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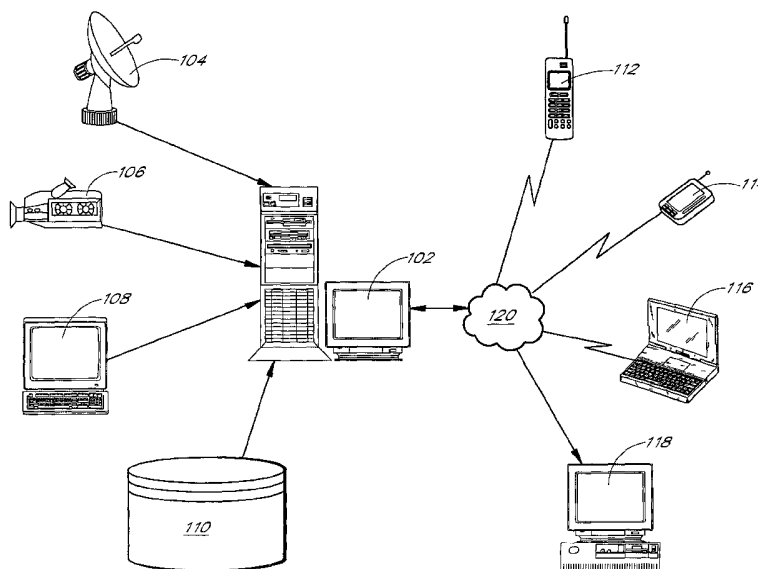
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS OF ERROR RESILIENCE IN A VIDEO DECODER



(57) Abstract: The method and apparatus conceal errors in images of a corrupted video bitstream (2); that cover usable video data from partially corrupted data; that advantageously reconstruct and decode video data (3), such as video object planes (VOPs), using forward error correction (FEC) codes embedded in the video bitstream; and that manage data received in a video bitstream. Various concealment techniques are performed in this apparatus. Embodiments inspect corrupted data packets identify the location or locations of an error, whether the corrupted data packet contains data expected to be error-free (6), data should be used. Backward compatible techniques of decoding FEC codes embedded in video bitstreams are shown (9).



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04N 7/12; H04N 7/32; G10L 3/00; H04B 1/66
 US CL : 375/240, 240.02, 240.26, 240.27; 348/415.1, 416.1, 417.1, 420, 845.1, 845.3; 704/228.

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, 240.02, 240.26, 240.27; 348/415.1, 416.1, 417.1, 420, 845.1, 845.3; 704/228.

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,912,707 A (KIM) 15 JUNE 1999, figs. 1-3.	1-99
Y	US 5,936,674 A (KIM) 10 AUGUST 1999, figs. 1-2	1-99
A	US 5,995,171 A (ENARI et al.) 30 NOVEMBER 1999, fig. 1.	1-99

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"
"A" document defining the general state of the art which is not considered to be of particular relevance	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
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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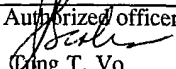
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