(57) Abstract: According to one embodiment of the present invention, a first automated system monitors at least one call characteristic (e.g., frequency of abnormally short calls) to determine whether quality of service standards are being met by the various carriers being utilized by the system. Such an at least one call characteristic can be stored in a database for later retrieval by an automated link diagnosis system. If appropriate, a link re-routing system can respond to an analysis of the link diagnosis system in order to re-route calls - by either taking at least one link out of service or by placing at least one link back into service.
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC:  H04J 1/16(2006.01)

   USPC:  370/225,241,248;379/265.06
   According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

   Minimum documentation searched (classification system followed by classification symbols)
   U.S.: 370/225, 241, 248; 379/265.06

   Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

   Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
   Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5,467,391 A (DONAGHUE et al) 14 November 1995 (14.11.1995), column 6, lines 46-55 also see figures 1-3, Analyzer 42</td>
<td>1-22</td>
</tr>
</tbody>
</table>

* Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search

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Date of mailing of the international search report
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Continuation of B. FIELDS SEARCHED Item 3:
EAST
search terms: monitoring, testing, link, channel, average, completion, failure, load, capacity, threshold