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(54) Title: PROCESSING AN INPUT IMAGE TO REDUCE COMPRESSION-RELATED ARTIFACTS

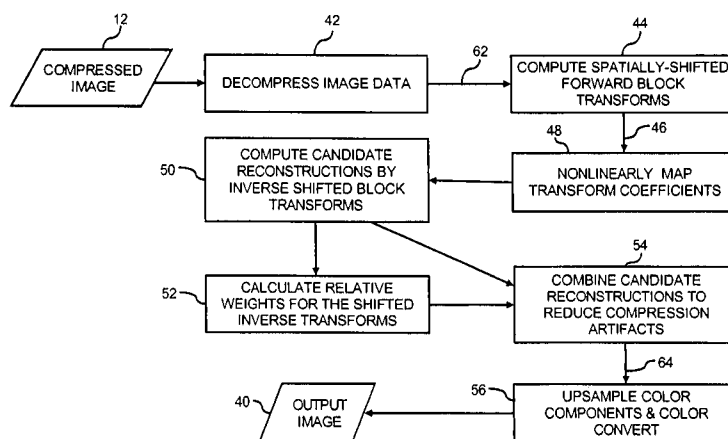


FIG. 3

(57) Abstract: An input image (62) is processed to reduce compression-related artifacts. The processing involves generating (44) block transforms of multiple versions of the input image, each version having a respective block-grid location that is shifted with respect to the block-grid locations of other versions. The transform coefficients are modified (46), and reverse transforms computed (50) to generate candidate reconstructions. Per-pixel relative weights are determined (52) for the candidate reconstructions where the relative weights for a pixel are related to its local context as set in each of the candidate reconstructions by the block in which that pixel is located. A weighted average of the candidate reconstructions is then computed (54) using the per-pixel relative weights to produce an artifact-reduced image.

A. CLASSIFICATION OF SUBJECT MATTER***H04N 7/26(2006.01)i***

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)

IPC8 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)

eKIPASS(KIPO internal) : block transform, reduce compression, weighted average

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6766341 B1 (TRELEWIEZ et al) 20 July 2004. See abstract; Column 3, line 01 - Column 5, 45; Fig. 2 - Fig. 4; Claim 1, 19, 65.	1-18
A	US 2003/0081674 A1 (MALVAR) 01 May 2003. See abstract; [0006]-[0009] in the detailed description; Fig. 2; Claim 1, 11, 21.	1-18
A	US 2007/0036223 A1 (SRINIVASAN) 15 February 2007. See abstract; [0017]-[0022] in the detailed description; Fig 1, 4, 5; Claim 1, 14, 18.	1-18

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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