67 USPQ2d 1947, 1950 (Fed. Cir. 2003) (claims must be interpreted "in view of the specification" without importing limitations from the specification into the claims unnecessarily). In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969). See also In re Zletz, 893 F.2d 319, 321-22, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989) ("**During patent examination the pending claims must be interpreted as broadly as their terms reasonably allow**.... The reason is simply that during patent prosecution when claims can be amended, ambiguities should be recognized, scope and breadth of language explored, and clarification imposed.... An essential purpose of patent examination is to fashion claims that are precise, clear, correct, and unambiguous. Only in this way can uncertainties of claim scope be removed, as much as possible, during the administrative process.").< [Emphasis added.]

12. Thus, in the instant case, the claimed "switch means" is simply a "means" that has the function "for disconnecting said first telephone from said network", whereby no specific "double-pole, double-throw switch", as argued by the Patent Owner on page 25, is required in the current claim language. Further, reading a specific order into the claims would be improper, as indicated in the case law above. Thus, there is no requirement that the disconnecting of the telephone occurs during route selection, or before the generating of a current through the switch means. Therefore, independent claim 1, as well as independent claim 14, as currently worded, simply require a means that can disconnect the telephone from the network.

13. With this, in response to Paten Owner's arguments on pages 29 and 30, with respect to Vodavi, as noted in the Office action dated 5/21/07, Vodavi can be interpreted as teaching of a means that has a function of disconnecting the telephone with the network. On page 400-6 of Vodavi, the "CO/FX/WATS trunk Board (COT8)" "is a loopstart 2 wire interface to the telephone network", whereby "Detection circuitry is provided for disconnect supervision". Further, on pages 400-8 of Vodavi, the "TIE Trunk Board (EMT4)" "provides the interface for four E & M type 4 wire trunks", and on page 400-9, Vodavi continues with "The EMT4 board also has the detection circuitry for disconnect supervision". Thus, these boards, which have the detection circuitry for disconnect supervision, provide a function of disconnecting the telephone from the network, and therefore, can be viewed as "switch means ...for disconnecting said first telephone from said network".

14. Continuing, claim 1 additionally requires "means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network". As described in page 400-8, Vodavi states that in the TIE Trunk Board (EMT4), "The E and M pair are DC signaling used for call set-up handshaking. The E lead receives signals from the network (CO side) and the M lead transmits signals to the network." Thus, the TIE Trunk Board includes "means for generating current through the switch means to the first telephone, corresponding to a current provided by said network." Additionally, claim 1 requires a means for detecting and storing said telephone number, and a means for generating a number sequence, which are both "operatively connected to said switch means". Vodavi teaches of a plurality of boards being connected within the Basic Cabinet, as

seen in pages 400-1 through 400-13, as well as on page 500-4. Thus, this can be interpreted as being operatively connected to the switch means.

15. Continuing, the Patent Owner argues on pages 31 and 32 that the billing parameters for the possible routes are not stored in the database. Additionally, the Patent Owner argues that Vodavi fails to teach of the database memory, containing the actual billing parameters associated with each possible route, whereby subsequent to the detection of the dialed number, the database is accessed and the cost rate of the call for each possible route is obtained based upon the stored billing parameters, as the Patent Owner argues that Vodavi teaches of a pre-determined route preference hierarchy. However, the current claim language does not particularly require "billing parameters **associated with each possible route**", as claim 1 only requires "database means for storing billing parameters for determining a least cost communication path". The examiner notes that claim 1 currently requires "database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number", and "means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path". The current claim language does not particularly define "billing rate parameters", and does not particularly state that the "cost rate" is stored in the database or is considered as the "billing rate parameter". Further, the billing rate parameters do not necessarily need to be associated with each possible route, as argued.

16. As noted above, during patent examination, pending claims must be interpreted as broadly as their terms reasonably allow. With this, as seen on page 660-16, Vodavi teaches of adding least cost routing route list tables. Thus, the route list tables can be viewed in a broad and reasonable interpretation as being "billing rate parameters", as the tables contain data that is characteristic of the Least Cost Route, therein being a billing rate parameter. As read in page 300-5, Vodavi states "In order for the LCR to operate, the LCR feature must be activated in the system and the routing data must be entered into the database." Further, on page 660-16, Vodavi states that "This command allows the user to add route lists for LCR use to the system". Additionally, as read in page 640-1 through 640-5, Vodavi teaches of using TOLL tables. These TOLL tables can also be considered as "billing rate parameters".

17. Further, the Patent Owner additionally argues on page 31 that Vodavi does not teach of comparing the cost of each route after the number is dialed, and not on the basis of a pre-determined route preference hierarchy. The examiner notes that the claim does not require this comparison occurring "subsequent to the detection of the dialed number". As noted above, claim 1 currently requires "database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number". With this, Vodavi states on page 200-8 that the Least Cost Routing allows the automatic selection of the most economical trunk according to the number dialed, with "The trunk groups within each route list entry may ordered so that the most economical will be the first choice, the second most economical group is the second choice, etc." Thus, the cost rate of each path was compared at some point, so as to determine the most economical, the second most economical, etc.

Therefore, using a broad, and reasonable interpretation, Vodavi is seen as teaching of "means for comparing the cost rate of each path so as to determine a least cost route".

18. Therefore, the rejection of claims 1-5, 7-10, and 13, as cited in the Office action dated 5/21/07, as being anticipated by Vodavi, is maintained and repeated in this Office action.

19. Continuing, in response to Patent Owner's arguments on pages 32-34 regarding the rejection of independent claims 1, 14 and 24 as being anticipated by Isoetec, the reference of Isoetec is seen to teach of the "switch means". Similar to the discussion above with respect to Vodavi, Isoetec is also seen to teach of a means for disconnecting the telephone to the network. Isoetec discloses on page 4.131 that by pressing the RLS key or the switch-hook, a call is disconnected. Further, as read in page 12.4, Isoetec states that "Normally, if the LCR key is pressed during a call, the call is disconnected and a new LCR dial tone is connected to the station." Thus, these sections show that Isoetec includes a means that disconnects the telephone from the network. Further, as seen on pages 1.5-1.15, a number of port cards are utilized, along with the CPU and the Voice and Data Control Modules. Additionally, on page 1.8, Isoetec states "The Voice Control Module (p/n 15400) contains the circuitry necessary for voice switching and conference connections." Therefore, Isoetec can be interpreted as including a means for disconnecting said first telephone from said network, as required in the current claim language.

