



Espacenet

US2008170615A1 MOVING IMAGE DECODING DEVICE AND MOVING IMAGE DECODING METHOD

Applicants: MITSUBISHI ELECTRIC CORP [JP]

Inventors: SEKIGUCHI SHUNICHI [JP], MORIYA YOSHIMI [JP], SUGIMOTO KAZUO [JP], YAMADA YOSHIHISA [JP], ASAI KOHTARO [JP], MURAKAMI TOKUMICHI [JP], IDEHARA YUICHI [JP]

Classifications:

IPC

H04N7/50; H04N11/04; H04N19/105; H04N19/11; H04N19/12; H04N19/134; H04N19/136; H04N19/159; H04N19/196; H04N19/42; H04N19/423; H04N19/46; H04N19/50; H04N19/503; H04N19/51; H04N19/513; H04N19/523; H04N19/577; H04N19/593; H04N19/60; H04N19/61; H04N19/70; H04N19/80; H04N19/91;

CPC

H04N11/04 (KR); H04N19/11 (KR); H04N19/186 (EP,KR,US); H04N19/70 (EP,US); H04N19/82 (EP,BR,US); H04N19/186 (BR); H04N19/70 (BR);

Priorities: JP2007004651A 2007-01-12

Application: US92524807A 2007-10-26

Publication: US2008170615A1 2008-07-17

Published as: **BRPI0800010A; BRPI0800010B1; BRPI0800010B8; CA2614016A1; CA2614016C; CN101222644A; CN101222644B; CN101969566A; CN101969566B; EP1950971A2; EP1950971A3; EP1950971B1; HK1150287A1; JP2008172599A; JP5026092B2; KR100956478B1; KR101030638B1; KR20080066559A; KR20100030638A; KR20100036284A; RU2008101377A; RU2400941C1; RU2404537C2; US2008170615A1; US2008181304A1; US8369404B2**

MOVING IMAGE DECODING DEVICE AND MOVING IMAGE DECODING METHOD

Abstract

Encoding and decoding are uniformly carried out for a plurality of chroma formats. Based on a control signal for providing a chroma format type of an input moving image signal, in the case of a chroma format of 4:2:0 or 4:2:2, a first intra prediction mode deciding unit and a first intra prediction image generation unit are applied to a luminance component of the input moving image signal, and a second intra prediction mode deciding unit and a second intra prediction image generation unit are applied to a chrominance component. In the case of a chroma format of 4:4:4, the first intra prediction mode deciding unit and the first intra prediction image generation unit are applied to all color components to carry out encoding, and a variable length encoding unit multiplexes the control signal as encoding data to be applied to a moving image sequence unit on a bit stream.