

[ABSTRACT]

VIDEO ENCODING METHOD USING OFFSET ADJUSTMENTS
ACCORDING TO PIXEL CLASSIFICATION AND APPARATUS THEREFOR, VIDEO
DECODING METHOD AND APPARATUS THEREFOR

5 A video encoding method and apparatus and video decoding method and
apparatus to generate a restored image having a minimum error with respect to an
original image. The video decoding method includes: parsing offset merge
information indicating whether offset parameters of a current block and at least one
neighboring block from among blocks of video are identical to each other from a
10 received bitstream; restoring an offset type and offset values among the the offset
parameterof the current block based on the offset merge information; determining an
edge class or a pixel value band of a restored pixel based on an edge type or a pixel
value band type of the current block indicating the offset type; and determining an
offset value corresponding to the edge class or the pixel value band of the restored
15 pixel from the offset values and adjusting a pixel value of the restored pixel
according to the offset value.

Fig. 2