20. Thus, the rejection of claims 1-5, 7-10, 13-16, 18, 19, and 22-26, as cited in the Office action dated 5/21/07, as being anticipated by Isoetec, is maintained and repeated in this Office action.

21. Continuing, the Patent Owner argues on page 38 that the Jabs reference fails to teach if the current generated by the interface is ever supplied to any station, much less through a "switch means". However, the claim does not require this. As discussed above, claim 1 requires "a switch means operatively connected to said first jack means for disconnecting said first telephone from said network, means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network". Further, the Patent Owner argues on pages 38 and 39 that the telecommunication stations, or shipboard telephones, as taught by Jabs, are powered by electrical generators on the ship, thus, not having the stations powered by current from a telephone network. However, nowhere does claim 1 expressly state that the device is powered from current from the telephone network. Contrarily, claim 1 requires "a means...for generating a current..." Thus, Jabs can be interpreted as teaching the limitations of the claim.

22. Continuing, on pages 39-40, the Patent Owner argues that Jabs does not teach of comparing stored cost rates for the various communication carriers or media to determine the

least cost route, and thus does not disclose a database for storing billing parameters for the various communication carriers or media, addressing circuitry to obtain the cost rates for each of the communication carriers or media, or circuitry for comparing the cost rates to determine a least cost rate. Currently, claim 1 further requires "database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number, ...means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path, means for comparing the cost rate of each path so as to determine a least cost route..." First, as currently worded, claim 1 does not specifically require "comparing **stored** cost rates" for the various communication paths, as the claim does not state that cost rates are stored, as only "billing rate parameters" are stored in the database means. Further, claim 1 does not specifically require "addressing **circuitry to obtain** cost rates", as the claim requires means for identifying the cost rate.

23. As noted in the Office action dated 5/21/07, Jabs teaches of a database storing billing rate parameters in col. 12, lines 39-46, wherein "A plurality of tables are constructed to encompass both standard and off-peak rates. The tables are structured such that the least expensive CES resides at the top of the table and progressively more expensive coast earth stations towards the bottom." This table of standard and off-peak rates can be considered as a database means that stores billing rate parameters. Further, these standard and off-peak rates are "identified" such that the "least expensive CES resides at the top of the table and progressively more expensive coast earth stations towards the bottom". Continuing, because the table of rates is structured this

way, it is clear that the system of Jabs inherently compares the "cost rates of each path so as to determine a least cost route".

24. Therefore, the rejection of claims 1-5, 7-11, as cited in the Office action dated 5/21/07, as being anticipated by Jabs, is maintained and repeated in this Office action.

Claim Rejections - 35 USC § 102

25. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

26. **Claims 1-5, 7-10, and 13** are rejected under 35 U.S.C. 102(b) as being anticipated by "Starplus SPX: General Description Installation and Maintenance Manual", published by Vodavi Communication Systems, dated September 1990 (hereafter "Vodavi").

Regarding ***claim 1***, Vodavi discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to

said first telephone when said first telephone is in use [see page 200-8; also see page 300-5; also see page 320-13; also see page 500-18], comprising

a housing forming an enclosure and comprising first jack means for connection to said first telephone and second jack means for connection to said network [see pages 400-2 and 500-2, being the "Basic Cabinet"; also see pages 400-5 through 400-11; also see page 500-16],

switch means operatively connected to said first jack means for disconnecting said first telephone from said network [see page 100-1; also see pages 400-5 through 400-11; also see page 500-16],

means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network [see pages 410-1 through 410-2; also see page 500-16],

database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number [see page 200-8; also see page 300-5, wherein "In order for the LCR to operate, the LCR feature must be activated in the system and the routing data must be entered into the database."; also see pages 660-1 through 660-28, for instance page 660-16, wherein "This command allows the user to add route lists for LCR use to the system. There are sixteen route lists in the system. Each route can have four different time period entries. In each time period, eight trunk groups can have different priority numbers and can reference different insert and delete tables."],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone means for addressing said database means

for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [see page 300-5; also see page 400-5; also see pages 660-1 through 660-28],

means for comparing the cost rate of each path so as to determine a least cost route [see page 200-8, wherein "The trunk groups within each route list entry may be ordered so that the most economical group will be the first choice, the second most economical group is the second choice, etc."; also see page 300-5], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone phone [see page 200-8; also see page 300-5, wherein "The dialed digits (or modified dialed digits) are outpulsed on the trunk."].

Regarding ***claim 2***, Vodavi discloses the device discussed above in claim 1, and further teaches that said least cost communication path parameters include the time and date of the call [see page 300-5].

Regarding ***claim 3***, Vodavi discloses the device discussed above in claim 1, and further teaches that said switch means connects said first telephone to said network during an incoming call [see page 200-4].

Regarding ***claim 4***, Vodavi discloses the device discussed above in claim 1, and further teaches that an internal power supply connected to said means for generating a current [see Figure 400.1 on page 400-2].

Regarding ***claim 5***, Vodavi discloses the device discussed above in claim 1, and further teaches that said means for generating said number sequence comprises a dual tone multifrequency generator [see page 400-5].

Regarding ***claim 7***, Vodavi discloses the device discussed above in claim 1, and further teaches that said detecting means includes a dual tone multifrequency detector [see page 400-5].

Regarding ***claim 8***, Vodavi discloses the device discussed above in claim 1, and further teaches of means for maintaining the time and date so as to determine the least cost route based on the time and date of the call [see pages 200.11, 230-2, and 300-5].

Regarding ***claim 9***, Vodavi discloses the device discussed above in claim 1, and further teaches that said cost may be given a bias for preference to a given carrier [see page 620-43, being the priority level].

Regarding ***claim 10***, Vodavi discloses the device discussed above in claim 1, and further teaches of means for updating said database means with a current billing rate schedule [see pages 600-1 and 660-1 through 660-28].

