Claims

1. An encoder for encoding an audio signal, wherein the encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the encoder is configured to determine a spacing value, wherein the encoder is configured to select the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied based on the spacing value;

wherein the spacing value is a harmonic spacing value describing a spacing between harmonics.

2. The encoder according to claim 1, wherein the plurality of individual spectral coefficients or groups of spectral coefficients are separated by at least one spectral coefficient.

3. The encoder according to claim 2, wherein the predictive encoding is not applied to the at least one spectral coefficient by which the individual spectral coefficients or the groups of spectral coefficients are separated.

4. The encoder according to one of the claims 1 to 3, wherein the encoder is configured to predictively encode the plurality of individual spectral coefficients or the groups of spectral coefficients of the current frame, by coding prediction errors between a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients of the current frame and the plurality of individual spectral coefficients or groups of spectral coefficients of the current frame.

5. The encoder according to claim 4, wherein the encoder is configured to derive prediction coefficients from the spacing value, and wherein the encoder is configured to calculate the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using a corresponding plurality of individual spectral coefficients or corresponding groups

of spectral coefficients of at least two previous frames and using the derived prediction coefficients.

6. The encoder according to claim 4, wherein the encoder is configured to determine the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using corresponding quantized versions of the plurality of individual spectral coefficients or the groups of spectral coefficients of the previous frame.

7. The encoder according to claim 6, wherein the encoder is configured to derive prediction coefficients from the spacing value, and wherein the encoder is configured to calculate the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using corresponding quantized versions of the plurality of individual spectral coefficients or the groups of spectral coefficients of at least two previous frames and using the derived prediction coefficients.

8. The encoder according to one of the claims 5 or 7, wherein the encoder is configured to provide an encoded audio signal, the encoded audio signal not including the prediction coefficients or encoded versions thereof.

9. The encoder according to one of the claims 4 to 8, wherein the encoder is configured to provide an encoded audio signal, the encoded audio signal including quantized versions of the prediction errors instead of quantized versions of the plurality of individual spectral coefficients or of the groups of spectral coefficients for the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied.

10. The encoder according to claim 9, wherein the encoded audio signal includes quantized versions of the spectral coefficients to which predictive encoding is not applied, such that there is an alternation of spectral coefficients or groups of spectral coefficients for which quantized versions of the prediction errors are included in the encoded audio signal and spectral coefficients or groups of spectral coefficients for which quantized versions are provided without using predictive encoding.

11. The encoder according to one of the claims 1 to 10, wherein the encoder is configured to determine an instantaneous fundamental frequency of the audio signal and to derive the spacing value from the instantaneous fundamental frequency or a fraction or a multiple thereof.

12. The encoder according to one of the claims 1 to 11, wherein the encoder is configured to select individual spectral coefficients or groups of spectral coefficients spectrally arranged according to a harmonic grid defined by the spacing value for a predictive encoding.

13. The encoder according to one of claims 1 to 11, wherein the encoder is configured to select spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive encoding.

14. The encoder according to claim 13, wherein the encoder is configured to set a width of the range in dependence on the spacing value.

15. The encoder according to one of the claims 1 to 14, wherein the encoder is configured to select the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied such that there is a periodic alternation, periodic with a tolerance of +/-1 spectral coefficient, between the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied and the spectral coefficients or groups of spectral coefficients to which predictive encoding is not applied

16. The encoder according to claim 16, wherein the audio signal comprises at least two harmonic signal components, wherein the encoder is configured to selectively apply predictive encoding to those plurality of individual spectral coefficients or groups of spectral coefficients which represent the at least two harmonic signal components or spectral environments around the at least two harmonic signal components of the audio signal.

17. The encoder according to claim 16, wherein the encoder is configured to not apply predictive encoding to those plurality of individual spectral coefficients or groups of spectral coefficients which do not represent the at least two harmonic signal

components or spectral environments of the at least two harmonic signal components of the audio signal.

18. The encoder according to one of the claims 16 or 17, wherein the encoder is configured to not apply predictive encoding to those plurality of individual spectral coefficients or groups of spectral coefficients which belong to a non-tonal background noise between signal harmonics.

19. The encoder according to one of the claims 16 to 18, wherein the spacing value is a harmonic spacing value indicating a spectral spacing between the at least two harmonic signal components of the audio signal, the harmonic spacing value indicating those plurality of individual spectral coefficients or groups of spectral coefficients which represent the at least two harmonic signal components of the audio signal.

