

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
12 September 2002 (12.09.2002)

PCT

(10) International Publication Number  
**WO 02/071790 A3**

(51) International Patent Classification<sup>7</sup>: **H04Q 11/00**,  
H04L 12/56

(21) International Application Number: PCT/CA02/00286

(22) International Filing Date: 5 March 2002 (05.03.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/273,641 7 March 2001 (07.03.2001) US

(71) Applicant: **MERITON NETWORKS INC.** [CA/CA];  
3026 Solandt Road, Ottawa, Ontario K2K 2A5 (CA).

(72) Inventors: **WU, Quansheng**; 25 Woodridge Cr., Apt.  
1112, Nepean, ontario K2B 7T4 (CA). **LIU, Ling-Zhong**;  
1053 Alenmede Cres., Ottawa, Ontario K2B 8H2 (CA).

(74) Agent: **MACGREGOR, George**; c/o Marks & Clerk, P.O.  
Box 957, Station B, Ottawa, Ontario K1P 5S7 (CA).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

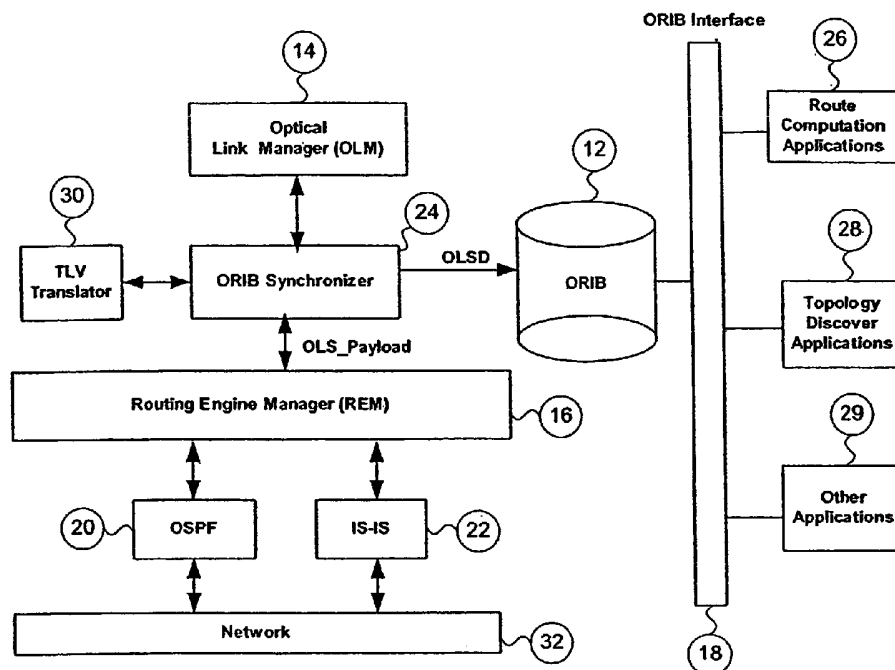
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: GENERIC OPTICAL ROUTING INFORMATION BASE SUPPORT



Generic ORIB Management Software Architecture

(57) Abstract: This application proposes a solution that makes access to the Optical Link State (OLS) information more efficient for use by upper level applications. Applications are independent of underlying routing protocols. This solution applies to all Link State based IGP protocols with the extension to optical networks, including OSPF and IS-IS.



(88) Date of publication of the international search report:  
15 May 2003

*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

Interns: Application No

PCT/CA 02/00286

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04Q11/00 H04L12/56

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)

IPC 7 H04L H04Q

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 practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5 430 727 A (CALLON ROSS W ET AL) 4 July 1995 (1995-07-04) column 13, line 20 - line 31  column 32, line 1 - line 4 column 39, line 56 -column 40, line 33 ---	1,11  2-10,12, 13
A	US 5 995 503 A (SALKEWICZ WILLIAM M ET AL) 30 November 1999 (1999-11-30) column 1, line 40 - line 59 column 6, line 15 -column 7, line 26; figures 5-7 column 10, line 20 - line 28 ---	1-13
A	US 5 917 820 A (REKHTER YAKOV) 29 June 1999 (1999-06-29) column 5, line 16 -column 6, line 40 --- -/--	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

6 March 2003

Date of mailing of the international search report

17/03/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Meurisse, W

# INTERNATIONAL SEARCH REPORT

Interna	Application No
PCT/CA 02/00286	

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 687 168 A (IWATA ATSUSHI)  11 November 1997 (1997-11-11)  column 5, line 37 -column 7, line 59;  figure 5</p> <p style="text-align: center;">-----</p>	1-13

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 02/00286

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5430727	A	04-07-1995	US 5251205 A 05-10-1993 US 5557745 A 17-09-1996
US 5995503	A	30-11-1999	NONE
US 5917820	A	29-06-1999	NONE
US 5687168	A	11-11-1997	JP 2723084 B2 09-03-1998 JP 9036873 A 07-02-1997 CA 2181425 A1 20-01-1997