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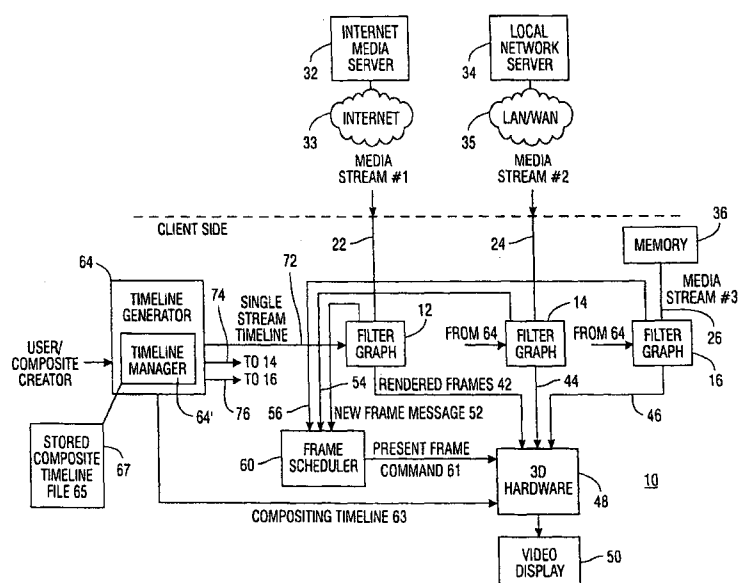
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Published:

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[Continued on next page]

(54) Title: **HARDWARE-BASED, CLIENT-SIDE, VIDEO COMPOSITING SYSTEM**



(57) Abstract: A system for video compositing is comprised of a storage device for storing a composite timeline file. A timeline manager reads rendering instructions and compositing instructions from the stored file. A plurality of filter graphs, each receiving one of a plurality of video streams, renders frames therefrom in response to the rendering instructions. 3D hardware is responsive to the rendered frames and the compositing instructions for creating a composite image. A frame scheduler is responsive to the plurality of filter graphs for controlling the frequency at which the 3D hardware creates a new composite image. An output is provided for displaying the composite image. Methods of generating a composite work and methods of generating the timeline file are also disclosed.

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## A. CLASSIFICATION OF SUBJECT MATTER

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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)

G11B G06F

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| E         | US 2008/037959 A1 (HATANO RYO [JP])<br>14 February 2008 (2008-02-14)<br>the whole document   | 1-16                  |
| X         | RUTLEDGE L: "SMIL 2.0: XML for Web<br>multimedia"<br>IEEE INTERNET COMPUTING, IEEE SERVICE<br>CENTER, NEW YORK, NY, US,<br>vol. 5, no. 5, September 2001 (2001-09),<br>pages 78-84, XP002214117<br>ISSN: 1089-7801<br>the whole document | 1-16                  |
| A         | US 2002/097257 A1 (MILLER DANIEL J [US] ET<br>AL) 25 July 2002 (2002-07-25)<br>paragraphs [0002] - [0009], [0091] -<br>[0101]  | 1-4                   |



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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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|---|---------------------|----------------------------|---------------------|
| US 2008037959 A1                          | 14-02-2008          | NONE                       |                     |
| US 2002097257 A1                          | 25-07-2002          | US 2004135803 A1           | 15-07-2004          |