REPLACEMENT SHEET
27 JUL 1999

METHOD FOR SUPPLEMENTING DIGITAL IMAGE WITH PICTURE ELEMENT, AND DIGITAL IMAGE ENCODER AND DECODER USING THE SAME

Abstract

The present invention provides a method of supplementing a digital picture with a shorter delay time and less calculations. The padding method is applied to a picture having a great motion, and results in producing a prediction signal with small errors. The present invention also provides an apparatus using the same method. To be more specific about the method, in a digital picture data including picture information indicating an object, a picture is resolved into a plurality of regions adjoining with each other, and each of the insignificant sample value of a region containing the boundary of the object shape is supplemented (padded) by the values obtained from transforming of the significant pixels near to the insignificant pixels.

Fig. 1