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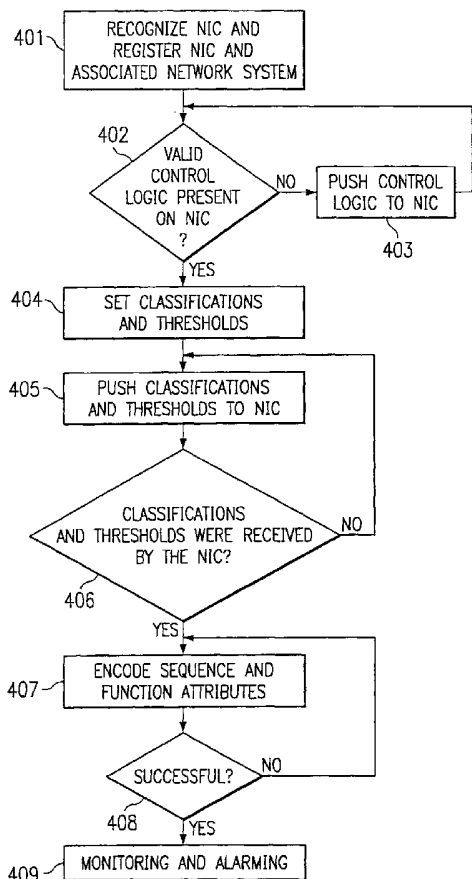
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[Continued on next page]

(54) Title: DATA TRAFFIC CONTROL IN AN INTERNAL NETWORK



(57) Abstract: Disclosed are systems and methods which implement network data traffic identification and analysis at a low level in the network to thereby filter and/or prevent undesired data communication sourced therein. Preferred embodiments utilize a network interface of the present invention, having intelligent control logic thereon, to provide tagging of data packets for identification and/or analysis, such as to provide filtering of further transmission of appropriate data packets by a server deployed at the edge of an external network. Additionally or alternatively, a network interface of the present invention may be utilized to prevent communication of data packets, such as by recognizing that a transmission bandwidth threshold is being exceeded and, therefore, disabling transmission of data packets.

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/001709

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H04L12/56 H04L12/26 H04L29/06

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)  
 IPC 7 H04L

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, WPI Data, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X  Y	US 2002/141341 A1 (ISREL MAURICE ET AL) 3 October 2002 (2002-10-03) abstract  paragraph [0009] paragraph [0019] - paragraph [0021] paragraph [0026] - paragraph [0028] paragraph [0032] - paragraph [0039] claims 1-3 figures 1-5  ----- -/--	1,46  2-25, 47-55

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  
  
10 August 2004

Date of mailing of the international search report  
  
03.11.04

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/001709

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X  Y	WO 00/11841 A (COLEMAN TREVOR JOHN ; KNIGHT RICHARD JOHN (GB); MADGE NETWORKS LTD (GB) 2 March 2000 (2000-03-02) abstract  page 2, line 20 - page 3, line 21 page 5, line 20 - line 34 page 7, line 16 - page 13, line 15 claims 1,10 figures 1,2  -----	1,46  2-25, 47-55
X  A	WO 02/100039 A (DEEP NINES INC) 12 December 2002 (2002-12-12) abstract  page 8, line 10 - line 25 page 9, line 13 - page 10, line 28 figures 2,3  -----	1,46  2-25, 47-55

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2004/001709

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-25, 46-55

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25,46-55

A system and a method for controlling data traffic on a network comprising a network interface for monitoring the bandwidth utilisation and decreasing the data traffic as a function of said bandwidth utilisation, the problem to be solved being to avoid network congestion.

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2. claims: 26-45,56-61

A system and a method for controlling data traffic on a network comprising a network interface for tagging incoming data with a preselected classification and for allowing or preventing further transmission of said data according to said classification, the problem to be solved being to avoid undesired traffic to propagate into the network.

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# INTERNATIONAL SEARCH REPORT

International Application No  
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Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 2002141341	A1	03-10-2002	NONE	
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			WO 0011848 A1	02-03-2000
			WO 0011842 A1	02-03-2000
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WO 02100039	A	12-12-2002	US 2002131366 A1	19-09-2002
			EP 1396122 A2	10-03-2004
			WO 02100039 A2	12-12-2002
			US 2003110394 A1	12-06-2003
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