Title: PROCESS FOR MONITORING, FILTERING AND CACHING INTERNET CONNECTIONS

Abstract: A box system and process for controlling Internet usage by users on a network (100). The system controls usage by combining two or more of the following functions into a single operating unit: 1) monitoring and logging Internet access on a user and/or work station basis (104, 109-110); 2) preventing or authorizing access on a user and/or work station basis to URLs’ s (or groups of URL’s) that have been previously designated an inappropriate or appropriate, respectively, for that user or work station (110, 114); 3) preventing or authorizing the downloading of files with any pre-designated file extension of any user or workstation (108, 116, 120); 4) blocking of peer-to-peer access of any pre-designated Internet file-sharing or other service (such as Kazaa, RealPlayer, AOL Instant Messaging etc.) (114, 116, 120); 5) periodically or immediately alerting a designated representative of the attempt by any user or work station to access of pre-determined inappropriate site or file; 6) allowing remote review of the Internet activity log for any user by anyone (such as a student’s parents) with knowledge of that user’s log-in information (i.e., name and password); and 7) caching downloaded Internet objects for subsequent in-network retrieval. The system and process of this invention can also be configured to preform the traditional firewall function as well.
Published:  with international search report

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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(7) : G06F 15/16
   US CL. : 709/224; 711/201
   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. : 709/223, 213, 227, 229; 713/200, 201; G06F 15/173

   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)

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 5,987,611 A (FREUND) 16 November 1999 (16.11.1999), Abstract, Column 3, line 50-Column 6, line 28; Column 1, line 11-Column 15, line 10; Column 8, line 40-Column 9, line 36; Column 10, line 44-Column 11, line 20; Column 12, line 44-Column 16, line 29; Column 21, line 48-Column 27, line 50; Column 30, line 51-Column 31, line 31.</td>
<td>1-9</td>
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☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
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Date of the actual completion of the international search: 30 September 2003 (30.09.2003)

Date of mailing of the international search report: 23 OCT 2003

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