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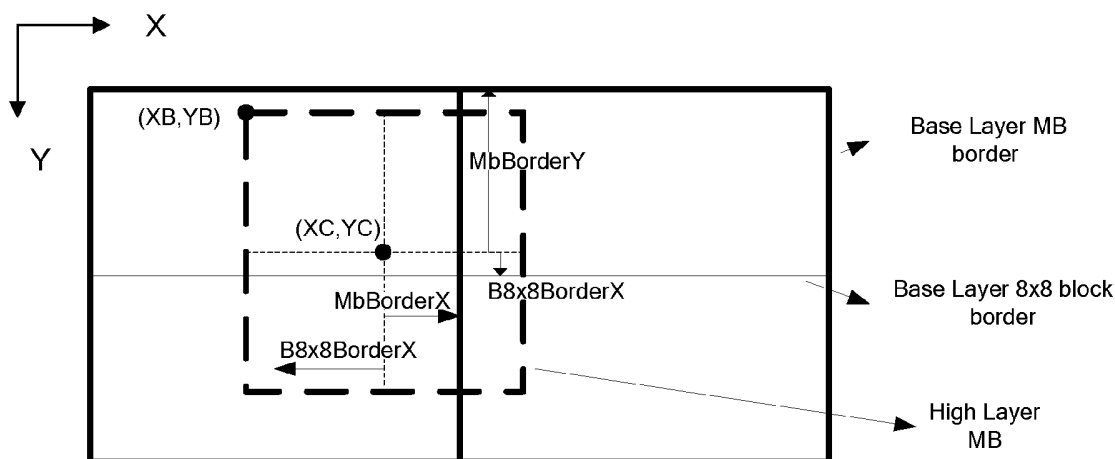
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[Continued on next page]

(54) Title: METHOD FOR DERIVING CODING INFORMATION FOR HIGH RESOLUTION PICTURES FROM LOW RESOLUTION PICTURES AND CODING AND DECODING DEVICES IMPLEMENTING SAID METHOD



(57) Abstract: The invention relates to spatially scalable encoding and decoding processes using a method for deriving coding information. More particularly, it relates to a method for deriving coding information for high resolution pictures from the coding information of low resolution pictures. The method mainly comprises the following steps: - Computing (110) geometrical parameters characterizing the position of said high layer macroblock relatively to the corresponding base layer macroblocks and deriving (120) from these parameters a macroblock class; - Deriving (20) a partition and possibly sub-partitions for each partition of said high layer macroblock from corresponding base layer macroblocks partition and sub-partitions on the basis of the geometrical parameters and HL MB class; and - Deriving (30) motion information for said high layer macroblock from motion information of corresponding base layer macroblocks.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2006/050913

A. CLASSIFICATION OF SUBJECT MATTER INV. H04N7/26		
According to International Patent Classification (IPC) or to both national classification and IPC		
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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.
X,P	REICHEL J ET AL: "JOINT SCALABLE VIDEO MODEL JSVM-4" JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, no. JVT Q202, 31 October 2005 (2005-10-31), pages 1-41, XP002372058 page 10, paragraph 1.2.5 - page 15	1-18
A,P	J, REICHEL, H. SCHWARZ, M. WIEN: "Joint scalable video model JSVM-2" JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), JVT-0202, 22 April 2005 (2005-04-22), pages 1-31, XP002384223 page 14, paragraph 1.2.5 - page 17 ----- -/--	1-18
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		
<input type="checkbox"/> 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	*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	
E earlier document but published on or after the international filing date	*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	
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O document referring to an oral disclosure, use, exhibition or other means	*&* document member of the same patent family	
P document published prior to the international filing date but later than the priority date claimed		
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Name and mailing address of the ISA/ 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	Authorized officer Raeymaekers, P	

INTERNATIONAL SEARCH REPORT

International application No
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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	REICHEL J ET AL: "Joint Scalable Video Model JSVM 0" JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, 17 January 2005 (2005-01-17), pages 1-73, XPO02345849 page 13, paragraph 3.3.2 - page 14 -----	1-18

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2006/050913

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:
see FURTHER INFORMATION sheet PCT/ISA/210

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:

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.:

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

Continuation of Box II.1

1. The subject matter of method claims 1 to 10 can be construed as a method for performing mental acts as such and is, therefore, excluded from patentability under Article Article 17(2) and Rule 39 PCT.

Claims 1 to 10 do not specify any technical means that would be used to carry out any of the steps of the claimed methods. Also, no tangible technical effect is achieved by the claimed methods. The methods of claims 1 to 10 may all exclusively be carried out mentally (at least in theory). Accordingly, the subject matter of claims 1 to 10 falls under the exclusion from patentability of methods for performing mental acts as such (Rule 39 PCT). In this respect, the attention of the application is drawn to decision T914/02.

2. It is suggested to overcome this objection by adding "as part of a process of coding or decoding video signals" (claims 11 and 12) after "deriving coding information" in line 1 of claim 1.