~~[CLAIMS]~~ CLAIMS

~~[Claim 1]~~

1. A moving picture coding method for performing inter prediction coding on a coding target block included in a coding target picture, the moving picture coding method comprising:

coding the coding target block using a motion vector;

generating a plurality of motion vector predictors; and

coding the motion vector using one of the plurality of motion vector predictors generated in the generating,

wherein, in the generating, a replacement vector which replaces a temporal motion vector predictor is included in the plurality of motion vector predictors when it is impossible to obtain the temporal motion vector predictor from a block which is included in a coded picture different from the coding target picture and corresponds to the coding target block.

~~[Claim 2]~~

2. The moving picture coding method according to Claim 1,

wherein, in the generating, a motion vector having a motion quantity of 0 is included, as the replacement vector, in the plurality of motion vector predictors when obtainment of the temporal motion vector predictor from the coded picture is prohibited.

~~[Claim 3]~~

3. The moving picture coding method according to Claim 2,

wherein in the generating,

the number of pictures coded according to the moving picture coding method is counted, and

obtainment of the temporal motion vector predictor from the coded picture is prohibited when the coding target picture is coded, the coding target picture being a picture coded at time at which the number of coded pictures exceeds a predetermined value.

~~[Claim 4]~~

4. The moving picture coding method according to Claim 1,

wherein the moving picture coding method is a method of coding pictures each of which is in a base view or a dependent view included in a multi-view video, and further comprises generating a parallax vector corresponding to parallax between the base view and the dependent view, and

in the generating, the parallax vector is included, as the replacement vector, in the plurality of motion vector predictors when the coding target picture is in the dependent view and is a starting picture in a Group Of Pictures (GOP).

~~[Claim 5]~~

5. The moving picture coding method according to Claim 1,

wherein the moving picture coding method is a method of coding pictures each of which is in a base view or a dependent view included in a multi-view video, and further comprises generating a parallax vector corresponding to parallax between the base view and the dependent view, and

in the generating, the parallax vector is included, as the replacement vector, in the plurality of motion vector predictors when obtainment of the temporal motion vector predictor from the coded picture is prohibited.

~~[Claim 6]~~

6. The moving picture coding method according to Claim 4 or Claim 5,

wherein the parallax vector is calculated using a motion vector obtained when inter-view prediction is performed on each of blocks included in the picture in the dependent view, using the picture included in the base view and corresponding to the picture in the dependent view, and

in the generating, the parallax vector is included, as the replacement vector, in the plurality of motion vector predictors, the parallax vector being used when coding a starting picture in a GOP immediately before the GOP including the coding target picture.

~~[Claim 7]~~

7. The moving picture coding method according to Claim 4 or Claim 5,

wherein the parallax vector is calculated using a motion vector obtained when inter-view prediction is performed on each of blocks included in the dependent view, using the picture included in the base view and corresponding to the picture in the dependent view, and

in the generating, the parallax vector is included, as the replacement vector, in the plurality of motion vector predictors, the parallax vector being used when coding a picture coded immediately before the coded picture.

~~[Claim 8]~~

8. A moving picture decoding method for performing inter prediction decoding on a decoding target block included in a decoding target picture, the moving picture decoding method comprising:

decoding the decoding target block using a motion vector;

generating a plurality of motion vector predictors; and

decoding the motion vector using one of the plurality of motion vector predictors generated in the generating,

wherein, in the generating, a replacement vector which replaces a temporal motion vector predictor is included in the plurality of motion vector predictors when it is impossible to obtain the temporal motion vector predictor from a block which is included in a decoded picture different from the decoding target picture and corresponds to the decoding target block.

~~[Claim 9]~~

9. A moving picture coding and decoding apparatus comprising:

a moving picture coding unit configured to perform inter prediction coding on a coding target block included in a coding target picture; and

a moving picture decoding unit configured to perform inter

prediction decoding on a decoding target block generated by the moving picture coding unit,

the moving picture coding unit including:

an image encoder which encodes the coding target block using a motion vector;

a first motion vector predictor candidate generating unit configured to generate a plurality of motion vector predictors; and

a motion vector encoder which encodes the motion vector using one of the plurality of motion vector predictors generated by the first motion vector predictor candidate generating unit,

wherein the first motion vector predictor candidate generating unit is configured to include a replacement vector which replaces a temporal motion vector predictor in the plurality of motion vector predictors when it is impossible to obtain the temporal motion vector predictor from a block which is included in a coded picture different from the coding target picture and corresponds to the coding target block, and

the moving picture decoding unit including:

an image decoder which decodes the decoding target block using a motion vector;

a second motion vector predictor candidate generating unit configured to generate a plurality of motion vector predictors; and

a motion vector decoder which decodes the motion vector using one of the plurality of motion vector predictors generated by the second motion vector predictor candidate generating unit,

wherein the second motion vector predictor candidate generating unit is configured to include a replacement vector which replaces a temporal motion vector predictor in the plurality of motion vector predictors when it is impossible to obtain the temporal motion vector predictor from a block which is included in a decoded picture different from the decoding target picture and corresponds to the decoding target block.