Regarding ***claim 13***, Vodavi discloses the device discussed above in claim 10, and further teaches that said update means includes a modem for receiving signals through said telephone line and downloading the update information [see Figure 400.4 on page 400-5, being the "Modem Unit"; also see pages 400-19 and 600-1].

27. **Claims 1-5, 7-10, 13-16, 18, 19, and 22-29** are rejected under 35 U.S.C. 102(b) as being anticipated by the publication "ISOETEC System/228: Technical Manual", published by ISOETEC Communications, Inc. and dated July 1998 (hereafter "Isoetec").

Regarding ***claim 1***, Isoetec discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to said first telephone when said first telephone is in use [see section 1.5 on page 1.18; also see sections 10.1 and 10.2 on pages 10.1-10.3; also see section 10.6 on page 10.4], comprising

a housing forming an enclosure [228 Cabinet with the Main Distribution Frame (MDF) on page 2.7 (Figure 2-1) and page 3.2 (Figure 3-1)] and comprising first jack means for connection to said first telephone and second jack means for connection to said network [see pages 1.2 and 1.5-1.15; also see pages 3.6-3.9; also see sections 3.6-3.9 on pages 3.20-3.23],

switch means operatively connected to said first jack means for disconnecting said first telephone from said network [see pages 1.5-1.15; also see sections 3.6-3.9 on pages 3.20-3.23; also see pages 4.131 and 4.146],

means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network [see pages 1.5-1.16; also see sections 3.6-3.9 on pages 3.20-3.23],

database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number [see page 4.102-4.104; also see pages 10.1-10.6, being the customized LCR Database; also see section 15.2],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [see pages 4.102-4.104; also see Figure 10-1 and pages 10.1-10.6, wherein "This information includes number and types of facilities and services used, and the customer's area code and exchange"; also see pages 4.103, 4.104 and 4.220],

means for comparing the cost rate of each path so as to determine a least cost route [see page 10.1; also see pages 4.102 and 4.103], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone phone [see pages 10.1-10.9; also see pages 4.102-4.104].

Regarding ***claim 2***, Isoetec discloses the device discussed above in claim 1, and further teaches that said least cost communication path parameters include the time and date of the call [see pages 10.1-10.9; also see pages 4.102-4.112].

Regarding ***claim 3***, Isoetec discloses the device discussed above in claim 1, and further teaches that said switch means connects said first telephone to said network during an incoming call [see page 1.21; also see pages 4.9-4.15].

Regarding ***claim 4***, Isoetec discloses the device discussed above in claim 1, and further teaches that an internal power supply connected to said means for generating a current [see page 1.16].

Regarding ***claim 5***, Isoetec discloses the device discussed above in claim 1, and further teaches that said means for generating said number sequence comprises a dual tone multifrequency generator [see pages 1.2, 1.8, and 1.15].

Regarding ***claim 7***, Isoetec discloses the device discussed above in claim 1, and further teaches that said detecting means includes a dual tone multifrequency detector [see pages 1.2, 1.8, and 1.15].

Regarding ***claim 8***, Isoetec discloses the device discussed above in claim 1, and further teaches of means for maintaining the time and date so as to determine the least cost route based on the time and date of the call [see pages 10.1-10.9; also see pages 4.102-4.112].

Regarding ***claim 9***, Isoetec discloses the device discussed above in claim 1, and further teaches that said cost may be given a bias for preference to a given carrier [see pages 10.1-10.9; also see pages 4.102-4.112].

Regarding ***claim 10***, Isoetec discloses the device discussed above in claim 1, and further teaches of means for updating said database means with a current billing rate schedule [see pages 10.1-10.9; also see pages 4.102-4.112].

Regarding ***claim 13***, Isoetec discloses the device discussed above in claim 10, and further teaches that said update means includes a modem for receiving signals through said telephone line and downloading the update information [see page 1.24; also see pages 23.1 and 23.19].

Regarding ***claim 14***, Isoetec discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to said first telephone when said first telephone is in use [see section 1.5 on page 1.18; also see sections 10.1 and 10.2 on pages 10.1-10.3; also see section 10.6 on page 10.4], comprising

a housing forming an enclosure [228 Cabinet with the Main Distribution Frame (MDF) on page 2.7 (Figure 2-1) and page 3.2 (Figure 3-1)] and comprising first jack means for connection to said first telephone, and second jack means for connection to said network [see pages 1.2 and 1.5-1.15; also see pages 3.6-3.9; also see sections 3.6-3.9 on pages 3.20-3.23],

means positioned on said housing for visibly displaying the time and date [see Figure 1-4 on page 1.5; also see page 2.18; also see page 3.1, being the station port that provides digital data to digital display phones; also see Fig. 3-10 on page 3.16, whereby the I/O Panel, positioned on the housing of the cabinet 228, includes a connection to the monitor; also see page 4.181],

switch means operatively connected to said first jack means for disconnecting said first telephone from said network [see pages 1.5-1.15; also see sections 3.6-3.9 on pages 3.20-3.23; also see pages 4.131 and 4.146],

means operatively connected to said first jack means for disconnecting said first telephone from said network [see pages 1.5-1.15; also see sections 3.6-3.9 on pages 3.20-3.23; also see pages 4.131 and 4.146],

means operatively connected to said switch means for generating a current through said switch means to said first telephone corresponding to said current provided by said network [see page 1.18; also see page 2.4],

means operatively connected to said time and date display means and said switch means for receiving a predetermined dial sequence from said first telephone corresponding to a predetermined date and time to be displayed and means for changing the displayed time and date based on the received signals [see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone],

database means for storing billing rate parameters for determining a least cost communication path for a call corresponding to said telephone number, based on such factors as the time and date of the call [see page 4.102-4.104; also see pages 10.1-10.6, being the customized LCR Database; also see section 15.2],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone [see pages 4.102-4.104; also see Figure 10-1 and pages 10.1-10.6, wherein "This information includes number and types of facilities and services used, and the customer's area code and exchange"; also see pages 4.103, 4.104 and 4.220],

means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [see pages 10.1-10.9; also see pages 4.102-4.104],

means for comparing the cost rate of each path so as to determine a least cost route [see pages 10.1-10.9; also see pages 4.102-4.104], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone [see pages 10.1-10.9; also see pages 4.102-4.104].

