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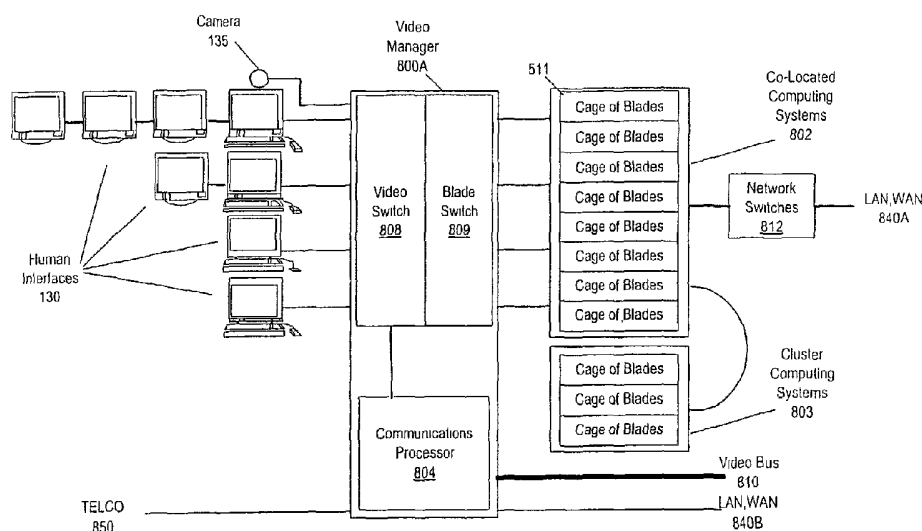
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[Continued on next page]

(54) Title: DISTRIBUTING VIDEO DATA IN A SYSTEM COMPRISING CO-LOCATED COMPUTERS AND REMOTE HUMAN INTERFACES



(57) Abstract: System and method for operating a system including one or more co-located computers, e.g., rack-mounted blades, coupled to one or more remote human interfaces (RHIs), and where content or communication is received from sources, e.g., external content sources, internal or external communications sources, etc., and distributed to the RHIs. A first computing system generates first video signals corresponding to a first image for transmission to a display device in a first RHI. The video manager receives a second image from a source, and inserts second video signals corresponding to the second image with the first video signals to form third video signals. The display device of the first RHI displays a third image based on the third video signals, e.g., a picture-in-picture presentation of the second and first images. The first, second, and third video signals may include video streams and/or audio signals, and may be analog, digital, or both.

WO 2004/010697 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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.

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13 May 2004

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06F3/14 H04N7/18

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 H04N 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)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/000539 A1 (HELLER ANDREW ET AL) 26 April 2001 (2001-04-26) paragraphs '0003!', '0043!', '0053!', '0060!', '0063!; figures 2-5 ---	1-5, 9-24, 26, 31, 32
Y	WO 01 13637 A (BABURIN ALEXANDER STEPHEN ;BROWN ALEXANDER JAMES (AU); HONEYWELL L) 22 February 2001 (2001-02-22) page 14, line 3 - line 11; figure 3 page 14, line 20 -page 15, line 16; figure 7 page 16, line 16 - line 19; figures 5,6 page 43, line 10 - line 18 --- -/--	1-5, 9-24, 26, 31, 32

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
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Date of the actual completion of the international search 8 March 2004	Date of mailing of the international search report 25. 03. 04
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gundlach, H
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INTERNATIONAL SEARCH REPORT

Internatid	Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004 010281 A (CLEARCUBE TECHNOLOGY INC) 29 January 2004 (2004-01-29)	6, 25, 27
X	claim 1	6, 27
X	claim 56 -----	25

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/22563

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 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:

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.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. Claims: 1-24,26-28,31-32

NB: Claims 1 - 5, 9 - 24, 31 & 32 do not appear to be inventive:

Regarding claim 1:

Document D1 (US-A1-2001000539) discloses a system comprising a plurality of computing systems, the system comprising: a plurality of computing systems, wherein the plurality of computing systems are located at a common location (see "computer card" 108 A ... C in "cage" 211 in D1, Fig. 4 & par. 60);

a plurality of human interfaces, wherein each of the human interfaces is located remotely from the common location (see "human interface devices" 113 A ... C in D1, Fig. 4 & par. 60, wherein each of the human interfaces includes a display device for displaying images (see "monitor" 112 A ... C in D1, Fig. 4 & par. 60) and wherein each of the plurality of computing systems is operable to generate a first image to be displayed on a connected display device in a connected one of the plurality of human interfaces (see "human interface logic" 303 in D1, Fig. 3 & par. 53); and a plurality of communication mediums coupling each of the plurality of computing systems to one of the plurality of human interfaces (see "human interface cable" 105 A in Fig. 4, 5 & par. 63).

D2 (W0-A-0113637) discloses:

a video manager comprising a central video server (see "video server" 8 in D2, Fig. 3 & page 14, line 3 & page 43, lines 10 - 18), which is coupled to each of a plurality of remote human interfaces (see "TCP/IP Network" 6 and "client computer" 10 in D2, Fig. 3 & page 14, lines 4 - 11 & see "Human Machine Interface client" 26 in D2, page 16, lines 16 - 19) distributing images and

that means exist which are coupled to the human machine interface clients to enable the human machine interface clients running on remote computers to insert the distributed images into an image generated from the human machine interface clients themselves (see D2, Fig. 5, 6).

The advantage of the device according to D2 is obvious, i.e. D2 allows to view centrally stored videos on remote computers. A skilled person improving the performance of the device acc. to D1 with regard to the provision of live videos would implement the solution of a system for digital video management according to D2 in the device of D1. Thus, he would arrive at the subject-matter of claim 1. Hence, this subject-matter the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT. Claims 2 - 5, 9 - 24, 26, 31 & 32 are also rendered obvious by D1 and D2.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US 03 22563

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

2. Claims: 25,29,30

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US 03/22563

Patent document cited in search report	A1	Publication date	Patent family member(s)	Publication date
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			US 2004015597 A1	22-01-2004