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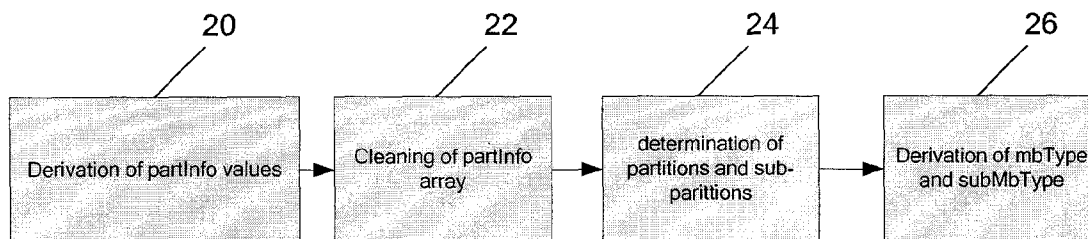
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(54) Title: SIMPLIFIED INTER-LAYER MOTION PREDICTION FOR SCALABLE VIDEO CODING



(57) Abstract: The invention relates to a method for determining for a high layer macroblock that uses inter-layer prediction a partitioning of the macroblock in partitions. It comprises the following steps: - dividing the high layer macroblock in non-overlapping high layer blocks of a predefined size; - determining a corresponding base layer pixel for one pixel, called reference pixel, of each high layer block; - identifying, for each reference pixel, a base layer macroblock to which the corresponding base layer pixel belongs, a base layer partition to which the corresponding base layer pixel belongs in the identified base layer macroblock, a base layer sub-partition to which the corresponding base layer pixel belongs in the identified base layer partition if the sub-partition exists; - deriving, for each of the high layer block, a single value, called PartInfo value; and - determining a partitioning of the high layer macroblock in macroblock partitions by comparing between them the PartInfo values associated with each of the high layer blocks.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WIEGAND T; ET AL: "Joint Scalable Video Model JSVM-6: Joint Draft 6 with proposed changes" JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG AND ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), [Online] 1 April 2006 (2006-04-01), pages I-XVI, 18-36, 349-355, XP002456513 Retrieved from the Internet: URL: http://ftp3.itu.ch/av-arch/jvt-site/2006_04_Geneva/JVT-S202.zip [retrieved on 2007-10-24] paragraphs [6.4.1] - [6.4.9], [F.6.1] - [F.6.4]	1-8
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WIEGAND T; ET AL: "Joint Scalable Video Model JSVM-5: Joint Draft 5 with proposed changes"</p> <p>JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG AND ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), [Online] 14 January 2006 (2006-01-14), pages I-XV, 18-36, 348-361, XP002456514 Retrieved from the Internet: URL: http://ftp3.itu.ch/av-arch/jvt-site/2006_01_Bangkok/JVT-R202.zip [retrieved on 2007-10-24] paragraphs [6.4.1] - [6.4.9], [F.6.1] - [F.6.7]</p> <p style="text-align: center;">-----</p>	1-8
A	<p>VIERON J ET AL: "CE10: Unified motion upsampling in extended spatial scalability"</p> <p>JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG AND ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), 2 August 2005 (2005-08-02), XP030006061 paragraphs [3.1.1] - [3.4.2.1]</p> <p style="text-align: center;">-----</p>	1-8
A	<p>VIERON ET AL: "Joint Scalable Video Model JSVM-5"</p> <p>JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, 14 January 2006 (2006-01-14), pages 1-43, XP002410348 cited in the application paragraphs [1.2.5.1.1] - [1.2.5.1.4]</p> <p style="text-align: center;">-----</p>	1-8