

(19)



(11)

**EP 4 550 316 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**28.05.2025 Bulletin 2025/22**

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

(43) Date of publication A2:  
**07.05.2025 Bulletin 2025/19**

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

(21) Application number: **25165036.2**

(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**

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

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**23210525.4 / 4 303 871**  
**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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Application Number

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A	<p>WO 2016/149015 A1 (DOLBY LABORATORIES LICENSING CORP [US]; DOLBY INT AB [NL]) 22 September 2016 (2016-09-22)</p> <p>* page 10, line 22 - page 11, line 13 * * page 13, line 19 - page 15, line 14 * * figures 1, 3 * * page 7, lines 4-10 * * page 20, line 27 - line 28 * * page 24, line 21 - page 25, line 2 * * page 20, line 21 - line 26 *</p> <p>-----</p>	1-7	<p>INV. G10L21/038 G10L19/00</p> <p>ADD. G10L19/18</p>
A	<p>ANONYMOUS: "Study on ISO/IEC 23003-3:201x/DIS of Unified Speech and Audio Coding", 96. MPEG MEETING;21-3-2011 - 25-3-2011; GENEVA; (MOTION PICTURE EXPERT GROUP OR ISO/IEC JTC1/SC29/WG11),, no. N12013, 22 April 2011 (2011-04-22), XP030018506, * figure 1 * * section 7.5 *</p> <p>-----</p>	1-7	<p>TECHNICAL FIELDS SEARCHED (IPC)</p>
A	<p>ANONYMOUS: "ISO/IEC 14496-3:200x, Fourth Edition, part 1", 82. MPEG MEETING;22-10-2007 - 26-10-2007; SHENZHEN; (MOTION PICTURE EXPERT GROUP OR ISO/IEC JTC1/SC29/WG11),, 15 May 2009 (2009-05-15), XP030017004, * 1.6.5.1.2 *</p> <p>-----</p>	1-7	G10L
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		17 April 2025	Müller, Achim
CATEGORY OF CITED DOCUMENTS			
<p>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</p>		<p>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 ..... &amp; : member of the same patent family, corresponding document</p>	

EPO FORM 1503 03.82 (P04C01)

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