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(54) **BACKWARD-COMPATIBLE INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION
TECHNIQUES FOR AUDIO SIGNALS**

(57) A method for decoding an encoded audio bitstream is disclosed. The method includes receiving the encoded audio bitstream and decoding the audio data to generate a decoded lowband audio signal. The method further includes extracting high frequency reconstruction metadata and filtering the decoded lowband audio signal with an analysis filterbank to generate a filtered lowband

audio signal. The method also includes extracting a flag indicating whether either spectral translation or harmonic transposition is to be performed on the audio data and regenerating a highband portion of the audio signal using the filtered lowband audio signal and the high frequency reconstruction metadata in accordance with the flag.

EP 4 550 315 A3



EUROPEAN SEARCH REPORT

Application Number

EP 25 16 4868

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 April 2025	Examiner Müller, Achim
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EP 25 16 4868

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