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12/115,556 6 May 2008 (06.05.2008) US(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; Attn: Sharon Rydberg, LCA, International Patents Department, One Microsoft Way, Redmond, WA 98052-6399 (US).(72) Inventors: **THAKKAR, Pulin**; c/o Microsoft Corporation, LCA, International Patents Department, One Microsoft Way, Redmond, WA 98052-6399 (US). **SINGH, Noor-E-Gagan**; c/o Microsoft Corporation, LCA, International Patents Department, One Microsoft Way, Redmond, WA 98052-6399 (US). **JAIN, Stuti**; c/o Microsoft Corporation, LCA, International Patents Department, One Microsoft Way, Redmond, WA 98052-6399 (US). **BHATTACHARJEE, Avronil**; c/o Microsoft Corporation, LCA, International Patents Department, One Microsoft Way, Redmond, WA 98052-6399 (US).

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Declarations under Rule 4.17:

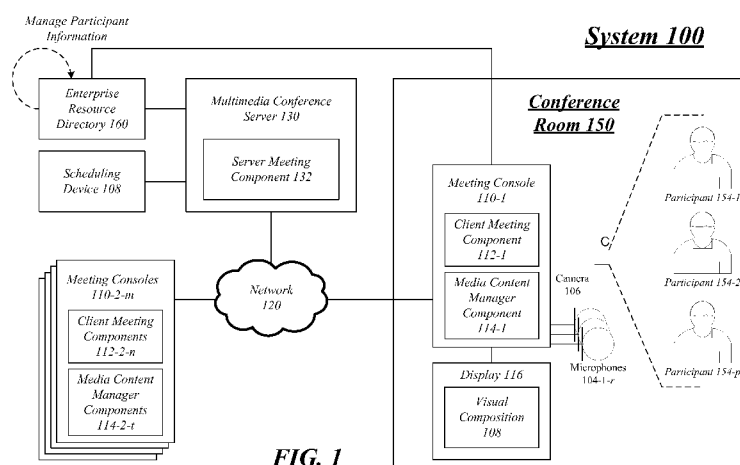
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

[Continued on next page]

(54) Title: TECHNIQUES TO MANAGE MEDIA CONTENT FOR A MULTIMEDIA CONFERENCE EVENT

**FIG. 1**

(57) **Abstract:** Techniques to manage media content for a multimedia conference event are described. A media content manager component is operative to generate a visual composition for a multimedia conference event. The media content manager component may comprise a video decoder module operative to decode multiple media streams for a multimedia conference event. The media content manager component may comprise a media stream manager module operative to determine a total number of decoded media streams is greater than a total number of available display frames in a visual composition. The media content manager component may comprise a media selection module operative to select an active group of decoded media streams from among the total number of decoded media streams for mapping to the available display frames based on speech activity. Other embodiments are described and claimed.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

18 February 2010

A. CLASSIFICATION OF SUBJECT MATTER***H04N 7/24(2006.01)i, H04N 7/15(2006.01)i***

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)

H04N 7/24; G06F 15/16; G09G 5/00; H04N 7/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models since 1975.

Japanese utility models and applications for utility models since 1975.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

e-Kompass "Multimedia, Decoding, Visual composition, Display frame"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007-0299981 A1 (RANDALL BAIRD) 27 December 2007 See abstract; Paragraph[0012] - Paragraph[0057]; Figure 4A.	1-3,12-14
A	US 2007-0035470 A1 (LEE et al.) 15 February 2007 See abstract; Paragraph[0012] - Paragraph[0047]; Paragraph[0128] - Paragraph[0131]; Figures 2, 15.	1-3,12-14
A	US 2006-0092269 A1 (BAIRD et al.) 04 May 2006 See abstract; Paragraph[0014] - Paragraph[0018]; Paragraph[0085]; Figures 1-3.	1-3,12-14



Further documents are listed in the continuation of Box C.



See patent family 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 application or patent 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 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

Date of the actual completion of the international search

10 DECEMBER 2009 (10.12.2009)

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Name and mailing address of the ISA/KR

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Telephone No. 82-42-481-8372



INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US2009/040926**Box No. 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.: 4-11, 15
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. 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:

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 and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/040926

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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