Title: ENHANCED VIDEO PROGRAMMING SYSTEM AND METHOD USING A LOCAL HOST FOR NETWORK COMMUNICATION

Abstract: A local host for network communication (214). The local host acts as a dummy port in order to avoid certain security restrictions involving use of applets in the JAVA programming language (208). The local host opens a socket with the Internet or other network connection and functions as a local web server for purposes of the network communication (220). Also disclosed is a playlist for distributing network addresses to user machines. Based upon time values, the network addresses along with the associated descriptions (218) are transmitted to the user machines (202). The network addresses may be dynamic by including a variable to be resolved based upon an intended recipient. The information obtained by resolving the variable is used to assemble a completed address, which is then transmitted to the user machines.
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

**Classification of Subject Matter**
- IPC(7): G06F 15/16
- US CL: 709/219, 245; 725/82, 110, 112

**Fields Search**
Minimum documentation searched (classification system followed by classification symbols)
- U.S.: 709/219, 245; 725/82, 110, 112

**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 5,774,664 A (HIDARY et al.) 30 June 1998 (30.06.1998), whole document.</td>
<td>1</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,954,798 A (SHELFON et al.) 21 September 1999 (21.09.1999), whole document.</td>
<td>23-63</td>
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<tr>
<td>Y</td>
<td>US 5,918,014 A (ROBINSON) 29 June 1999 (29.06.1999), col. 4, lines 8-67.</td>
<td>2-22, 69-71</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,907,680 A (NIELSEN) 25 March 1999 (25.03.1999), col. 7-8.</td>
<td>64-68, 85</td>
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<tr>
<td>Y</td>
<td>US 5,961,603 A (KUNKEL) 05 October 1999 (05.10.1999), whole document.</td>
<td>72</td>
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<tr>
<td>Y</td>
<td>US 5,889,950 A (KUZMA) 30 March 1999, whole document.</td>
<td>73-84</td>
</tr>
</tbody>
</table>

**Date of the actual completion of the international search**
24 October 2001 (24.10.2001)

**Name and mailing address of the ISA/US**
- Commissioner of Patents and Trademarks
- Box PCT
- Washington, D.C. 20231
- Facsimile No. (703)305-3230

**Authorized officer**
- Bunjob Jaruenchawna
- Telephone No. (703)305-9673

**Date of mailing of the international search report**
20 DEC 2001

Form PCT/ISA/210 (second sheet) (July 1998)
INTERNATIONAL SEARCH REPORT

Box I  Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

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

1. ☐ Claim Nos.:
   because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claim 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. ☐ Claim Nos.:
   because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II  Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation 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.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant’s protest.
☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-22 and 87-160, drawn to establishing connection client/server device.
Group II, claim(s) 23-50 and 51-86, drawn to resolving network variable bases on user profile, demographic information, etc.

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1., 13.2 and 13.3) for the reasons indicated below:

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:
- the special technical feature of the Group I invention is the specific applying applet to create plug-in gateway, server and browser for reading/writing a program from a grope of data storage such as tape, TV program, DVD, over internet, claimed therein;
- the special technical feature of the Group II invention is the specific resolving a network variable from statistic or preference information, such as user profile, demographic, geographic, claimed therein.