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*[Continued on next page]*

(54) **Title:** METHODS AND SYSTEMS FOR RESIZING MULTIMEDIA CONTENT BASED ON QUALITY AND RATE INFORMATION

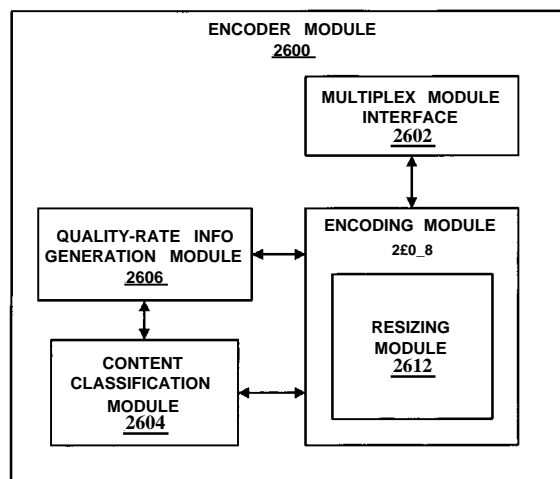


FIG. 26

(57) **Abstract:** In general, this disclosure describes techniques for exchanging information between a plurality of encoder modules and a multiplex module to combine segments of data from the encoder modules with an improved overall quality. In particular, the encoder modules associate their respective segments of data with quality and rate information and send at least the quality and rate information associated with the segments of data to the multiplex module. The multiplex module analyzes the quality and rate information to determine whether the segments of data that encoder modules desire to include in the current superframe fit within the available bandwidth of a transmission channel. If the multiplex module determines the plurality of segments of data do not fit within the available bandwidth, the multiplex module selects one or more of the segments to be resized based on the quality and rate information received from the encoder modules.

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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)  
H04N 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, INSPEC**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/110876 A (QUALCOMM INC [US]; DAHL STEN JORGEN [US]; SHAH DEVARSHI [US]; IYER BHA) 19 October 2006 (2006-10-19)  paragraph [0008] paragraph [0014] - paragraph [0015] paragraph [0053] paragraph [0101] paragraph [0129] - paragraph [0135] figure 2	1-10, 12-24, 26-36, 38-47, 49-61, 63-114
Y	----- -/--	11, 25, 37, 48, 62

Further documents are listed in the continuation of Box C.

See patent family annex.

- \* Special categories of cited documents :
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| <p>'A' document defining the general state of the art which is not considered to be of particular relevance</p> <p>'E' earlier document but published on or after the international filing date</p> <p>'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)</p> <p>'O' document referring to an oral disclosure, use, exhibition or other means</p> <p>'P' document published prior to the international filing date but later than the priority date claimed</p> | <p>'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</p> <p>"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</p> <p>"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.</p> <p>"&amp;" document member of the same patent family</p> |
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Date of the actual completion of the international search  <b>17 July 2008</b>	Date of mailing of the international search report  24/07/2008
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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  <p style="text-align: center;"><b>Moreno , Marta</b></p>
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**INTERNATIONAL SEARCH REPORT**

International application No  
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	US 2004/213466 AI (KODAMA TAKU [JP] ET AL) 28 October 2004 (2004-10-28) paragraph [0163] paragraph [0169] figure 15 <p align="center">-----</p>	1, 15,29, 38,52
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Information on patent family members

International application No <b>PCT/US2008/052497</b>
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