



(11) **EP 4 303 869 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
20.03.2024 Bulletin 2024/12

(51) International Patent Classification (IPC):
G10L 21/038 ^(2013.01) **G10L 19/00** ^(2013.01)
G10L 19/18 ^(2013.01)

(43) Date of publication A2:
10.01.2024 Bulletin 2024/02

(52) Cooperative Patent Classification (CPC):
G10L 21/038; G10L 19/00; G10L 19/18

(21) Application number: **23210523.9**

(22) Date of filing: **28.01.2019**

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**

(30) Priority: **26.01.2018 EP 18153683**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
22189216.9 / 4 120 261
22181854.5 / 4 099 325
21164481.0 / 3 872 809
19153875.0 / 3 518 233

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

(57) A method for decoding an encoded audio bit-stream 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.

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		7 February 2024	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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