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(54) Title: SYSTEM AND METHOD FOR DETECTING HIGHLIGHTS IN A VIDEO PROGRAM USING AUDIO PROPER-

(57) Abstract: There is disclosed an apparatus for detecting program highlights in a video program. The apparatus comprises: 1) a keyword detection circuit for detecting a location of a selected keyword in an audio track of the video program; and 2) an audio signal energy level detection circuit for determining an audio signal energy level of the audio track proximate the detected location of the selected keyword and comparing the audio signal energy level to a predetermined threshold. The audio signal energy level detection circuit, in response to a determination that the audio signal energy level exceeds the predetermined threshold, identifies the detected location of the selected keyword as a program highlight.

INTERNATIONAL SEARCH REPORT

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ								
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.					
X	KANADA T: "IMMERSION INTO VISUAL MEDIA: 1-19 NEW APPLICATIONS OF IMAGE UNDERSTANDING" IEEE EXPERT, IEEE INC. NEW YORK, US, vol. 1, no. 1,							
	1 February 1996 (1996-02-01), pages 73-80, XP000585056 ISSN: 0885-9000 page 74, right column "Informedia: integrating speech, language and image understanding" - page 76, right column "Virtualized reality"							
A	US 5 859 662 A (CRAGUN BRIAN JOHN ET AL) 12 January 1999 (1999-01-12) column 2, line 20 -column 3, line 14/							
Y Furth	ner documents are listed in the continuation of box C.	χ Patent family n	nembers are listed in annex.					
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In al Application No
PCT/EP 01/11975

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
alegory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	EP 1 026 887 A (SHARP KK) 9 August 2000 (2000-08-09) sections '0024!-'0028!	1-19

INTERNATIONAL SEARCH REPORT

Intc....al Application No
PCT/EP 01/11975

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5859662	Α	12-01-1999	US US DE DE EP JP JP	5561457 A 5481296 A 69427261 D1 69427261 T2 0648054 A2 2745496 B2 7079423 A	01-10-1996 02-01-1996 28-06-2001 11-10-2001 12-04-1995 28-04-1998 20-03-1995
EP 1026887	A	09-08-2000	US EP JP US	6236395 B1 1026887 A2 2000253377 A 2001010523 A1	22-05-2001 09-08-2000 14-09-2000 02-08-2001