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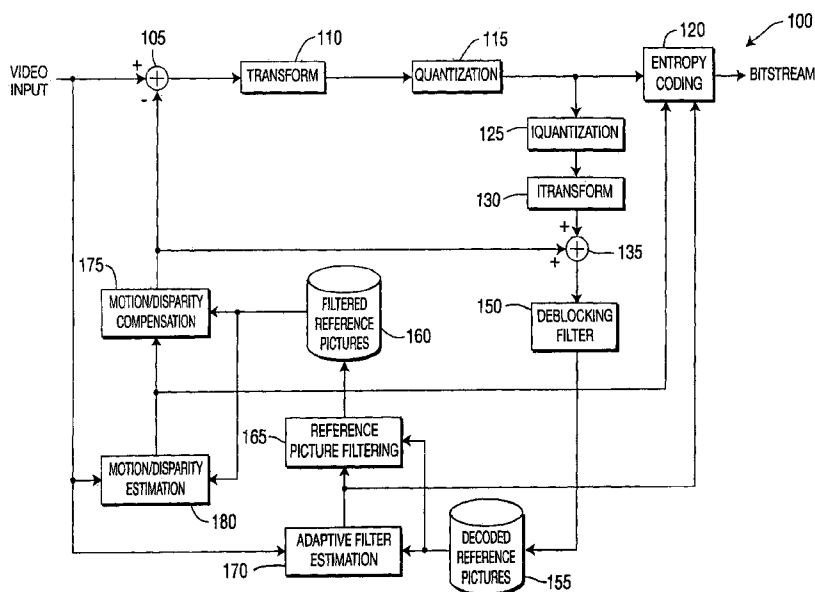
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(54) Title: METHODS AND APPARATUS FOR ADAPTIVE REFERENCE FILTERING



(57) Abstract: There are provided methods and apparatus for adaptive reference filtering. An apparatus includes an encoder (100) for encoding at least one picture. The encoder (100) performs adaptive filtering of at least one reference picture to respectively obtain at least one filtered reference picture, and predictively codes the at least one picture using the at least one filtered reference picture. The at least one reference picture is a picture wherein at least one sample thereof is used for inter-prediction either of subsequent to the at least one sample being applied to an in-loop filter or in an absence of the at least one sample being applied to an in-loop filter.

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**INTERNATIONAL SEARCH REPORT**

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

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, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VATIS Y ET AL: "Motion-And Aliasing-Compensated Prediction Using a Two-Dimensional Non-Separable Adaptive Wiener Interpolation Filter" IMAGE PROCESSING, 2005. ICIP 2005. IEEE INTERNATIONAL CONFERENCE ON GENOVA, ITALY 11-14 SEPT. 2005, PISCATAWAY, NJ, USA, IEEE, 11 September 2005 (2005-09-11), pages 894-897, XP002406855 ISBN: 0-7803-9134-9	1-4, 8-10, 12-16, 20-22, 24-31, 33-40, 42-44
Y	abstract  figure 1 pages 894-897, paragraphs 1,2,5  ----- -/--	5-7,11, 17-19, 23,32,41

Further documents are listed in the continuation of Box C.

See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>C. A. BOUMAN ET AL.: "Cluster: an unsupervised algorithm for modeling gaussian mixtures"[Online] 1 July 2005 (2005-07-01), XP002464224 Retrieved from the Internet: URL:http://cobweb.ecn.purdue.edu/{bouman/software/cluster/manual.pdf}&gt; [retrieved on 2008-01-10] abstract page 3, paragraph 1 pages 14-20</p> <p style="text-align: center;">-----</p>	<p>5-7, 17-19</p>
Y	<p>WEDI T: "Adaptive interpolation filters and high-resolution displacements for video coding" IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY IEEE USA, vol. 16, no. 4, April 2006 (2006-04), pages 484-491, XP002464225 STEVENAGE, GB ISSN: 1051-8215 page 488, paragraph C</p> <p style="text-align: center;">-----</p>	<p>11,23, 32,41</p>
X	<p>BUDAGAVI M: "Video Compression using Blur Compensation" IMAGE PROCESSING, 2005. ICIP 2005. IEEE INTERNATIONAL CONFERENCE ON GENOVA, ITALY 11-14 SEPT. 2005, PISCATAWAY, NJ, USA,IEEE, 11 September 2005 (2005-09-11), pages 882-885, XP010851195 ISBN: 0-7803-9134-9 pages 882-884, paragraphs I,II</p> <p style="text-align: center;">-----</p>	<p>1,13,25, 34,43,44</p>