WHAT IS CLAIMED IS:

1. A method for coding video data, the method comprising:

coding information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

constructing a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

adding reference pictures from the plurality of reference picture subsets into a first set of entries in a reference picture list;

determining whether a number of entries in the reference picture list is equal to a maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-adding one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

coding the current picture based on the reference picture list.

2. The method of claim 1, wherein constructing the plurality of reference picture subsets comprises constructing at least a first reference picture subset, a second reference picture subset, and a third reference picture subset.

3. The method of claim 1, wherein constructing the plurality of reference picture subsets comprises:

constructing a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

constructing a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

constructing a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order.

4. The method of claim 3,

wherein adding reference pictures from the plurality of reference picture subsets comprises adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list, and

wherein determining whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list comprises determining whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list.

5. The method of claim 3,

wherein repeatedly re-adding the one or more reference pictures comprises identifying at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

6. The method of claim 1, wherein repeatedly re-adding the one or more reference pictures comprises adding reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

7. The method of claim 1,

wherein coding information comprises decoding, with a video decoder, the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

wherein constructing comprises constructing, with the video decoder, the plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

wherein adding comprises, adding, with the video decoder, reference pictures from the plurality of reference picture subsets into the first set of entries in a reference picture list;

wherein determining comprises determining, with the video decoder, whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-adding comprises repeatedly re-adding, with the video decoder, one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

wherein coding comprises decoding, with the video decoder, the current picture based on the reference picture list.

8. The method of claim 1,

wherein coding information comprises encoding, with a video encoder, the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting the current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

wherein constructing comprises constructing, with the video encoder, the plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

wherein adding comprises adding, with the video encoder, reference pictures from the plurality of reference picture subsets into the first set of entries in a reference picture list;

wherein determining comprises determining, with the video encoder, whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-adding comprises repeatedly re-adding, with the video encoder, the one or more reference pictures from the at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

wherein coding comprises encoding, with the video encoder, the current picture based on the reference picture list.

9. A device for coding video data, the device comprising a video coder configured to:

code information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

construct a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

add reference pictures from the plurality of reference picture subsets into a first set of entries in a reference picture list;

determine whether a number of entries in the reference picture list is equal to a maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-add one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

code the current picture based on the reference picture list.

10. The device of claim 9, wherein to construct the plurality of reference picture subsets, the video coder is configured to construct at least a first reference picture subset, a second reference picture subset, and a third reference picture subset.

11. The device of claim 9, wherein to construct the plurality of reference picture subsets, the video coder is configured to:

construct a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

construct a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

construct a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order.

12. The device of claim 11,

wherein to add reference pictures from the plurality of reference picture subsets, the video coder is configured to add reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list, and

wherein to determine whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list, the video coder is configured to determine whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list.

13. The device of claim 11,

wherein to repeatedly re-add the one or more reference pictures, the video coder is configured to identify at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

14. The device of claim 9, wherein to repeatedly re-add the one or more reference pictures, the video coder is configured to add reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

15. The device of claim 9, wherein the video coder comprises a video decoder, wherein the video decoder is configured to:

decode the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

construct the plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

add reference pictures from the plurality of reference picture subsets into the first set of entries in a reference picture list;

determine whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-add one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

decode the current picture based on the reference picture list.

16. The video coding device of claim 9, wherein the video coder comprises a video encoder, and wherein the video encoder is configured to:

encode the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting the current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

construct the plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

add reference pictures from the plurality of reference picture subsets into the first set of entries in a reference picture list;

determine whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-add the one or more reference pictures from the at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

encode the current picture based on the reference picture list.

17. The device of claim 9, wherein the device comprises one of:

a wireless communication device;

a microprocessor; and

an integrated circuit.

18. A computer-readable storage medium having stored thereon instructions that, when executed, cause a processor of a device for coding video data to:

code information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

construct a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

add reference pictures from the plurality of reference picture subsets into a first set of entries in a reference picture list;

determine whether a number of entries in the reference picture list is equal to a maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-add one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

code the current picture based on the reference picture list.

19. The computer-readable storage medium of claim 18, wherein the instructions that cause the processor to construct the plurality of reference picture subsets comprise instructions that cause the processor to construct at least a first reference picture subset, a second reference picture subset, and a third reference picture subset.

20. The computer-readable storage medium of claim 18, wherein the instructions that cause the processor to construct the plurality of reference picture subsets comprise instructions that cause the processor to:

construct a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

construct a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

construct a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order.

21. The computer-readable storage medium of claim 20,

wherein the instructions that cause the processor to add reference pictures from the plurality of reference picture subsets comprise instructions that cause the processor to add reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list, and

wherein the instructions that cause the processor to determine whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list comprise instructions that cause the processor to determine whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list.

22. The computer-readable storage medium of claim 20,

wherein the instructions that cause the processor to repeatedly re-add the one or more reference pictures comprise instructions that cause the processor to identify at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

23. The computer-readable storage medium of claim 18, wherein the instructions that cause the processor to repeatedly re-add the one or more reference pictures comprise instructions that cause the processor to add reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

24. A device for coding video data, the device comprising

means for coding information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

means for constructing a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set;

means for adding reference pictures from the plurality of reference picture subsets into a first set of entries in a reference picture list;

means for determining whether a number of entries in the reference picture list is equal to a maximum number of allowable entries in the reference picture list;

when the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, means for repeatedly re-adding one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

means for coding the current picture based on the reference picture list.

