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- (71) **Applicant: TENCENT AMERICA LLC [US/US];** 2747 Park Boulevard, Palo Alto, California 94306 (US).
- (72) **Inventors: LI, Xiang;** c/o TENCENT AMERICA LLC, 2747 Park Boulevard, Palo Alto, California 94306 (US). **ZHAO, Xin;** c/o TENCENT AMERICA LLC, 2747 Park Boulevard, Palo Alto, California 94306 (US). **DU, Yixin;** c/o TENCENT AMERICA LLC, 2747 Park Boulevard, Palo Alto, California 94306 (US). **ZHAO, Liang;** c/o TENCENT AMERICA LLC, 2747 Park Boulevard, Palo Alto, California 94306 (US). **LIU, Shan;** c/o TENCENT

AMERICA LLC, 2747 Park Boulevard, Palo Alto, California 94306 (US).

- (74) **Agent: MA, Johnny et al.;** Oblon, McClelland, Maier & Neustadt, L.L.P., 1940 Duke Street, Alexandria, Virginia 22314 (US).

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(54) **Title:** METHOD AND APPARATUS FOR CROSS-COMPONENT FILTERING

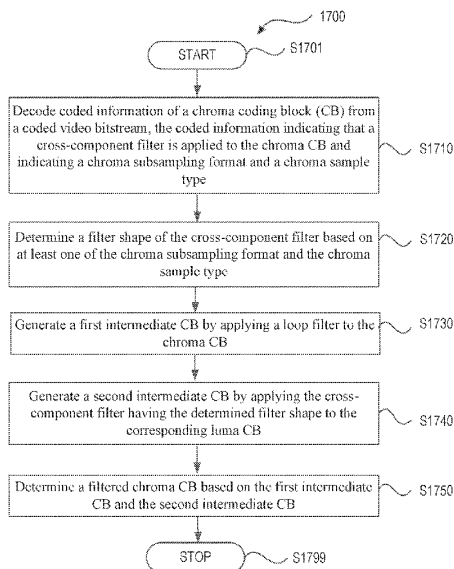


FIG. 17

(57) **Abstract:** Aspects of the disclosure provide a method and an apparatus including processing circuitry for video decoding. The processing circuitry decodes coded information of a chroma coding block (CB) from a coded video bitstream. The coded information indicates that a cross-component filter is applied to the chroma CB and indicates a chroma subsampling format and a chroma sample type. The processing circuitry determines a filter shape of the cross-component filter based on at least one of the chroma subsampling format and the chroma sample type. The processing circuitry generates a first intermediate CB by applying a loop filter to the chroma CB and generates a second intermediate CB by applying the cross-component filter having the determined filter shape to the corresponding luma CB. The processing circuitry determines a filtered chroma CB based on the first intermediate CB and the second intermediate CB.

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