Regarding ***claim 15***, Isoetec discloses the device discussed above in claim 14, and further teaches of means positioned on said housing for manually changing the date and time of the display [see Figure 1-4 on page 1.5; also see page 2.18; also see page 3.1, being the station port that provides digital data to digital display phones; also see page 7.14; also see pages 4.79-4.81, wherein return times and return dates are programmed based on DTMF signals received from the telephone].

Regarding ***claim 16***, Isoetec discloses the device discussed above in claim 14, and further teaches that said means for generating said number sequence comprises a dual tone multifrequency generator [see page 1.8, whereby the 228 system includes a "DTMF tone generator" and a "DTMF tone receiver"; also see pages 4.79-4.81].

Regarding ***claim 18***, Isoetec discloses the device discussed above in claim 14, and further teaches that said detecting means includes a dual tone multifrequency detector [see pages 1.2, 1.8, and 1.15].

Regarding ***claim 19***, Isoetec discloses the device discussed above in claim 14, and further teaches of means for updating said database means with a current billing rate schedule [see pages 10.1-10.9; also see pages 4.102-4.112].

Regarding ***claim 22***, Isoetec discloses the device discussed above in claim 19, and further teaches that said update means includes a modem for receiving signals through said telephone line and downloading the update information [see page 1.24; also see pages 23.1 and 23.19].

Regarding ***claim 23***, Isoetec discloses the device discussed above in claim 14, and further teaches that said cost may be given a bias for preference to a given carrier [see pages 10.1-10.9; also see pages 4.102-4.112].

Regarding ***claim 24***, Isoetec discloses an apparatus for displaying a time quantity which can be initiated from a telephone of the type capable of generating dual tone multifrequency signals [see page 1.8, whereby the 228 system includes a "DTMF tone generator" and a "DTMF tone receiver"; also see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone] comprising

a housing forming an enclosure [228 Cabinet with the Main Distribution Frame (MDF) on page 2.7 (Figure 2-1) and page 3.2 (Figure 3-1)] and comprising first jack means for interconnection to said telephone [page 3.6], and second jack means for connection to a telephone switching network [see page 2.4; also see pages 3.8 and 3.9],

said network normally providing a current to said telephone when said telephone is in use [see page 1.18; also see page 2.4],

means positioned on said housing for visibly displaying a time quantity [see Figure 1-4 on page 1.5; also see page 2.18; also see page 3.1, being the station port that provides digital data

to digital display phones; also see Fig. 3-10 on page 3.16, whereby the I/O Panel, positioned on the housing of the cabinet 228, includes a connection to the monitor; also see page 4.181],

switch means operatively connected to said first jack means for disconnecting said telephone from said network [see page 1.8; also see page 2.4],

means operatively connected to said switch means for generating a current through said switch means to said telephone corresponding to said current provided by said network [see page 1.16; also see page 2.4],

means operatively connected to said means for displaying a time quantity and said first jack means for receiving said dual tone multifrequency signals, from said telephone when said telephone is disconnected from said network [see page 7.14; also see pages 4.79-4.81, wherein return times and return dates are programmed based on DTMF signals received from the telephone],

said signals corresponding to said time quantity and for changing the displayed time quantity based on signals from said telephone [see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone], and

means responsive to a dialing sequence originating on said telephone and operatively connected to said switch means for connecting said telephone to said network [see pages 4.122-4.127].

Regarding ***claim 25***, Isoetec discloses the apparatus discussed above in claim 24, and further teaches that said time quantity is the time of day [see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone].

Regarding ***claim 26***, Isoetec discloses the apparatus discussed above in claim 24, and further teaches that said time quantity is the date [see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone].

Regarding ***claim 27***, Isoetec discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to said first telephone when said first telephone is in use [see section 1.5 on page 1.18; also see sections 10.1 and 10.2 on pages 10.1-10.3; also see section 10.6 on page 10.4], comprising

a housing forming an enclosure [228 Cabinet with the Main Distribution Frame (MDF) on page 2.7 (Figure 2-1) and page 3.2 (Figure 3-1); also see page T.S. 2, wherein the cabinet has dimensions of 16" high by 26" long by 15 ½" deep] and comprising first jack means for connection to said first telephone and second jack means for connection to said network [see pages 1.2 and 1.5-1.15; also see pages 3.6-3.9; also see sections 3.6-3.9 on pages 3.20-3.23],

switch means operatively connected to said first jack means for disconnecting said first telephone from said network **during routing of a telephone call from said first telephone** [see pages 1.5-1.15; also see page 4.102, wherein "...each station can be assigned a class of service for LCR. This class of service determines under what circumstances a more expensive route may be used if all the lines in the least expensive route are busy."; also see pages 4.161, 4.163, and 4.164, wherein "If LCR is used, the outside telephone number will automatically be dialed when the outside line is seized."; also see page 4.220, showing how to place an outside call using LCR,

whereby the system selects an idle line in the least costly trunk group and dials the call; also see page 8.25, wherein "when a station places an outside line call, a running total of the call is kept. When this cost exceeds the amount set for the station in "Cost Limit" a warning tone is given. Thirty seconds after the warning tone, the system will terminate the call.", whereby with this, Isoetec is teaching that system is operable to disconnect the telephone from the network; alternatively, see page 12.3, wherein "If LCR attempts to dial a service and does not receive dial tone from the carrier (e.g. a busy signal is reached) the line is released, and the telephone number is dialed on the next less expensive service.", also wherein "The LCR HOOK FLASH option allows the station user to flash (momentarily disconnect) the outside line when using LCR. Normally, if the LCR key is pressed during a call, the call is disconnected and a new LCR dial tone is connected to the station."; with this, Isoetec is teaching of a means for disconnecting the telephone from the network during routing of a telephone call from the telephone.],