25. The device of claim 24, wherein the means for constructing the plurality of reference picture subsets comprises means for constructing at least a first reference picture subset, a second reference picture subset, and a third reference picture subset.

26. The device of claim 24, wherein the means for constructing the plurality of reference picture subsets comprises:

means for constructing a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

means for constructing a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

means for constructing a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order.

27. The device of claim 26,

wherein the means for adding reference pictures from the plurality of reference picture subsets comprises means for adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list, and

wherein the means for determining whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list comprises means for determining whether the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list.

28. The device of claim 26,

wherein the means for repeatedly re-adding the one or more reference pictures comprises means for identifying at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

29. The device of claim 24, wherein the means for repeatedly re-adding the one or more reference pictures comprises means for adding reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

CLAIMS

1. A method for coding video data, the method comprising:

coding information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

constructing a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set, wherein the plurality of reference picture subsets comprises:

a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into a first set of entries in a reference picture list;

determining that a number of entries in the reference picture list is not equal to a maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list;

in response to determining that the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-adding one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

coding the current picture based on the reference picture list.

2. The method of claim **1**,

wherein repeatedly re-adding the one or more reference pictures comprises identifying at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

3. The method of claim **1**, wherein repeatedly re-adding the one or more reference pictures comprises adding reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

4. The method of claim **1**,

wherein coding information comprises decoding the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order; and

wherein coding comprises decoding the current picture based on the reference picture list.

5. The method of claim **1**,

wherein coding information comprises encoding the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting the current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order; and

wherein coding comprises encoding the current picture based on the reference picture list.

6. A device for coding video data, the device comprising a video coder configured to:

code information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

construct a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set, wherein the plurality of reference picture subsets comprises:

a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

add reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into a first set of entries in a reference picture list;

determine that a number of entries in the reference picture list is not equal to a maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list;

in response to determining that the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-add one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference

picture list is equal to the maximum number of allowable entries in the reference picture list; and

code the current picture based on the reference picture list.

7. The device of claim **6**,

wherein to repeatedly re-add the one or more reference pictures, the video coder is configured to identify at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

8. The device of claim **6**, wherein to repeatedly re-add the one or more reference pictures, the video coder is configured to add reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

9. The device of claim **6**, wherein the video coder comprises a video decoder, wherein the video decoder is configured to:

decode the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order; and

decode the current picture based on the reference picture list.

10. The video coding device of claim **6**, wherein the video coder comprises a video encoder, and wherein the video encoder is configured to:

encode the information indicative of reference pictures that belong to the reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting the current pic-

ture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order; and

encode the current picture based on the reference picture list.

11. The device of claim **6**, wherein the device comprises one of:

a wireless communication device;

a microprocessor; and

an integrated circuit.

12. A non-transitory computer-readable storage medium having stored thereon instructions that, when executed, cause a processor of a device for coding video data to:

code information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

construct a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set, wherein the plurality of reference picture subsets comprises:

a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

a second reference picture subset that identifies short-term reference pictures that are prior to the current

picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

add reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into a first set of entries in a reference picture list;

determine that a number of entries in the reference picture list is not equal to a maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list;

in response to determining that the number of entries in the reference picture list is not equal to the maximum number of allowable entries in the reference picture list, repeatedly re-add one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

code the current picture based on the reference picture list.

13. The non-transitory computer-readable storage medium of claim **12**,

wherein the instructions that cause the processor to repeatedly re-add the one or more reference pictures comprise instructions that cause the processor to identify at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

14. The non-transitory computer-readable storage medium of claim **12**, wherein the instructions that cause the processor to repeatedly re-add the one or more reference pictures comprise instructions that cause the processor to add reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.

15. A device for coding video data, the device comprising

means for coding information indicative of reference pictures that belong to a reference picture set, wherein the reference picture set identifies the reference pictures that can potentially be used for inter-predicting a current picture and can potentially be used for inter-predicting one or more pictures following the current picture in decoding order;

means for constructing a plurality of reference picture subsets that each identifies zero or more of the reference pictures of the reference picture set, wherein the plurality of reference picture subsets comprises:

a first reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and prior to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

a second reference picture subset that identifies short-term reference pictures that are prior to the current picture in decoding order and subsequent to the current picture in output order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order; and

a third reference picture subset that identifies long-term reference pictures that are prior to the current picture in decoding order and that can potentially be used for inter-predicting the current picture and one or more of the one or more pictures following the current picture in decoding order;

means for adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into a first set of entries in a reference picture list;

means for determining that a number of entries in the reference picture list is not equal to a maximum number of allowable entries in the reference picture list after adding reference pictures from the first reference picture subset, the second reference picture subset, and the third reference picture subset into the first set of entries in the reference picture list;

means for repeatedly re-adding, in response to determining that the number of entries in the reference picture list is

not equal to the maximum number of allowable entries in the reference picture list, one or more reference pictures from at least one of the reference picture subsets into entries in the reference picture list that are subsequent to the first set of entries until the number of entries in the reference picture list is equal to the maximum number of allowable entries in the reference picture list; and

means for coding the current picture based on the reference picture list.

16. The device of claim **15**,

wherein the means for repeatedly re-adding the one or more reference pictures comprises means for identifying at least one reference picture of the first reference picture subset in more than one entry in the reference picture list.

17. The device of claim **15**, wherein the means for repeatedly re-adding the one or more reference pictures comprises means for adding reference pictures in entries of the reference picture list such that each entry of the reference picture list identifies one of the reference pictures, and such that at least two entries of the reference picture list identify a same reference picture of the reference pictures.