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(54) **SUB-PARTITION INTRA PREDICTION**

(71) Applicant: **QUALCOMM Incorporated**, San Diego, CA (US)

(72) Inventors: **Adarsh Krishnan RAMASUBRAMONIAN**, Irvine, CA (US); **Geert VAN DER AUWERA**, San Diego, CA (US); **Luong PHAM VAN**, San Diego, CA (US); **Marta KARCZEWICZ**, San Diego, CA (US)

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(57) **ABSTRACT**

Techniques are described for improving intra-subpartitioning (ISP) mode for splitting coding blocks into sub-blocks. In some cases, whether ISP mode is enabled for a coding block is based on size constraints pertaining to data units (e.g., VPDUs, transform blocks, among others). For instance, based on a size constraint related to a VPDU, the ISP mode can be disabled for coding blocks crossing VPDU boundaries. In some cases, whether to enable ISP mode may be based on comparison of the width and/or height of the coding block to size thresholds corresponding to one or more maximum transform block sizes. In some cases, where the ISP mode is enabled for a coding block, a value of a flag used for defining a type of split, horizontal or vertical, for the coding block, can be inferred based on the width and/or height of the coding block relative to one or more thresholds.

700

OBTAIN AN ENCODED VIDEO BITSTREAM INCLUDING VIDEO DATA
702

DETERMINE THAT AN INTRA-SUBPARTITIONS SPLIT FLAG IS NOT PRESENT IN THE VIDEO BITSTREAM FOR A CURRENT BLOCK OF VIDEO DATA, THE INTRA-SUBPARTITIONS SPLIT FLAG SPECIFYING WHETHER A TYPE OF SPLIT FOR AN INTRA-SUBPARTITIONS MODE USED FOR THE CURRENT BLOCK IS HORIZONTAL OR VERTICAL
704

DETERMINE THAT AT LEAST ONE OF A WIDTH AND A HEIGHT OF THE CURRENT BLOCK IS GREATER THAN A SIZE THRESHOLD CORRESPONDING TO A MAXIMUM TRANSFORM BLOCK SIZE
706

DETERMINE A VALUE FOR THE INTRA-SUBPARTITIONS SPLIT FLAG FOR THE CURRENT BLOCK BASED ON WHETHER THE WIDTH OR THE HEIGHT OF THE CURRENT BLOCK IS GREATER THAN THE SIZE THRESHOLD
708