~~[Claim 10]~~

~~A moving picture coding method for performing inter prediction~~

coding on a coding target block included in a coding target picture, the moving picture coding method comprising:

coding the coding target block using a motion vector;

generating a plurality of motion vector predictors; and

coding the motion vector using one of the plurality of motion vector predictors generated in the generating,

wherein in the generating: generating position information indicating which one of a reference picture list L0 for the coding target picture and a reference picture list L1 for the coding target picture is used to select a coded picture in the case of obtaining a temporal motion vector predictor from a block which is included in the coded picture different from the coding target picture and corresponds to the coding target block; and

not generating the position information in the case of not obtaining the temporal motion vector predictor from the block which is included in the coded picture different from the coding target picture and corresponds to the coding target block.

[Claim 11]

A moving picture coding apparatus which performs inter prediction coding on a coding target block included in a coding target picture, the moving picture coding apparatus comprising:

an image encoder which encodes the coding target block using a motion vector;

a motion vector predictor candidate generating unit configured to generate a plurality of motion vector predictors; and

a motion vector encoder which encodes the motion vector using one of the plurality of motion vector predictors generated by the motion vector predictor candidate generating unit,

wherein the motion vector predictor candidate generating unit is configured to generate position information indicating which one of a reference picture list L0 for the coding target picture and a reference picture list L1 for the coding target picture is used to select a coded picture in the case of obtaining a temporal motion vector predictor from a block which is included in the coded picture

different from the coding target picture and corresponds to the coding target block, and

the motion vector predictor candidate generating unit is configured not to generate the position information in the case of not obtaining the temporal motion vector predictor from the block which is included in the coded picture different from the coding target picture and corresponds to the coding target block.

[Claim 12]

A moving picture decoding method for performing inter prediction decoding on a decoding target block included in a decoding target picture, the moving picture decoding method comprising:

generating a plurality of motion vector predictors;

decoding the motion vector using one of the plurality of motion vector predictors generated in the generating; and

decoding the decoding target block using the motion vector decoded in the decoding the motion vector,

wherein in the generating: obtaining position information indicating which one of a reference picture list L0 for the decoding target picture and a reference picture list L1 for the decoding target picture is used to select a decoded picture and calculating the temporal motion vector predictor based on the position information, in the case of obtaining a temporal motion vector predictor from a block which is included in the decoded picture different from the decoding target picture and corresponds to the decoding target block; and

not obtaining the position information in the case of not obtaining the temporal motion vector predictor from the block which is included in the decoded picture different from the decoding target picture and corresponds to the decoding target block.

[Claim 13]

A moving picture decoding apparatus which performs inter prediction decoding on a decoding target block included in a

decoding target picture, the moving picture decoding apparatus comprising:

a motion vector predictor candidate generating unit configured to generate a plurality of motion vector predictors;

a motion vector decoder which decodes the motion vector using one of the plurality of motion vector predictors generated by the motion vector predictor candidate generating unit; and

an image decoder which decodes the decoding target block using the motion vector decoded by the motion vector decoder,

wherein the motion vector predictor candidate generating unit is configured to obtain position information indicating which one of a reference picture list L0 for the decoding target picture and a reference picture list L1 for the decoding target picture is used to select a decoded picture and calculating the temporal motion vector predictor based on the position information, in the case of obtaining a temporal motion vector predictor from a block which is included in the decoded picture different from the decoding target picture and corresponds to the decoding target block, and

the motion vector predictor candidate generating unit is configured not to obtain the position information in the case of not obtaining the temporal motion vector predictor from the block which is included in the decoded picture different from the decoding target picture and corresponds to the decoding target block.

[Claim 14]

A moving picture coding and decoding apparatus comprising a moving picture coding unit which performs inter prediction coding on a coding target block included in a coding target picture and a moving picture decoding unit which performs inter prediction decoding on a decoding target block included in a decoding target picture,

the moving picture coding unit including:

an image encoder which encodes the coding target block using a motion vector;

a first motion vector predictor candidate generating unit

configured to generate a plurality of motion vector predictors; and

a motion vector encoder which encodes the motion vector using one of the plurality of motion vector predictors generated by the first motion vector predictor candidate generating unit,

wherein the first motion vector predictor candidate generating unit is configured to generate position information indicating which one of a reference picture list L0 for the coding target picture and a reference picture list L1 for the coding target picture is used to select a coded picture in the case of obtaining a temporal motion vector predictor from a block which is included in the coded picture different from the coding target picture and corresponds to the coding target block, and

the first motion vector predictor candidate generating unit is configured not to generate the position information in the case of not obtaining the temporal motion vector predictor from the block which is included in the coded picture different from the coding target picture and corresponds to the coding target block, and

the moving picture decoding unit including:

a second motion vector predictor candidate generating unit configured to generate a plurality of motion vector predictors;

a motion vector decoder which decodes the motion vector using one of the plurality of motion vector predictors generated by the second motion vector predictor candidate generating unit; and

an image decoder which decodes the decoding target block using the motion vector decoded by the motion vector decoder,

wherein the second motion vector predictor candidate generating unit is configured to obtain position information indicating which one of a reference picture list L0 for the decoding target picture and a reference picture list L1 for the decoding target picture is used to select a decoded picture and calculating the temporal motion vector predictor based on the position information, in the case of obtaining a temporal motion vector predictor from a block which is included in the decoded picture different from the decoding target picture and corresponds to the decoding target block, and

~~the second motion vector predictor candidate generating unit is configured not to obtain the position information in the case of not obtaining the temporal motion vector predictor from the block which is included in the decoded picture different from the decoding target picture and corresponds to the decoding target block.~~