US 20230232033A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0232033 A1

Shiodera et al. (43) Pub. Date: Jul. 20, 2023

(54) IMAGE ENCODING AND DECODING METHOD WITH MERGE FLAG AND MOTION VECTORS

(71) Applicant: **KABUSHIKI KAISHA TOSHIBA**, Tokyo (JP)

(72) Inventors: **Taichiro Shiodera**, Tokyo (JP); **Akiyuki Tanizawa**, Kawasaki-shi (JP); **Tomoo Yamakage**, Yokohama-shi (JP); **Takeshi Chujoh**, Kawasaki-shi (JP)

(73) Assignee: **KABUSHIKI KAISHA TOSHIBA**, Tokyo (JP)

(21) Appl. No.: **18/189,364**

(22) Filed: **Mar. 24, 2023**

Related U.S. Application Data

(60) Continuation of application No. 17/406,738, filed on Aug. 19, 2021, now Pat. No. 11,647,219, which is a division of application No. 17/038,847, filed on Sep. 30, 2020, now Pat. No. 11,323,735, which is a continuation of application No. 16/665,103, filed on Oct. 28, 2019, now Pat. No. 10,841,606, which is a continuation of application No. 15/864,468, filed on Jan. 8, 2018, now Pat. No. 10,511,851, which is a continuation of application No. 14/021,357, filed on Sep. 9, 2013, now Pat. No. 9,900,594, which is a continuation of application No. PCT/JP2011/055504, filed on Mar. 9, 2011.

Publication Classification

(51) **Int. Cl.**
H04N 19/51 (2006.01)
H04N 19/426 (2006.01)

(52) **U.S. Cl.**
CPC ***H04N 19/51*** (2014.11); ***H04N 19/428*** (2014.11); *H04N 19/52* (2014.11)

(57) **ABSTRACT**

A method of dividing an input image signal into pixel blocks, and performing inter-prediction on the divided pixel blocks. This method includes selecting predicted motion information from a motion information buffer storing motion information in an encoded region, and predicting motion information of an encoding target block by using the predicted motion information. The method further includes acquiring representative motion information from a plurality of items of motion information in an encoded region in accordance with first information indicating a method of selecting the predicted motion information, thereby obtaining only the representative motion information.