CLAIMS

1. An image decoding device comprising:

a decoder that decodes first information from encoded data, the first information indicating whether a filter parameter for a largest coding block to be decoded is same as that for another largest coding block which is adjacent to top or left of the largest coding block, and decodes second information indicating whether or not to carry out a filtering process on a coding block divided from the largest coding block; and

a filter that, when the second information indicates that the filtering process is not carried out on the coding block, and when the first information indicates that the filter parameter for the largest coding block to be decoded is the same as that for the another largest coding block, carries out the filtering process on the largest coding block excluding the coding block with the filter parameter for the another largest coding block, and generates a decoded image on which the filtering process is carried out.

2. An image decoding method comprising:

decoding first information from encoded data, the first information indicating whether a filter parameter for a largest coding block to be decoded is same as that for another largest coding block which is adjacent to top or left of the largest coding block;

decoding second information indicating whether or not to carry out a filtering process on a coding block divided from the largest coding block;

carrying out, when the second information indicates that the filtering process is not carried out on the coding block, and when the first information indicates that the filter parameter for the largest coding block to be decoded is the same as that for the another largest coding block, the filtering process on the largest coding block excluding the coding block with the filter parameter for the another largest coding block; and

generating a decoded image on which the filtering process is carried out.

3. An image encoding device comprising:

a coding parameter determinator that determines a largest coding block

in a picture;

a block divider that divides the picture by the largest coding block, and divides the largest coding block into coding blocks; and

a filter that carries out a filtering process on the largest coding block excluding one of the coding blocks on which the filtering process is not carried out, the filtering process being carried out with a filter parameter which is same as that for another largest coding block which is adjacent to top or left of the largest coding block,

an encoder encodes first information indicating whether the filter parameter for the largest coding block is the same as that for the another largest coding block which is adjacent to top or left of the largest coding block, and second information indicating whether or not to carry out the filtering process on the one of the coding blocks.

4. An image encoding method comprising:

determining a largest coding block in a picture;

dividing the picture by the largest coding block, and dividing the largest coding block into coding blocks; and

carrying out a filtering process on the largest coding block excluding one of the coding blocks on which the filtering process is not carried out, the filtering process being carried out with a filter parameter which is same as that for another largest coding block which is adjacent to top or left of the largest coding block,

encoding first information indicating whether the filter parameter for the largest coding block is the same as that for the another largest coding block which is adjacent to top or left of the largest coding block, and second information indicating whether or not to carry out the filtering process on the one of the coding blocks.

5. A coded data which is obtained by carrying out a filtering process on a picture and encoding, the coded data comprising:

first information indicating a size of a largest coding block divided from the picture:

second information indicating a size of a coding block divided from the largest

coding block;

third information indicating whether a filter parameter for the largest coding block is same as that for another largest coding block which is adjacent to top or left of the largest coding block; and

fourth information indicating whether or not to carry out the filtering process on the coding block divided from the largest coding block, wherein

the coded data has an image decoding device make execution, the execution comprising:

dividing the picture into the largest coding block by using the first information indicating the size of the largest coding block;

dividing the largest coding block into the coding block by using the second information indicating the size of the coding block;

carrying out, when the fourth information indicates that the filtering process is not carried out on the coding block, and when the third information indicates that the filter parameter for the largest coding block is the same as that for the another largest coding block, the filtering process on the largest coding block excluding the coding block with the filter parameter for the another largest coding block; and

generating a decoded image on which the filtering process is carried out.