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(54) **SUB-BITSTREAM EXTRACTION**

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**ABSTRACT**

Systems, methods and apparatus for encoding, decoding or transcoding digital video are described. One example method of video processing includes performing a conversion between a video and a bitstream of the video, wherein the bitstream conforms to an order of a sub-bitstream extraction process that is defined by a rule that specifies (a) the sub-bitstream extraction process excludes an operation that removes all supplemental enhancement information (SEI) network abstraction layer (NAL) units, which satisfy a condition, from an output bitstream or (b) the order of the sub-bitstream extraction process includes replacing parameter sets with replacement parameter sets prior to removing, from an output bitstream, the SEI NAL units.

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Performing a conversion between a video and a bitstream of the video comprising multiple layers, the bitstream further comprising a plurality of supplemental enhancement information, SEI, messages associated with an access unit, AU, or a decoding unit, DU, of a particular output layer set, OLS, or a particular layer, the plurality of SEI messages, comprising a message type different from scalable nesting type, being based on a format rule, and the format rule specifying that each of the plurality of SEI messages has a same SEI payload content due to the plurality of SEI messages being associated with the AU or the DU of the particular OLS or the particular layer

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