20. The encoder according to one of the claims 1 to 19, wherein the encoder is configured to provide an encoded audio signal, wherein the encoder is configured to include in the encoded audio signal the spacing value or an encoded version thereof.

21. The encoder according to one of the claims 1 to 20, wherein the spectral coefficients are spectral bins.

22. A decoder for decoding an encoded audio signal, wherein the decoder is configured to decode the encoded audio signal in a transform domain or filter-bank domain, wherein the decoder is configured to parse the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame, and wherein the decoder is configured to selectively apply predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the decoder is configured to obtain a spacing value, wherein the decoder is configured to select the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied based on the spacing value;

wherein the spacing value is a harmonic spacing value describing a spacing between harmonics.

23. The decoder according to claim 22, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients are separated by at least one encoded spectral coefficient.

24. The decoder according to claim 23, wherein the predictive decoding is not applied to the at least one spectral coefficient by which the individual spectral coefficients or the group of spectral coefficients are separated.

25. The decoder according to one of the claims 22 to 24, wherein the decoder is configured to entropy decode the encoded spectral coefficients, to obtain quantized prediction errors for the spectral coefficients to which predictive decoding is to be applied and quantized spectral coefficients for spectral coefficients to which predictive decoding is not to be applied; and

wherein the decoder is configured to apply the quantized prediction errors to a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients, to obtain, for the current frame, decoded spectral coefficients associated with the encoded spectral coefficients to which predictive decoding is applied.

26. The decoder according to claim 25, wherein the decoder is configured to determine the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame based on a corresponding plurality of the individual encoded spectral coefficients or groups of encoded spectral coefficients of the previous frame.

27. The decoder according to claim 26, wherein the decoder is configured to derive prediction coefficients from the spacing value, and wherein the decoder is configured to calculate the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using a corresponding plurality of previously decoded individual spectral coefficients or groups of previously decoded spectral coefficients of at least two previous frames and using the derived prediction coefficients.

28. The decoder according to one of the claims 22 to 27, wherein the decoder is configured to decode the encoded audio signal in order to obtain quantized prediction errors instead of a plurality of individual quantized spectral coefficients or groups of quantized spectral coefficients for the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied.

29. The decoder according to claim 28, wherein the decoder is configured to decode the encoded audio signal in order to obtain quantized spectral coefficients for encoded spectral coefficients to which predictive decoding is not applied, such that there is an alternation of encoded spectral coefficients or groups of encoded spectral coefficients for which quantized prediction errors are obtained and encoded spectral coefficients or groups of encoded spectral coefficients for which quantized spectral coefficients are obtained.

30. The decoder according to one of the claims 22 to 29, wherein the decoder is configured to select individual spectral coefficients or groups of spectral coefficients spectrally arranged according to a harmonic grid defined by the spacing value for a predictive decoding.

31. The decoder according to one of claims 22 to 30, wherein the decoder is configured to select spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive decoding.

32. The decoder according to claim 31, wherein the decoder is configured to set a width of the range in dependence on the spacing value.

33. The decoder according to one of the claims 22 to 32, wherein the encoded audio signal comprises the spacing value or an encoded version thereof, wherein the decoder is configured to extract the spacing value or the encoded version thereof from the encoded audio signal to obtain the spacing value.

34. The decoder according to one of the claims 22 to 32, wherein the decoder is configured to determine the spacing value.

35. The decoder according to claim 34, wherein the decoder is configured to determine an instantaneous fundamental frequency and to derive the spacing value from the instantaneous fundamental frequency or a fraction or a multiple thereof.

36. The decoder according to one of the claims 22 to 35, wherein the audio signal represented by the encoded audio signal comprises at least two harmonic signal components, wherein the decoder is configured to selectively apply predictive decoding to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which represent the at least two harmonic signal components or spectral environments around the at least two harmonic signal components of the audio signal.

37. The decoder according to claim 36, wherein the decoder is configured to identify the at least two harmonic signal components, and to selectively apply predictive decoding to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which are associated with the identified harmonic signal components.

38. The decoder according to claim 36, wherein the encoded audio signal comprises the spacing value or an encoded version thereof, wherein the spacing value identifies the at least two harmonic signal components, wherein the decoder is configured to selectively apply predictive decoding to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which are associated with the identified harmonic signal components.

39. The decoder according to one of the claim 36 to 38, wherein the decoder is configured to not apply predictive decoding to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which do not represent the at least two harmonic signal components or spectral environments of the at least two harmonic signal components of the audio signal.