means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network**, when said first telephone is disconnected from said network by said switch means** [see pages 1.5-1.16; also see page 4.102, wherein "...each station can be assigned a class of service for LCR. This class of service determines under what circumstances a more expensive route may be used if all the lines in the least expensive route are busy."; also see page 12.3, wherein "If LCR attempts to dial a service and does not receive dial tone from the carrier (e.g. a busy signal is reached) the line is released, and the telephone number is dialed on the next less expensive service.", also wherein "The LCR HOOK FLASH option allows the station user to flash (momentarily disconnect) the outside line when using LCR. Normally, if the LCR key is pressed

during a call, the call is disconnected and a new LCR dial tone is connected to the station."; with these sections, Isoetec is teaching that corresponding to receiving no dial tone (e.g. a busy signal) from the carrier, thus corresponding to a current provided by the network, a current is generated through the switch means when the telephone is disconnected from the network.],

database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number [see page 4.102-4.104; also see pages 10.1-10.6, being the customized LCR Database; also see section 15.2],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [see pages 4.102-4.104; also see Figure 10-1 and pages 10.1-10.6, wherein "This information includes number and types of facilities and services used, and the customer's area code and exchange"; also see pages 4.103, 4.104 and 4.220],

means for comparing the cost rate of each path so as to determine a least cost route [see page 10.1; also see pages 4.102 and 4.103], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone phone [see pages 10.1-10.9; also see pages 4.102-4.104].

Regarding ***claim 28***, Isoetec discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to said first telephone when said first telephone is in use [see section 1.5 on page 1.18; also see sections 10.1 and 10.2 on pages 10.1-10.3; also see section 10.6 on page 10.4], comprising

a housing forming an enclosure [228 Cabinet with the Main Distribution Frame (MDF) on page 2.7 (Figure 2-1) and page 3.2 (Figure 3-1)] and comprising first jack means for connection to said first telephone, and second jack means for connection to said network [see pages 1.2 and 1.5-1.15; also see pages 3.6-3.9; also see sections 3.6-3.9 on pages 3.20-3.23],

means positioned on said housing for visibly displaying the time and date [see Figure 1-4 on page 1.5; also see page 2.18; also see page 3.1, being the station port that provides digital data to digital display phones; also see Fig. 3-10 on page 3.16, whereby the I/O Panel, positioned on the housing of the cabinet 228, includes a connection to the monitor; also see page 4.181],

switch means operatively connected to said first jack means for disconnecting said first telephone from said network **during routing of a telephone call from said first telephone** [see pages 1.5-1.15; also see page 4.102, wherein "...each station can be assigned a class of service for LCR. This class of service determines under what circumstances a more expensive route may be used if all the lines in the least expensive route are busy."; also see pages 4.161, 4.163, and 4.164, wherein "If LCR is used, the outside telephone number will automatically be dialed when the outside line is seized."; also see page 4.220, showing how to place an outside call using LCR, whereby the system selects an idle line in the least costly trunk group and dials the call; also see

page 8.25, wherein "when a station places an outside line call, a running total of the call is kept. When this cost exceeds the amount set for the station in "Cost Limit" a warning tone is given. Thirty seconds after the warning tone, the system will terminate the call.", whereby with this, Isoetec is teaching that system is operable to disconnect the telephone from the network; alternatively, see page 12.3, wherein "If LCR attempts to dial a service and does not receive dial tone from the carrier (e.g. a busy signal is reached) the line is released, and the telephone number is dialed on the next less expensive service.", also wherein "The LCR HOOK FLASH option allows the station user to flash (momentarily disconnect) the outside line when using LCR. Normally, if the LCR key is pressed during a call, the call is disconnected and a new LCR dial tone is connected to the station."; with this, Isoetec is teaching of a means for disconnecting the telephone from the network during routing of a telephone call from the telephone.],

means operatively connected to said switch means for generating a current through said switch means to said first telephone corresponding to said current provided by said network, **when said first telephone is disconnected from said network by said switch means** [see pages 1.5-1.16; also see page 4.102, wherein "...each station can be assigned a class of service for LCR. This class of service determines under what circumstances a more expensive route may be used if all the lines in the least expensive route are busy."; also see page 12.3, wherein "If LCR attempts to dial a service and does not receive dial tone from the carrier (e.g. a busy signal is reached) the line is released, and the telephone number is dialed on the next less expensive service.", also wherein "The LCR HOOK FLASH option allows the station user to flash (momentarily disconnect) the outside line when using LCR. Normally, if the LCR key is pressed during a call, the call is disconnected and a new LCR dial tone is connected to the station."; with

these sections, Isoetec is teaching that corresponding to receiving no dial tone (e.g. a busy signal) from the carrier, thus corresponding to a current provided by the network, a current is generated through the switch means when the telephone is disconnected from the network.],

means operatively connected to said time and date display means and said switch means for receiving a predetermined dial sequence from said first telephone corresponding to a predetermined date and time to be displayed and means for changing the displayed time and date based on the received signals [see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone],

database means for storing billing rate parameters for determining a least cost communication path for a call corresponding to said telephone number, based on such factors as the time and date of the call [see page 4.102-4.104; also see pages 10.1-10.6, being the customized LCR Database; also see section 15.2],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone [see pages 4.102-4.104; also see Figure 10-1 and pages 10.1-10.6, wherein "This information includes number and types of facilities and services used, and the customer's area code and exchange"; also see pages 4.103, 4.104 and 4.220],

means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [see pages 10.1-10.9; also see pages 4.102-4.104],

means for comparing the cost rate of each path so as to determine a least cost route [see pages 10.1-10.9; also see pages 4.102-4.104], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone [see pages 10.1-10.9; also see pages 4.102-4.104].

