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(71) Applicant: SAMSUNG ELECTRONICS CO., LTD. [KR/KR]; 416, Maetan-dong, Paldal-gu, Suwon-shi, Kyungki-do 442-370 (KR).

(72) Inventors: SONG, Dong, Il; 6-1201, Imkwang Apt., Maetan 3-dong, Paldal-gu, Suwon-city, Kyungki-do 442-373 (KR). JEON, Jong, Gu; 196-102, Maetan 2-dong, Paldal-gu, Suwon-city, Kyungki-do 442-372 (KR). KIM, Yong, Je; 102-1208, Dongsin Apt., Junga-dong, Jangan-gu, Suwon-city, Kyungki-do 440-300 (KR).

(74) Agent: LEE, Keon, Joo; Mihwa Building, 110-2, Myongryun-dong, 4-Ga, Chongro-gu, Seoul 110-524 (KR).

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(54) Title: VIDEO TRANSMISSION APPARATUS EMPLOYING INTRA-FRAME-ONLY VIDEO COMPRESSION THAT IS MPEG-2 COMPATIBLE

(57) Abstract

Intraframe-only video compression encoding of every successive video frame is done the way intraframe video compression encoding is done on I anchor frames in MPEG-2, and each frame is identified as being intraframe video compression encoded similarly to the way it is done on I anchor frames in MPEG-2. The encoder for doing this is simpler than that for coding P frames and B frames as well as I frames, since there is no need for motion estimation circuitry. Using such an encoder in a digital camcorder reduces power drain on the battery and permits the weight and size of the camcorder to be reduced. Intraframe-only video compression facilitates editing video. In many systems in which video editing is done an MPEG-2 decoder is already available, so there is no additional cost for a decoder to decode the transport stream of I frames without intervening P or B frames. If an MPEG-2 decoder is not already available in a system, providing such a decoder is reasonable in cost, since the amount of hardware in an MPEG-2 decoder is considerably less than that in an MPEG-2 encoder.

