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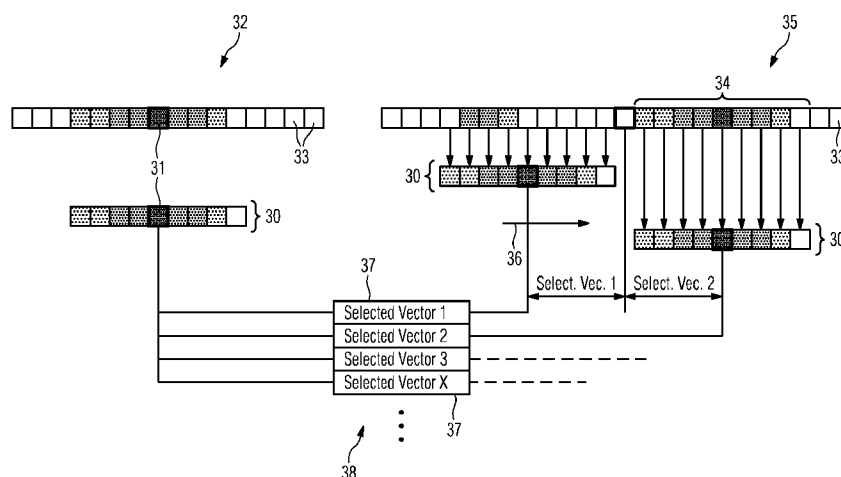


FIG. 5

(57) Abstract: The present invention is related to a method and an apparatus for line-based motion estimation in video image data, especially for field rate up-conversion in consecutive frames/fields of a motion picture, comprising the steps of: providing a video signal comprising video image data of a several video lines or part of these video lines of a frame or a field; performing the motion estimation by line-based detecting and analysing the video image data and by deriving motion vectors depending on the detected motion; wherein the motion estimation employs a matching process for testing and up-dating the different lines within a field or frame and wherein matching process is different for the first line of the frame or field compared to the other lines of the same frame or field. The present invention is further related to TV-set, a computer program product and a data carrier comprising a computer program.

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

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EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/161400 A1 (DINERSTEIN JONATHAN J [US] ET AL) 28 August 2003 (2003-08-28) paragraph [0011] - paragraph [0012] sentence 9, paragraph 30 - last sentence , paragraph 30; figure 1 -----	1-14
X	EP 1 128 678 A (KONINKL PHILIPS ELECTRONICS NV [NL]) 29 August 2001 (2001-08-29) paragraph [0010] - paragraph [0011]; figure 1 -----	1-14
A	US 2005/249286 A1 (NICOLAS MARINA [FR]) 10 November 2005 (2005-11-10) paragraph [0023] paragraph [0039] ----- -/-	1-14



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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.
A	US 6 108 047 A (CHEN TING-CHUNG [US]) 22 August 2000 (2000-08-22) abstract -----	1-14
A	MEI-JUAN CHEN ET AL: "ONE-DIMENSIONAL FULL SEARCH MOTION ESTIMATION ALGORITHM FOR VIDEO CODING" 1 October 1994 (1994-10-01), IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, PAGE(S) 504 - 509 , XP000471051 ISSN: 1051-8215 II. PROPOSED ONE-DIMENSIONAL FULL SEARCH ALGORITHM -----	1-14

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