Regarding ***claim 29***, Isoetec discloses an apparatus for displaying a time quantity which can be initiated from a telephone of the type capable of generating dual tone multifrequency signals [see page 1.8, whereby the 228 system includes a "DTMF tone generator" and a "DTMF tone receiver"; also see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone] comprising

a housing forming an enclosure [228 Cabinet with the Main Distribution Frame (MDF) on page 2.7 (Figure 2-1) and page 3.2 (Figure 3-1)] and comprising first jack means for interconnection to said telephone [page 3.6], and second jack means for connection to a telephone switching network [see page 2.4; also see pages 3.8 and 3.9],

said network normally providing a current to said telephone when said telephone is in use [see page 1.18; also see page 2.4],

means positioned on said housing for visibly displaying a time quantity [see Figure 1-4 on page 1.5; also see page 2.18; also see page 3.1, being the station port that provides digital data to digital display phones; also see Fig. 3-10 on page 3.16, whereby the I/O Panel, positioned on the housing of the cabinet 228, includes a connection to the monitor; also see page 4.181],

switch means operatively connected to said first jack means for disconnecting said telephone from said network [see page 1.8; also see page 2.4],

means operatively connected to said switch means for generating a current through said switch means to said telephone corresponding to said current provided by said network**, when said telephone is disconnected from said network by said switch means** [see pages 1.5-1.16; also see page 4.102, wherein "...each station can be assigned a class of service for LCR. This class of service determines under what circumstances a more expensive route may be used if all the lines in the least expensive route are busy."; also see page 12.3, wherein "If LCR attempts to dial a service and does not receive dial tone from the carrier (e.g. a busy signal is reached) the line is released, and the telephone number is dialed on the next less expensive service.", also wherein "The LCR HOOK FLASH option allows the station user to flash (momentarily disconnect) the outside line when using LCR. Normally, if the LCR key is pressed during a call, the call is disconnected and a new LCR dial tone is connected to the station."; with these sections, Isoetec is teaching that corresponding to receiving no dial tone (e.g. a busy signal) from the carrier, thus corresponding to a current provided by the network, a current is generated through the switch means when the telephone is disconnected from the network.],

means operatively connected to said means for displaying a time quantity and said first jack means for receiving said dual tone multifrequency signals, from said telephone when said telephone is disconnected from said network [see page 7.14; also see pages 4.79-4.81, wherein return times and return dates are programmed based on DTMF signals received from the telephone],

said signals corresponding to said time quantity and for changing the displayed time quantity based on signals from said telephone [see pages 4.79-4.81, whereby return times and return dates are programmed based on DTMF signals from the telephone], and

means responsive to a dialing sequence originating on said telephone and operatively connected to said switch means for connecting said telephone to said network [see pages 4.122-4.127].

28. **Claims 1-5, 7-11, and 27** are rejected under 35 U.S.C. 102(b) as being anticipated by Jabs *et al.* (U.S. Patent Number 5,173,933), issued on Dec. 22, 1992 (hereafter "Jabs").

Regarding ***claim 1***, Jabs discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to said first telephone when said first telephone is in use [see col. 4, lines 24-55; also see col. 8, lines 17-19], comprising

a housing forming an enclosure and comprising first jack means for connection to said first telephone and second jack means for connection to said network [see col. 6, lines 34-39;

also see col. 8, lines 12-17, whereby the interfaces 108 and 112 are the first jack means and interfaces 100 and 104 are the second jack means]

switch means operatively connected to said first jack means for disconnecting said first telephone from said network [col. 8, lines 24-25],

means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network [see col. 8, lines 24 and 25; also see col. 9, line 64-col. 10, line 3],

database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number [col. 6, line 26 and col. 22, lines 49-52; also see col. 12, lines 42 and 43],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [col. 10, lines 7-10; also see col. 2, lines 8-15; also see col. 20, lines 53-55; also see col. 11; also see col. 6, lines 25-30],

means for comparing the cost rate of each path so as to determine a least cost route [see col. 11-col. 12, line 10; also see col. 4, lines 24-28], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone phone [col. 4, lines 49-59; also see col. 20, lines 53-55].

Regarding ***claim 2***, Jabs discloses the device discussed above in claim 1, and further teaches that said least cost communication path parameters include the time and date of the call [col. 12, lines 4-6; also see col. 6, lines 53 and 54].

Regarding ***claim 3***, Jabs discloses the device discussed above in claim 1, and further teaches that said switch means connects said first telephone to said network during an incoming call [col. 15, lines 19-32].

Regarding ***claim 4***, Jabs discloses the device discussed above in claim 1, and further teaches that an internal power supply connected to said means for generating a current [col. 6, lines 44-47].

Regarding ***claim 5***, Jabs discloses the device discussed above in claim 1, and further teaches that said means for generating said number sequence comprises a dual tone multifrequency generator [col. 10, lines 7-10; also see cols. 19 and 20].

Regarding ***claim 7***, Jabs discloses the device discussed above in claim 1, and further teaches that said detecting means includes a dual tone multifrequency detector [col. 10, lines 7-10; also see col. 20, lines 20-23].

Regarding ***claim 8***, Jabs discloses the device discussed above in claim 1, and further teaches of means for maintaining the time and date so as to determine the least cost route based on the time and date of the call [col. 6, lines 53-57; also see col. 12, lines 4-6].

Regarding ***claim 9***, Jabs discloses the device discussed above in claim 1, and further teaches that said cost may be given a bias for preference to a given carrier [col. 12, lines 12-15].

Regarding ***claim 10***, Jabs discloses the device discussed above in claim 1, and further teaches of means for updating said database means with a current billing rate schedule [col. 6, lines 25-39].

Regarding ***claim 11***, Jabs discloses the device discussed above in claim 10, and further teaches that said update means includes a circuit board mounted inside said enclosure, and said database means comprises a removable chip on said circuit board, and means for accessing said removable chip from outside said housing [col. 6, lines 26-40].

