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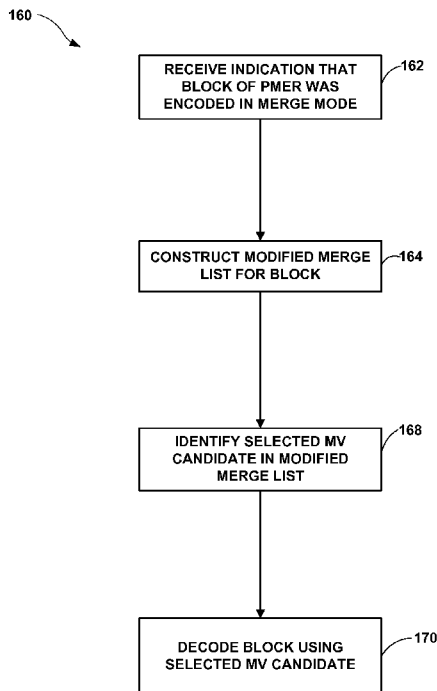
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[Continued on next page]

(54) Title: VIDEO CODING USING PARALLEL MOTION ESTIMATION

FIG. 6B



(57) Abstract: An example video encoder is configured to receive an indication of merge mode coding of a block within a parallel motion estimation region (PMER), generate a merge mode candidate list comprising one or more spatial neighbor motion vector (MV) candidates and one or more temporal motion vector prediction (TMVP) candidates, wherein motion information of at least one of the spatial neighbor MV candidates is known to be unavailable during coding of the block at an encoder, determine an index value identifying, within the merge mode candidate list, one of the TMVP candidates or the spatial neighbor MV candidates for which motion information is available during coding of the particular block, and merge mode code the block using the identified MV candidate.

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TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
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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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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHOU, M.: "AHG10: Configurable and CU-group level parallel merge/skip", 8. JCT-VC MEETING; 99. MPEG MEETING; 1-2-2012 - 10-2-2012; SAN JOSE; (JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11 AND ITU-T SG.16); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/JCTVC-SITE/, , no. JCTVC-H0082,	1-25,29, 30,34-36
Y	20 January 2012 (2012-01-20), XP030111109, the whole document ----- -/--	26-28, 31-33

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* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"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 "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 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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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, Fax: (+31-70) 340-3016	Authorized officer Santos Luque, Rocio
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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.
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A	H. SCHWARZ ET AL: "Comparison of the Coding Efficiency of Video Coding Standards - Including High Efficiency Video Coding (HEVC)", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, 1 January 2012 (2012-01-01), pages 1-1, XP055045359, ISSN: 1051-8215, DOI: 10.1109/TCSVT.2012.2221192 Section III "Encoder Control" -----	1-36
A	GUILLAUME LAROCHE ET AL: "RD Optimized Coding for Motion Vector Predictor Selection", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 17, no. 12, 1 December 2008 (2008-12-01), pages 1681-1691, XP011234848, ISSN: 1051-8215 the whole document -----	26-28, 31-33