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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))*

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
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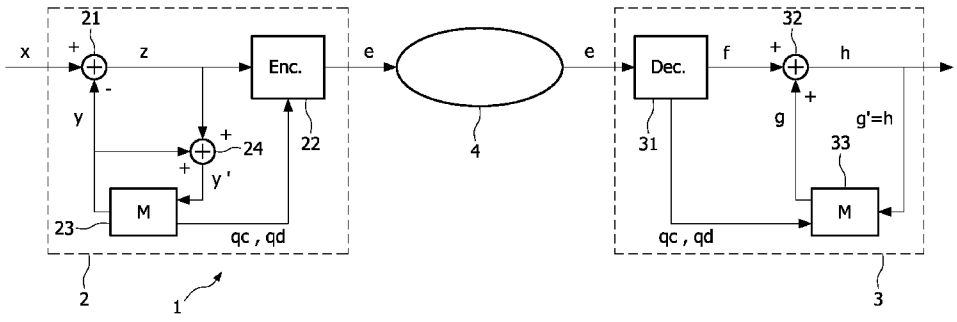
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DIFFERENTIAL CODING WITH LOSSY EMBEDDED COMPRESSION



(57) Abstract: A coding system (1) comprises an encoder device (2) and a decoder device (3) which both have a memory unit (23; 33) arranged in a loop for generating a prediction signal (y; g). The memory units apply lossy compression to reduce the memory requirements. In order to prevent drift due to dissimilar data reduction, the lossy compression in the encoder device (2) is substantially identical to the lossy compression in the decoder device (3). For example, both compressions may involve identical algorithms, compression factors and/or compression parameters. Information indicative of the lossy compression and / or decompression is added by the encoded.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. H04N7/26 H04N7/36

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)
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 practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BOURGE A ET AL: "Low-power H.264 video decoder with graceful degradation" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 5308, no. 1, 2004, pages 372-383, XP002334017 ISSN: 0277-786X page 374, paragraph 2.3; figure 2 page 380, paragraph 4.3 -----	1-5, 16-20,30
Y	US 5 708 511 A (GANDHI BHAVAN R [US] ET AL) 13 January 1998 (1998-01-13) abstract; figures 1,2,9 column 2, line 32 - line 37 column 2, line 66 - column 3, line 11 column 8, line 5 - column 10, line 8 column 11, line 41 - line 48 ----- -/--	1-5, 16-20,30

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"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
9 July 2007	01/10/2007

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Gries, Thomas

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/050577

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/039158 A (KONINKL PHILIPS ELECTRONICS NV [NL]) 8 May 2003 (2003-05-08) cited in the application page 4, line 20 - page 5, line 16	1-5, 16-20,30
A	US 4 903 317 A (NISHIHARA EITARO [JP] ET AL) 20 February 1990 (1990-02-20) the whole document	1-5, 16-20,30
A	WO 99/53677 A (KONINKL PHILIPS ELECTRONICS NV [NL]; PHILIPS SVENSKA AB [SE]) 21 October 1999 (1999-10-21) the whole document	1-5, 16-20,30
A	VAN DER SCHAAR-MITREA M ET AL: "Near-lossless embedded compression algorithm for cost reduction in DTV receivers" CONSUMER ELECTRONICS, 1999. ICCE. INTERNATIONAL CONFERENCE ON LOS ANGELES, CA, USA 22-24 JUNE 1999, PISCATAWAY, NJ, USA,IEEE, US, 22 June 1999 (1999-06-22), pages 112-113, XP010346571 ISBN: 0-7803-5123-1 the whole document	1-5, 16-20,30

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2007/050577

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5,16-20,30

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,16-20,30

   Encoder and decoder device, encoding and decoding method, transmission system and encoded signal with lossy embedded memory compression and adding or receiving and interpreting information indicative of the lossy compression and/or decompression.

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2. claims: 6-15,21-29

   Encoder and decoder device, encoding and decoding method, transmission system and encoded signal with lossy embedded memory compression and adding or receiving wherein the embedded compression of the decoder is similar, preferably identical, to the embedded compression of the encoder.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IB2007/050577

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5708511 A	13-01-1998	EP 0734174 A2	25-09-1996
		JP 3749752 B2	01-03-2006
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