Regarding ***claim 27***, Jabs discloses a device for routing telephone calls along a least cost route originating from a first telephone to a second telephone having an associated telephone number via a network having a plurality of alternate communication switch paths corresponding to different carriers which can be chosen to route the call and normally providing a current to said first telephone when said first telephone is in use [see col. 4, lines 24-55; also see col. 8, lines 17-19], comprising

a housing forming an enclosure and comprising first jack means for connection to said first telephone and second jack means for connection to said network [see col. 6, lines 34-39; also see col. 8, lines 12-17, whereby the interfaces 108 and 112 are the first jack means and interfaces 100 and 104 are the second jack means]

switch means [interpreted as the "multitasking dispatcher", as read in col. 9, lines 24-61, which includes the function of "setting to allow outgoing calls through the trunks"] operatively connected to said first jack means for disconnecting said first telephone from said network, during routing of a telephone call from said first telephone [col. 4, lines 60-66, wherein "Call progress through the interface is supervised to insure the presence of voice or data activity such that call "tear down" (that is call termination) occurs after a period of ring no answer, busy, dead air, etc."; also see col. 11, lines 48-62, wherein "The interface, upon placement of a call, selects the channel of least cost (first choice) off hook, and look for loop current and/or dial tone. If loop current is not detected, the interface on hooks this channel and try either another channel of the same media (as there could be two or more cellular or land lines) if available, or bring the channel off hook for the second choice. The interface continues this process until the channels that are of less cost than satellite are exhausted. If the interface then selects satellite, the interface selects the least expensive coast earth station.", whereby the interface disconnects a first network, being a cellular or land line, and then connects to a satellite network, after placement of a call, thus being "during routing of a telephone call"; also see col. 13, line 46-col. 14, line 3, wherein "If a preselected period of time of busy signal or dead air is detected at 675, the telephone system goes on hook at 676 and the call is terminated."],

means operatively connected to said switch means for generating a current through said switch means to the first telephone, corresponding to a current provided by said network, when said first telephone is disconnected from said network by said switch means [see col. 9, line 64-col. 10, line 3; also see col. 11, lines 31-62, "The interface, upon placement of a call, selects the channel of least cost (First choice) off hook, and look for loop current and/or dial tone. If loop current is not detected, the interface on hooks this channel and try either another channel of the same media (as there could be two or more cellular or land lines) if available, or bring the channel off hook for the second choice. The interface continues this process until the channels that are of less cost than satellite are exhausted. If the interface then selects satellite, the interface selects the least expensive coast earth station.", whereby a current is generated through the multitasking dispatcher to the telephone so as to connect the telephone to a different network],

database means for storing billing rate parameters for determining a least cost communication path for call corresponding to said telephone number [col. 6, line 26 and col. 11, lines 49-52; also see col. 12, lines 42 and 43],

means operatively connected to said switch means for detecting and storing said telephone number originating from the first telephone means for addressing said database means for identifying a plurality of communication switch paths to said second telephone and the cost rate of each path [col. 10, lines 7-10; also see col. 2, lines 8-15; also see col. 20, lines 53-55; also see col. 11; also see col. 6, lines 25-30],

means for comparing the cost rate of each path so as to determine a least cost route [see col. 11-col. 12, line 10; also see col. 4, lines 24-28], and

means operatively connected to said switch means and said second jack means for generating a number sequence corresponding to a desired carrier so that said call is routed through said second jack means to the selected communication path and carrier to establish a switched connection between said first telephone and said second telephone phone [col. 4, lines 49-59; also see col. 20, lines 53-55].

Claim Rejections - 35 USC § 103

29. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

30. **Claim 12** is rejected under 35 U.S.C. 103(a) as being unpatentable over Jabs *et al.* (U.S. Patent Number 5,425,085 (hereafter "Jabs").

Regarding ***claim 12***, Jabs discloses the device discussed above in claim 11, and further teaches that said means for accessing said removable chip includes a removable cover on said housing for accessing said chip [see col. 6, lines 34-40]. Particularly, Jabs teaches in column 6, lines 34-40, that "Where the interface of the present invention is within a housing, the ability to plug or unplug the external memory cartridge 52 allows for easy upgrading of both tariff information and system code without requiring the opening of such housing or any special

programming or erasing equipment." With this, Jabs discloses that accessing of the memory cartridge can be performed by opening the housing. While Jabs prefers the design choice of plugging and unplugging the memory cartridge to the housing, one of ordinary skill in the art would have expected that the alternate design of the device having a removable cover on the housing for accessing the chip, would have performed the same purpose, as even recognized by Jabs. Therefore, it would have been obvious to one of ordinary skill in this art to have the device of Jabs include a removable cover on the housing to access a memory cartridge to obtain the invention as specified in claim 12.

31. **Claims 20 and 21** are rejected under 35 U.S.C. 103(a) as being unpatentable over the publication "ISOETEC System/228: Technical Manual", published by ISOETEC Communications, Inc. and dated July 1998 (hereafter "Isoetec") in view of Jabs *et al.* (U.S. Patent Number 5,425,085 (hereafter "Jabs").

Regarding ***claim 20***, Isoetec discloses the device discussed above in claim 19, and further teaches that said update means includes a circuit board mounted inside said enclosure [see pages 1.5-1.15].

However Isoetec fails to expressly disclose that said database means comprises a removable chip on said circuit board, and means for accessing said removable chip from outside said housing.

Jabs discloses a device that includes an update means having a circuit board mounted inside an enclosure, and a database means that comprises a removable chip on said circuit board, and means for accessing said removable chip from outside said housing [see col. 6, lines 22-40].

Isoetec & Jabs are combinable because they are from the same field of endeavor, being telephone systems having a least cost routing function. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have a removable chip on the circuit board, as taught by Jabs, in the device of Isoetec. The suggestion/motivation for doing so would have been that a removable chip would allow for easy upgrading of least cost routing data, as recognized by Jabs in column 6, lines 2-40. Therefore, it would have been obvious to combine the teachings of Jabs with the system of Isoetec to obtain the invention as specified in claim 20.

Regarding ***claim 21***, Isoetec and Jabs disclose the device discussed above in claim 20, and Jabs further teaches that said means for accessing said removable chip includes a removable cover on said housing for accessing said chip [see col. 6, lines 34-40]. Particularly, Jabs states in column 6, lines 34-40, that "Where the interface of the present invention is within a housing, the ability to plug or unplug the external memory cartridge 52 allows for easy upgrading of both tariff information and system code without requiring the opening of such housing or any special programming or erasing equipment." With this, Jabs discloses that accessing of the memory cartridge can be performed by opening the housing. While Jabs prefers the design choice of

plugging and unplugging the memory cartridge to the housing, one of ordinary skill in the art would have expected that the alternate design of the device having a removable cover on the housing for accessing the chip, would have performed the same purpose, as even recognized by Jabs. As discussed above, it would have been obvious to a person of ordinary skill in the art to have a removable chip on the circuit board, as taught by Jabs, in the device of Isoetec. The suggestion/motivation for doing so would have been that a removable chip would allow for easy upgrading of least cost routing data, as recognized by Jabs in column 6, lines 2-40. Thus, it would have been obvious to one of ordinary skill in this art to have the device of Isoetec and Jabs include a removable cover on the housing to access a memory cartridge to obtain the invention as specified in claim 21.

