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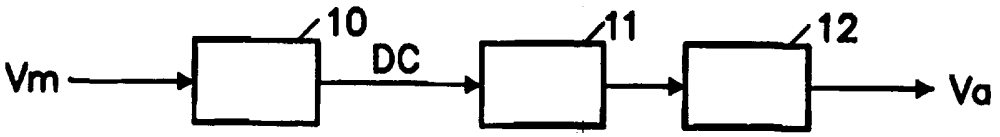
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(54) Title: ARRANGEMENT FOR DECODING DIGITAL VIDEO SIGNALS




(57) Abstract

The invention relates to an arrangement for deriving an ancillary signal from a compressed digital video signal (e.g. MPEG). The ancillary signal comprises selected parts of the main signal, for example, the DC coefficients of I-pictures, or the unscrambled parts. The ancillary signal thus obtained can be used for display in a (multi-) picture-in-picture television receiver, or as an "appetizer" in order to encourage the user to pay a subscription fee. The ancillary signal can separately be recorded in digital video recorders so as to assist the user in finding the beginning of a scrambled program on tape. The ancillary signal can also be generated at the transmitter end and transmitted at a low bit rate. A decoder for decoding such an ancillary signal is considerably simpler and less expensive than a full-spec MPEG decoder.

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International application No.
PCT/IB 95/00256

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04N 7/50, H04N 7/58
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)

IPC6: H04N

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 practicable, search terms used)

ORBIT, DIALOG

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | EP 0505985 A2 (KABUSHIKI KAISHA TOSHIBA), 30 Sept 1992 (30.09.92), page 2, line 24 - line 42; page 7, line 49 - page 8, line 19; page 9, line 3 - line 29, page 9, line 49 - page 10, line 17, figures 1,4,21,24 | 1-3,7-11, 15-18 |
| Y | -- | 4-6,12-14 |
| Y | EP 0534139 A2 (INTERNATIONAL BUSINESS MASCHINES CORPORATION), 31 March 1993 (31.03.93), page 3, line 30 - line 48, figure 1 | 4-6,12-14 |
| A | -- | 1-3,7-11, 15-18 |

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

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| 20 October 1995 | 24 -10- 1995 |
| Name and mailing address of the ISA/<br>Swedish Patent Office<br>Box 5055, S-102 42 STOCKHOLM<br>Facsimile No. +46 8 666 02 86 | Authorized officer<br><br>Christian Rasch<br>Telephone No. +46 8 782 25 00 |

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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| P,A | -- | 4-6,12-14 |
| A | US 5157511 A (T. KAWAI ET AL), 20 October 1992 (20.10.92), column 1, line 41 - column 2, line 50 | 4-6,12-14 |
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| P,A | EP 0606868 A2 (SONY CORPORATION), 20 July 1994 (20.07.94), column 2, line 15 - line 25; column 16, line 11 - line 28, figures 1,10,16 | 1-18 |
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Information on patent family members

02/10/95

International application No.
PCT/IB 95/00256

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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| | | EP-A,A,A 0410579 | 30/01/91 |
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| EP-A2- 0606868 | 20/07/94 | NONE | |