

ABSTRACT

VIDEO PREDICTION ENCODING DEVICE, VIDEO PREDICTION ENCODING METHOD, VIDEO PREDICTION 5 DECODING DEVICE AND VIDEO PREDICTION DECODING METHOD

A decoding device includes decoding means for decoding
information of a direction of intra-picture prediction of a target block and
10 compression data of a residual signal, prediction signal generation means
for generating an intra-picture prediction signal using the information of
the direction and an previously reconstructed reference sample of an
adjacent block, residual signal restoration means for restoring a
reconstructed residual signal of the target block, and block storage means
15 for restoring and storing a pixel signal of the target block. The prediction
signal generation means derives reference samples from an previously
reconstructed block neighbouring the target block stored, selects two or
more key reference samples, performs an interpolation process between
the key reference samples for generating interpolated reference samples,
20 and generates the intra-picture prediction signal by extrapolating the
interpolated reference samples based on the direction of the intra-picture
prediction.

Fig. 3