Title: SYSTEMS AND METHODS FOR DELIVERING AND MANAGING MEDIA CONTENT DOWNLOADED TO A NETWORK CONNECTED DEVICE

Abstract: The present invention provides a comprehensive development platform and client-side technology for intelligent and cost-effective delivery of video, audio and broadband content over a network, such as the Internet, to desktop, mobile computing, and network connected devices. In one embodiment, an intelligent delivery system (IDS) uses delivery behavior techniques for controlling delivery of content downloaded to a network connected device. In another embodiment, the IDS provides a system and method to download content, such any type of video and/or audio media, via an application, Internet or web-based protocol, such as any type and form of the Hypertext Transfer Protocol (HTTP) from a content source providing the media via multiple servers. In some embodiments, the IDS uses a storage shuffling technique to efficiently store to a target file segments of downloaded content received in a random order from a content source. In other embodiments, the IDS automatically provides a user with offline access to video content from a web-site. In another embodiments, the IDS delivers offline content on a client that provides a user experience similar to corresponding content accessed via a network, such as content experienced by a user visiting a web-site on the Internet. In yet another embodiment, the IDS provides a system and method for personalizing downloaded video content for multiple users of a client. In one embodiment, the IDS provides a system and method for synchronizing playing of streamed or downloaded content for a user between multiples devices. In still other embodiments, the IDS provides a system and method for users to download media to one or more computing devices associated with the user from any Internet or network connected device, including mobile computing and telecommunications devices.
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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.
### A. CLASSIFICATION OF SUBJECT MATTER

**INV.** H04L29/08

According to International Patent Classification (IPC) or both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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, COMPENDEX, INSPEC

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<th>Category</th>
<th>Citation of document with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
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* Further documents are listed in the continuation of Box C

* See patent family annex

* "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

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Date of the actual completion of the international search: 13 July 2007

Date of mailing of the international search report: 21/09/2007

Name and mailing address of the ISA:

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Authorized officer:

LOPEZ MONCLUS, I
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<td>Y</td>
<td>US 6 460 087 B1 (SAITO MASAHIRO [JP] ET AL) 1 October 2002 (2002-10-01) column 1, lines 1-10,53-65 column 2, lines 10-24 column 4, line 45 - column 5, line 32 figures 1-6</td>
<td>11-16, 34-39</td>
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INTERNATIONAL SEARCH REPORT

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: 1-47

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: 1-47
   Controlling the way (sequence, schedule, and source) in which content is delivered to a client.

2. claims: 48-67
   Downloading media content via HTTP from multiple content sources.

3. claims: 68-89
   Storage shuffling technique for storing file segments of downloaded content received in a random order from a content source.

4. claims: 90-116
   Providing to a client offline access to video content obtained from a web-site.

5. claims: 117-164
   Maintaining the same user interface used when accessing network content for content accessed offline.

6. claims: 165-194
   Personalizing and controlling the access to downloaded video content for multiple users of a client.

7. claims: 195-252
   Synchronizing playing of streamed or downloaded content for a user between multiple devices.

8. claims: 253-294
   Initiating the download of media to one or more computing devices from any Internet or network connected device.
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