

**Decoder for Generating a Frequency Enhanced Audio Signal, Method of Decoding,
Encoder for Generating an Encoded Signal and Method of Encoding Using
Compact Selection Side information**

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Abstract

A decoder for generating a frequency enhanced audio signal, comprises: a feature extractor for extracting a feature from a core signal; a side information extractor for
10 extracting a selection side information associated with the core signal; a parameter generator for generating a parametric representation for estimating a spectral range of the frequency enhanced audio signal not defined by the core signal, wherein the parameter generator is configured to provide a number of parametric representation alternatives in response to the feature, and wherein the parameter generator is configured to select one
15 of the parametric representation alternatives as the parametric representation in response to the selection side information; and a signal estimator for estimating the frequency enhanced audio signal using the parametric representation selected.

20 Figure 1