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(72) Inventors; and
(54) Title: A METHOD AND AN APPARATUS FOR DECODING A VIDEO SIGNAL

(57) Abstract: The present invention relates to a video signal decoding method for adding an intra prediction mode as a sub-macroblock type to prediction of a macroblock in coding a video signal. The present invention includes obtaining a macroblock type, obtaining a sub-macroblock type when a macroblock includes a plurality of coded sub-macroblocks according to the macroblock type, obtaining flag information indicating a DC (discrete cosine) transform size, determining the DC transform size of the coded sub-macroblock based on the flag information, when the sub-macroblock is intra prediction coded based on the sub-macroblock type, determining a prediction size of the intra prediction coded sub-macroblock based on the determined DC transform size, obtaining prediction direction information from a block adjacent to the sub-macroblock based on the prediction size of the sub-macroblock, and obtaining a prediction value of the sub-macroblock based on the prediction direction information. Accordingly, the present invention is able to raise coding efficiency of video signal by adding an intra prediction mode as a sub-macroblock type in predicting a macroblock.
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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04N 7/24, G06K 9/36, G06K 9/46, H04N 11/04, H04N 7/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords Transform, DC, Macroblock, Prediction direction

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
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<th>Relevant to claim No</th>
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See patent family annex

Further documents are listed in the continuation of Box C

Date of the actual completion of the international search

18 MAY 2010 (18 05 2010)

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