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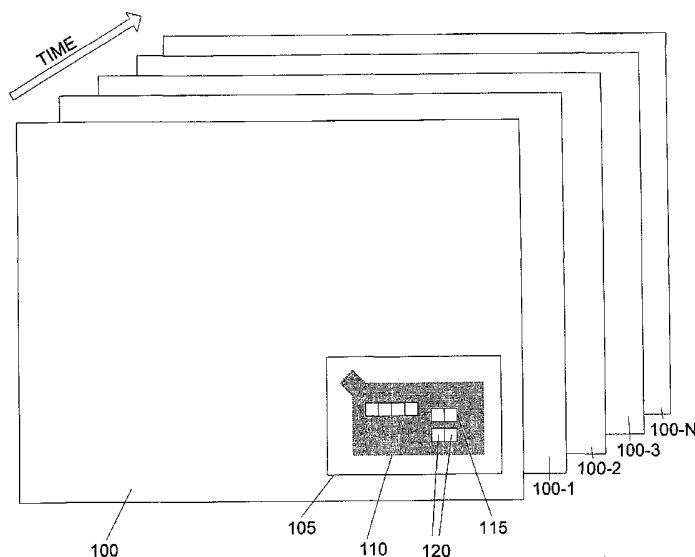
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHOD FOR EXTRACTING TEXT CAPTIONS FROM VIDEO AND GENERATING VIDEO SUMMARIES



(57) Abstract: Caption boxes which are embedded in video content can be located and the text within the caption boxes decoded. Real time processing is enhanced by locating caption box regions in the compressed video domain (210) and performing pixel based processing operations within the region of the video frame in which a caption box is located. The captions boxes are further refined by identifying word regions (240) within the caption boxes and then applying character and word recognition processing (250) to the identified word regions. Domain based models are used to improve text recognition results. The extracted caption box text can be used to detect events of interest in the video content and a semantic model applied to extract a segment of video of the event of interest.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/39247

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04B 1/66
 US CL : 375/240.13

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)
 U.S. : 375/240.13, 240.25; 382/321; 348/589,416, 416, 699, 700, 420

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,243,419 B1 (SATO et al) 05 June 2001, figure 10	1
A	US 5,572,260 A (ONISHI et al) 05 November 1996, figure 1	1
A	US 6,297,797 B1 (TAKEUCHI et al) 02 October 2001, All	1

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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	

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