

MOVING IMAGE ENCODING DEVICE, MOVING IMAGE DECODING DEVICE,  
MOVING IMAGE ENCODING METHOD, AND MOVING IMAGE DECODING METHOD

ABSTRACT

5           When an intra-frame prediction process at a time of  
generating a prediction image is a horizontal one, an intra  
prediction unit adds a value proportional to a change in a  
horizontal direction of the luminance values of pixels adjacent  
to the top of each prediction block to the luminance value of  
10 a pixel adjacent to the left of the prediction block to determine  
a result of the addition as a predicted value of a prediction  
image, whereas when the intra-frame prediction process at the  
time of generating the prediction image is a vertical one, the  
intra prediction unit adds a value proportional to a change in  
15 a vertical direction of the luminance values of pixels adjacent  
to the left of the prediction block to the luminance value of  
the pixel adjacent to the top of the prediction block to  
determine the result of the addition as a predicted value of  
the prediction image.

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Fig. 1