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(54) Title: MOTION VECTOR RANGE DERIVATION FOR ENHANCED INTERPOLATION FILTER

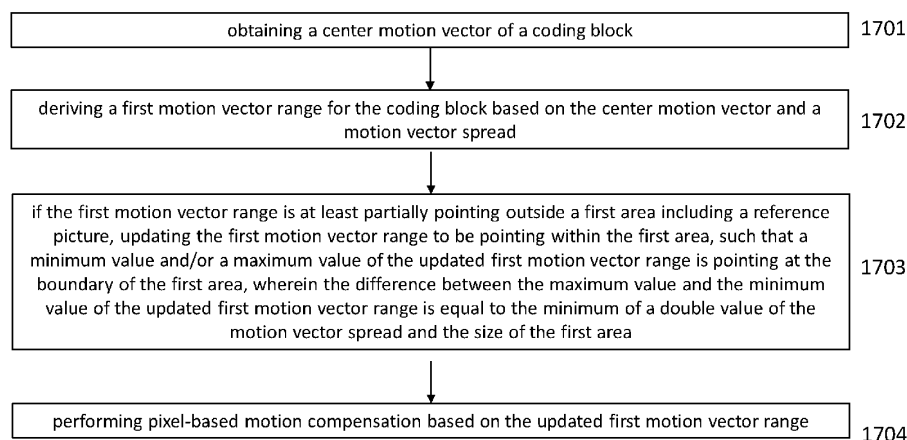


FIG. 17

(57) **Abstract:** The disclosure relates to a method for coding video data using an affine motion model that avoids a significant reduction of the motion vector range near the picture boundaries. The method comprises the steps of: obtaining a center motion vector, mv_center, of a coding block; deriving a first motion vector range for the coding block based on the center motion vector and a motion vector spread, wherein the motion vector spread depends on a size of the coding block; if the first motion vector range is at least partially pointing outside a first area including a reference picture, updating the first motion vector range to be pointing within the first area, such that a minimum value and/or a maximum value of the updated first motion vector range is pointing at the boundary of the first area, wherein the difference between the maximum value and the minimum value of the updated first motion vector range is equal to the minimum of a double value of the motion vector spread and the size of the first area; and performing pixel-based motion compensation based

[Continued on next page]

tion Building, Bantian, Longgang District, Shenzhen, Guangdong 518129 (CN). **IKONIN, Sergey Yurievich**; Huawei Administration Building, Bantian, Longgang District, Shenzhen, Guangdong 518129 (CN). **ALSHINA, Elena Alexandrovna**; Huawei Technologies Duesseldorf GmbH, Riesstr. 25, 80992 Munich (DE).

(74) **Agent: LAW FIRM "GORODISSKY & PARTNERS" LTD.**; B. Spasskaya Str., 25, bldg. 3, Moscow, 129090 (RU).

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