40. The decoder according to one of the claims 36 to 39, wherein the decoder is configured to not apply predictive decoding to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which belong to a non-tonal background noise between signal harmonics of the audio signal.

41. The decoder according to one of the claims 22 to 40, wherein the encoded audio signal includes the spacing value or an encoded version thereof, wherein the spacing value is a harmonic spacing value, the harmonic spacing value indicating those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which represent at least two harmonic signal components of the audio signal.

42. The decoder according to one of the claims 22 to 41, wherein the spectral coefficients are spectral bins.

43. An encoder for encoding an audio signal, wherein the encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the encoder is configured to determine a spacing value, wherein the encoder is configured to select the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied based on the spacing value;

wherein the encoder is configured to predictively encode the plurality of individual spectral coefficients or the groups of spectral coefficients of the current frame, by coding prediction errors between a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients of the current frame and the plurality of individual spectral coefficients or groups of spectral coefficients of the current frame;

wherein the encoder is configured to derive prediction coefficients from the spacing value, and wherein the encoder is configured to calculate the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using a corresponding plurality of individual spectral coefficients or corresponding groups of spectral coefficients of at least two previous frames and using the derived prediction coefficients; and

wherein the encoder is configured to select spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive encoding.

44. An encoder for encoding an audio signal, wherein the encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the encoder is configured to determine a spacing value, wherein the encoder is configured to select the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied based on the spacing value;

wherein the encoder is configured to predictively encode the plurality of individual spectral coefficients or the groups of spectral coefficients of the current frame, by coding prediction errors between a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients of the current frame and the plurality of individual spectral coefficients or groups of spectral coefficients of the current frame;

wherein the encoder is configured to determine the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using corresponding quantized versions of the plurality of individual spectral coefficients or the groups of spectral coefficients of the previous frame;

wherein the encoder is configured to derive prediction coefficients from the spacing value, and wherein the encoder is configured to calculate the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using corresponding quantized versions of the plurality of individual spectral coefficients or the groups of spectral coefficients of at least two previous frames and using the derived prediction coefficients; and

wherein the encoder is configured to select spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive encoding.

45. An encoder for encoding an audio signal, wherein the encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the encoder is configured to determine a spacing value, wherein the encoder is configured to select the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied based on the spacing value;

wherein the encoder is configured to determine an instantaneous fundamental frequency of the audio signal and to derive the spacing value from the instantaneous fundamental frequency or a fraction or a multiple thereof.

46. An encoder for encoding an audio signal, wherein the encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the encoder is configured to determine a spacing value, wherein the encoder is configured to select the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied based on the spacing value;

wherein the encoder is configured to select individual spectral coefficients or groups of spectral coefficients spectrally arranged according to a harmonic grid defined by the spacing value for a predictive encoding.

47. An encoder for encoding an audio signal, wherein the encoder is configured to encode the audio signal in a transform domain or filter-bank domain, wherein the encoder is configured to determine spectral coefficients of the audio signal for a current frame and at least one previous frame, wherein the encoder is configured to selectively apply predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the encoder is configured to determine a spacing value, wherein the encoder is configured to select the plurality

of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied based on the spacing value;

wherein the audio signal comprises at least two harmonic signal components, wherein the encoder is configured to apply predictive encoding only to those plurality of individual spectral coefficients or groups of spectral coefficients which represent the at least two harmonic signal components or spectral environments around the at least two harmonic signal components of the audio signal.

48. A decoder for decoding an encoded audio signal, wherein the decoder is configured to decode the encoded audio signal in a transform domain or filter-bank domain, wherein the decoder is configured to parse the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame, and wherein the decoder is configured to selectively apply predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the decoder is configured to obtain a spacing value, wherein the decoder is configured to select the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied based on the spacing value;

wherein the decoder is configured to entropy decode the encoded spectral coefficients, to obtain quantized prediction errors for the spectral coefficients to which predictive decoding is to be applied and quantized spectral coefficients for spectral coefficients to which predictive decoding is not to be applied;

wherein the decoder is configured to apply the quantized prediction errors to a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients, to obtain, for the current frame, decoded spectral coefficients associated with the encoded spectral coefficients to which predictive decoding is applied;

wherein the decoder is configured to determine the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame based on a corresponding plurality of the individual encoded spectral coefficients or groups of encoded spectral coefficients of the previous frame;

wherein the decoder is configured to derive prediction coefficients from the spacing value, and wherein the decoder is configured to calculate the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using a corresponding plurality of previously decoded individual spectral coefficients or groups of previously decoded spectral coefficients of at least two previous frames and using the derived prediction coefficients;

wherein the decoder is configured to select spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive decoding.