STATEMENT OF REASONS FOR PATENTABILITY AND/OR CONFIRMATION

32. The following is an examiner's statement of reasons for patentability and/or confirmation of the claims found patentable in this reexamination proceeding:

Claims 6 and 17 are deemed as patentable.

Specifically, regarding ***claims 6 and 17***, in the examiner's opinion, it would not have been obvious to one of ordinary skill in the art, at the time the invention was made, to have the device, as claimed in claims 1 or 14, respectively, further have the housing substantially cylindrical with opposing ends, and with the first jack means positioned on one end and the second jack means positioned on the opposite end. None of the prior art of record teaches of a least cost device with this structure. Further, the examiner can find no motivation based on the prior art of record that would lead one to construct the claimed devices with this shape for the housing. Particularly, the references of Vodavi and Isoetec teach of telephone systems having least cost routing functions, whereby both references disclose cabinets that contain a plurality of boards. A cylindrical structure would not be desirable in a cabinet such as these, and no motivation is known that would lead one to alter the described devices to have a cylindrical structure with the first jack means positioned on one end and the second jack means positioned on the opposite end. Further, the STC'595 reference states on page 4, lines 4-6, that "It is housed in a standard box, which is double the size of an ordinary dual BT telephone socket." There is no motivation to alter a double-sized ordinary dual British Telecom telephone socket into cylindrical structure. Continuing, the Jabs reference discloses an interface between a plurality of

telecommunication stations and a plurality of trunks that link to communication carriers of various media, whereby the interface is adapted for use in an oceangoing vessel. However, there is no indication that one would desire to have this interface in a substantially cylindrical shape, with a jack means on each of the sides. Thus, the limitations found in claims 6 and 17 are patentable over the prior art of record.

Any comments considered necessary by PATENT OWNER regarding the above statement must be submitted promptly to avoid processing delays. Such submission by the patent owner should be labeled: "Comments on Statement of Reasons for Patentability and/or Confirmation" and will be placed in the reexamination file.

Conclusion

33. Extensions of time under 37 CFR 1.136(a) will not be permitted in these proceedings because the provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Additionally, 35 U.S.C. 305 requires that *ex parte* reexamination proceedings "will be conducted with special dispatch" (37 CFR 1.550(a)). Extensions of time in *ex parte* reexamination proceedings are provided for in 37 CFR 1.550(c).

34. The patent owner is reminded of the continuing responsibility under 37 CFR 1.565(a) to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving Patent No. 5,425,085 throughout the course of this reexamination proceeding.

NOTICE RE PATENT OWNER'S CORRESPONDENCE ADDRESS

Effective May 16, 2007, 37 CFR 1.33(c) has been revised to provide that:

The patent owner's correspondence address for all communications in an *ex parte* reexamination or an *inter partes* reexamination is designated as the correspondence address of the patent.

> *Revisions and Technical Corrections Affecting Requirements for Ex Parte and Inter Partes Reexamination*, 72 FR 18892 (April 16, 2007)(Final Rule)

The correspondence address for any pending reexamination proceeding not having the same correspondence address as that of the patent is, by way of this revision to 37 CFR 1.33(c), automatically changed to that of the patent file as of the effective date.

This change is effective for any reexamination proceeding which is pending before the Office as of May 16, 2007, including the present reexamination proceeding, and to any reexamination proceeding which is filed after that date.

Parties are to take this change into account when filing papers, and direct communications accordingly.

In the event the patent owner's correspondence address listed in the papers (record) for the present proceeding is different from the correspondence address of the patent, it is strongly encouraged that the patent owner affirmatively file a Notification of Change of Correspondence Address in the reexamination proceeding and/or the patent (depending on which address patent owner desires), to conform the address of the proceeding with that of the patent and to clarify the record as to which address should be used for correspondence.

Telephone Numbers for reexamination inquiries:

Reexamination and Amendment Practice	(571) 272-7703
Central Reexam Unit (CRU)	(571) 272-7705
Reexamination Facsimile Transmission No.	(571) 273-9900

35. **THIS ACTION IS MADE FINAL.**

A shortened statutory period for response to this action is set to expire TWO MONTHS from the mailing date of this action.

Extensions of time under 37 CFR 1.136(a) do not apply in reexamination proceedings. The provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Further, in 35 U.S.C. 305 and in 37 CFR 1.550(a), it is required that reexamination proceedings "will be conducted with special dispatch within the Office."

Extensions of time in reexamination proceedings are provided for in 37 CFR 1.550(c). A request for extension of time must be filed on or before the day on which a response to this action is due, and it must be accompanied by the petition fee set forth in 37 CFR 1.17(g). The mere filing of a request will not effect any extension of time. An extension of time will be granted only for sufficient cause, and for a reasonable time specified.

The filing of a timely first response to this final rejection will be construed as including a request to extend the shortened statutory period for an additional month, which will be granted even if previous extensions have been granted. In no event however, will the statutory period for response expire later than SIX MONTHS from the mailing date of the final action. See MPEP § 2265.

36. ALL correspondence relating to this ex parte reexamination proceeding should be directed as follows:

Please mail any communications to:

Attn: Mail Stop "Ex Parte Reexam"
Central Reexamination Unit
Commissioner for Patents
P. O. Box 1450
Alexandria VA 22313-1450

Please FAX any communications to:

(571) 273-9900
Central Reexamination Unit

Please hand-deliver any communications to:

Customer Service Window
Attn: Central Reexamination Unit
Randolph Building, Lobby Level
401 Dulany Street
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Reexamination Legal Advisor or Examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Signed:

Joseph R. Pokrzywa
Primary Examiner
Central Reexamination Unit 3992
(571) 272-7410

Conferees :

MARK J. REINHART
CRU SPE-AU 3992

ERIK KIELIN