METHOD AND SYSTEM FOR PROVIDING A HIGH SPEED MULTI-STREAM MPEG PROCESSOR

(57) Abstract: An MPEG processor is provided (Fig. 2). According to one aspect of the processor, multiple MPEG data streams for corresponding channels are individually stored in an off-chip memory (Fig. 2, item 26). Corresponding data for a channel is then retrieved from the off-chip memory for processing. The retrieved data is then decoded (Fig. 2, item 18). The decoded results and associated information are stored on the off-chip memory. Some or all of the associated information that can be used for decoding subsequent data is stored in an on-chip memory (Fig. 2, item 26). When video images need to be displayed, the corresponding data that is needed for that purpose is then retrieved from the off-chip memory and provided to an analog encoder for encoding in a format that is compatible with an analog display device (Fig. 2, item 24).
Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv)) for US only

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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.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC/O : HOAN 7/12, 5/272, 5/445; G05K 9/36
US CL : 375/240.2, 240.26, 240.16; 382/236; 345/547
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minima documentation searched (classification system followed by classification symbols)
U.S. : 375/240.2, 240.26, 240.16; 382/236; 345/547

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 6,088,047 A (BOSE et al) 11 July 2000, column 5, lines 1-27.</td>
<td>1-52</td>
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<tr>
<td>A</td>
<td>US 5,969,768 A (BOYCE et al) 19 October 1999, column 2, lines 24-64.</td>
<td>1-52</td>
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<tr>
<td>A</td>
<td>US 6,141,059 A (BOYCE et al.) 31 October 2000, column 2, lines 28-61.</td>
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Date of the actual completion of the international search: 24 January 2005

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