49. A decoder for decoding an encoded audio signal, wherein the decoder is configured to decode the encoded audio signal in a transform domain or filter-bank domain, wherein the decoder is configured to parse the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame, and wherein the decoder is configured to selectively apply predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the decoder is configured to obtain a spacing value, wherein the decoder is configured to select the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied based on the spacing value;

wherein the decoder is configured to select individual spectral coefficients or groups of spectral coefficients spectrally arranged according to a harmonic grid defined by the spacing value for a predictive decoding.

50. A decoder for decoding an encoded audio signal, wherein the decoder is configured to decode the encoded audio signal in a transform domain or filter-bank domain, wherein the decoder is configured to parse the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame, and wherein the decoder is configured to selectively apply predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the decoder is configured to obtain a spacing value, wherein the decoder is configured to select the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied based on the spacing value;

wherein the decoder is configured to determine the spacing value; and

wherein the decoder is configured to determine an instantaneous fundamental frequency and to derive the spacing value from the instantaneous fundamental frequency or a fraction or a multiple thereof.

51. A decoder for decoding an encoded audio signal, wherein the decoder is configured to decode the encoded audio signal in a transform domain or filter-bank domain, wherein the decoder is configured to parse the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame, and wherein the decoder is configured to selectively apply predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the decoder is configured to obtain a spacing value, wherein the decoder is configured to select the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied based on the spacing value;

wherein the audio signal represented by the encoded audio signal comprises at least two harmonic signal components, wherein the decoder is configured to apply predictive decoding only to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which represent the at least two harmonic signal components or spectral environments around the at least two harmonic signal components of the audio signal.

52. A decoder for decoding an encoded audio signal, wherein the decoder is configured to decode the encoded audio signal in a transform domain or filter-bank domain, wherein the decoder is configured to parse the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame, and wherein the decoder is configured to selectively apply predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the decoder is configured to obtain a spacing value, wherein the decoder is configured to select the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied based on the spacing value;

wherein the encoded audio signal includes the spacing value or an encoded version thereof, wherein the spacing value is a harmonic spacing value describing a spacing between harmonics, the harmonic spacing value indicating those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which represent at least two harmonic signal components of the audio signal.

53. Method for encoding an audio signal in a transform domain or filter-bank domain, the method comprising:

determining spectral coefficients of the audio signal for a current frame and at least one previous frame;

determining a spacing value; and

selectively applying predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied are selected based on the spacing value;

wherein the spacing value is a harmonic spacing value describing a spacing between harmonics.

54. Method for encoding an audio signal in a transform domain or filter-bank domain, the method comprising:

determining spectral coefficients of the audio signal for a current frame and at least one previous frame;

determining a spacing value;

selectively applying predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied are selected based on the spacing value, wherein the plurality of

individual spectral coefficients or the groups of spectral coefficients of the current frame are predictively encoded, by coding prediction errors between a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients of the current frame and the plurality of individual spectral coefficients or groups of spectral coefficients of the current frame;

deriving prediction coefficients from the spacing value;

calculating the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using a corresponding plurality of individual spectral coefficients or corresponding groups of spectral coefficients of at least two previous frames and using the derived prediction coefficients; and

selecting spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive encoding.

55. Method for encoding an audio signal in a transform domain or filter-bank domain, the method comprising:

determining spectral coefficients of the audio signal for a current frame and at least one previous frame;

determining a spacing value;

selectively applying predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied are selected based on the spacing value;

predictively encoding the plurality of individual spectral coefficients or the groups of spectral coefficients of the current frame, by coding prediction errors between a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients of the current frame and the plurality of individual spectral coefficients or groups of spectral coefficients of the current frame;

determining the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using corresponding quantized versions of the plurality of individual spectral coefficients or the groups of spectral coefficients of the previous frame;

deriving prediction coefficients from the spacing value;

calculating the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using corresponding quantized versions of the plurality of individual spectral coefficients or the groups of spectral coefficients of at least two previous frames and using the derived prediction coefficients;

selecting spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive encoding.

56. Method for encoding an audio signal in a transform domain or filter-bank domain, the method comprising:

determining spectral coefficients of the audio signal for a current frame and at least one previous frame;

determining a spacing value;

selectively applying predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied are selected based on the spacing value;

determining an instantaneous fundamental frequency of the audio signal;

deriving the spacing value from the instantaneous fundamental frequency or a fraction or a multiple thereof.

