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Declarations under Rule 4.17:

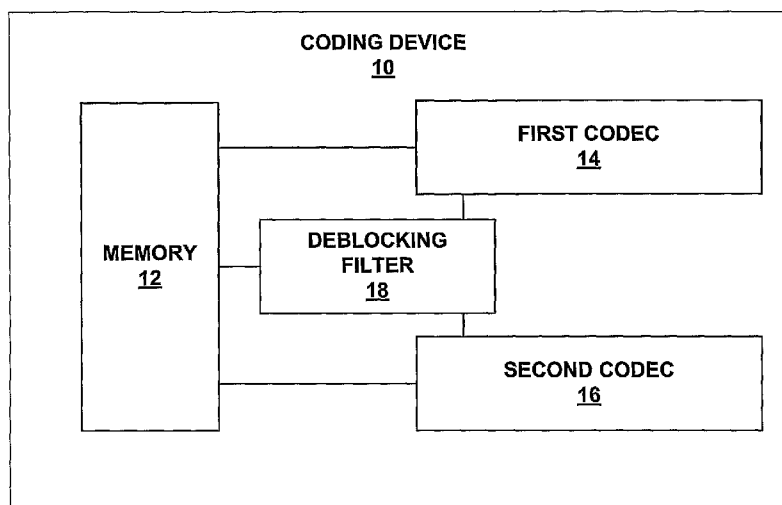
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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[Continued on next page]

(54) **Title:** DEBLOCK FILTERING TECHNIQUES FOR VIDEO CODING ACCORDING TO MULTIPLE VIDEO STANDARDS



(57) **Abstract:** This disclosure describes deblock filtering techniques in which an in-loop deblock filter of a first codec is used as a post deblock filter of a second codec. A number of techniques are also described to facilitate input parameter adjustments and allow for the effective use of the filter with both codecs. The techniques can simplify the architecture of a device that includes multiple codecs operating according to different coding standards. Specifically, the different codecs can use the same deblocking filter regardless of whether the coding standard calls for in-loop filtering or whether post filtering is used. For example, a filter designed as an in-loop deblocking filter for a codec that complies with the ITU-T H.264 coding standard can be used as a post deblocking filter for MPEG-4 video.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. H04N7/26 H04N7/30

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)

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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	XIAOYAN SUN ET AL: "In-loop dfblocking filtfr for block-based video coding" SIGNAL PROCESSING, 2002 6TH INTERNATIONAL CONFERENCE ON AUG. 26-30, 2002, PISCATAWAY, NJ, USA, IEEE, vol. 1, 26 August 2002 (2002-08-26), pages 33-36, XP010627917 ISBN: 0-7803-7488-6 page 33, right-hand column, line 5 - page 33, right-hand column, line 27 page 34, right-hand column, paragraph 3. - page 35, right-hand column, line 3 ----- -/--	1-23

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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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.
X	RUSERT T ET AL: "Enhanced interframe wavelet video coding considering the interrelation of spatio-temporal transform and motion compensation" SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 19, no. 7, August 2004 (2004-08), pages 617-635, XP004524456 ISSN: 0923-5965 page 622, left-hand column, paragraph 4.1 - page 623, right-hand column, paragraph 4.2	1-23
A	MA S ET AL: "A STUDY ON THE QUANTIZATION SCHEME IN H.264/AVC AND ITS APPLICATIONS TO RATE CONTROL" LECTURE NOTES IN COMPUTER SCIENCE, SPRINGER VERLAG, BERLIN, DE, vol. 5, 30 November 2004 (2004-11-30), pages 192-199, XP008066743 ISSN: 0302-9743 the whole document	1-23