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Declaration under Rule 4.17:

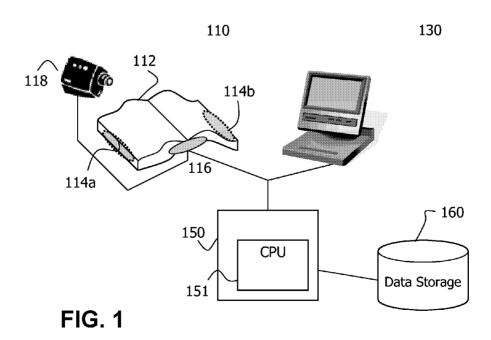
as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR ANALYSING AN EMOTIONAL STATE OF A USER BEING PROVIDED WITH CONTENT INFORMATION



(57) Abstract: The invention relates to a method of analysing an emotional state of a user being provided with content information in a consumer electronics interface. The method comprises steps of: (210) obtaining physiological data indicating the user's emotional state; (230) identifying a part of the content information related to the physiological data; and (240) storing the physiological data with a reference to the related part of the content information. The invention also relates to a device, a data storage for storing physiological data, and to a computer program.



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INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED

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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

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 422 639 A (EASTMAN KODAK CO [US]) 26 May 2004 (2004-05-26) page 4, paragraph 22 - page 5, paragraph 31	1-11, 13-15
	page 3, paragraphs 11,16	
	page 5, paragraphs 33,37	10
Y	page 8, paragraphs 57,58	12
X	US 2003/156304 A1 (FEDOROVSKAYA ELENA A [US] ET AL) 21 August 2003 (2003-08-21) page 1, paragraph 7-11 page 2, paragraphs 25,27,28,30-38 page 3, paragraph 51-53 page 6, paragraph 88	1,2,4,6, 8,13-15
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X Further documents are listed in the continuation of Box C.	X See patent family annex.
'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
Date of the actual completion of the international search	Date of mailing of the international search report
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NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Del Chiaro, Silvia

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International application No
PCT/IB2006/053442

		FC1/18200	06/053442				
C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	*Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.				
х	US 5 507 291 A (STIRBL ROBERT C [US] ET AL) 16 April 1996 (1996-04-16) column 1, line 65 - column 2, line 67 page 3, line 54 - line 64 page 4, line 8 - line 16 page 4, line 44 - line 54 column 6, line 12 - line 22 column 9, line 21 - line 31 column 12, line 60 - line 66		1,8, 13-15				
Y	EP 1 532 926 A (SONY CORP [JP]) 25 May 2005 (2005-05-25) column 3, paragraphs 14,15 column 4, paragraph 22 column 5, paragraphs 5,26 column 6, line 32 - line 35 column 6, line 2 - line 7 column 7, paragraph 37 column 8, paragraphs 40,41 figure 3		12				
A	US 2002/193707 A1 (ATLAS DAN [IL] ET AL) 19 December 2002 (2002-12-19) page 2, paragraphs 30,33,34 page 3, paragraphs 42,43 page 4, paragraph 54		1-15				
·			:				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2006/053442

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1422639	Α	26-05-2004	CN 1510903 A JP 2004178593 A US 2004101212 A1 US 2007201731 A1	07-07-2004 24-06-2004 27-05-2004 30-08-2007
US 2003156304	A1	21-08-2003	NONE	
US 5507291	Α	16-04-1996	NONE	
EP 1532926	A	25-05-2005	CN 1626029 A JP 3953024 B2 JP 2005152054 A KR 20050049370 A US 2007135689 A1 US 2005114142 A1	15-06-2005 01-08-2007 16-06-2005 25-05-2005 14-06-2007 26-05-2005
US 2002193707	A1	19-12-2002	NONE	