57. Method for encoding an audio signal in a transform domain or filter-bank domain, the method comprising:

determining spectral coefficients of the audio signal for a current frame and at least one previous frame;

determining a spacing value;

selectively applying predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied are selected based on the spacing value; and

selecting individual spectral coefficients or groups of spectral coefficients spectrally arranged according to a harmonic grid defined by the spacing value for a predictive encoding.

58. Method for encoding an audio signal in a transform domain or filter-bank domain, the method comprising:

determining spectral coefficients of the audio signal for a current frame and at least one previous frame;

determining a spacing value;

selectively applying predictive encoding to a plurality of individual spectral coefficients or groups of spectral coefficients, wherein the plurality of individual spectral coefficients or groups of spectral coefficients to which predictive encoding is applied are selected based on the spacing value;

wherein the audio signal comprises at least two harmonic signal components;

applying predictive encoding only to those plurality of individual spectral coefficients or groups of spectral coefficients which represent the at least two harmonic signal components or spectral environments around the at least two harmonic signal components of the audio signal.

59. Method for decoding an encoded audio signal in a transform domain or filter-bank domain, the method comprising:

parsing the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame;

obtaining a spacing value; and

selectively applying predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied are selected based on the spacing value;

wherein the spacing value is a harmonic spacing value describing a spacing between harmonics.

60. Method for decoding an encoded audio signal in a transform domain or filter-bank domain, the method comprising:

parsing the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame;

obtaining a spacing value; and

selectively applying predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied are selected based on the spacing value;

entropy decoding the encoded spectral coefficients, to obtain quantized prediction errors for the spectral coefficients to which predictive decoding is to be applied and quantized spectral coefficients for spectral coefficients to which predictive decoding is not to be applied;

applying the quantized prediction errors to a plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients, to obtain, for the current frame, decoded spectral coefficients associated with the encoded spectral coefficients to which predictive decoding is applied;

determining the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame based on a corresponding plurality of the individual encoded spectral coefficients or groups of encoded spectral coefficients of the previous frame:

deriving prediction coefficients from the spacing value;

calculating the plurality of predicted individual spectral coefficients or groups of predicted spectral coefficients for the current frame using a corresponding plurality of previously decoded individual spectral coefficients or groups of previously decoded spectral coefficients of at least two previous frames and using the derived prediction coefficients; and

selecting spectral coefficients, spectral indices of which are equal to or lie within a range around a plurality of spectral indices derived on the basis of the spacing value, for a predictive decoding.

61. Method for decoding an encoded audio signal in a transform domain or filter-bank domain, the method comprising:

parsing the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame;

obtaining a spacing value; and

selectively applying predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied are selected based on the spacing value;

selecting individual spectral coefficients or groups of spectral coefficients spectrally arranged according to a harmonic grid defined by the spacing value for a predictive decoding.

62. Method for decoding an encoded audio signal in a transform domain or filter-bank domain, the method comprising:

parsing the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame;

obtaining a spacing value; and

selectively applying predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied are selected based on the spacing value;

determining the spacing value;

determining an instantaneous fundamental frequency; and

deriving the spacing value from the instantaneous fundamental frequency or a fraction or a multiple thereof.

63. Method for decoding an encoded audio signal in a transform domain or filter-bank domain, the method comprising:

parsing the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame;

obtaining a spacing value; and

selectively applying predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied are selected based on the spacing value;

wherein the audio signal represented by the encoded audio signal comprises at least two harmonic signal components;

applying predictive decoding only to those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which represent the at least two harmonic signal components or spectral environments around the at least two harmonic signal components of the audio signal.

64. Method for decoding an encoded audio signal in a transform domain or filter-bank domain, the method comprising:

parsing the encoded audio signal to obtain encoded spectral coefficients of the audio signal for a current frame and at least one previous frame;

obtaining a spacing value; and

selectively applying predictive decoding to a plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients, wherein the plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients to which predictive decoding is applied are selected based on the spacing value;

wherein the encoded audio signal includes the spacing value or an encoded version thereof, wherein the spacing value is a harmonic spacing value describing a spacing between harmonics, the harmonic spacing value indicating those plurality of individual encoded spectral coefficients or groups of encoded spectral coefficients which represent at least two harmonic signal components of the audio signal.

65. Computer program for performing a method according to one of the claims 53 to 64.