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(72) Inventors:
• **KJOERLING, Kristofer**
113 30 Stockholm (SE)
• **VILLEMOES, Lars**
113 30 Stockholm (SE)
• **PURNHAGEN, Heiko**
113 30 Stockholm (SE)
• **EKSTRAND, Per**
113 30 Stockholm (SE)

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(74) Representative: **AWA Sweden AB**
Box 5117
200 71 Malmö (SE)

(71) Applicant: **Dolby International AB**
Dublin, D02 VK60 (IE)

(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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A	<p>WO 2016/149015 A1 (DOLBY LABORATORIES LICENSING CORP [US]; DOLBY INT AB [NL]) 22 September 2016 (2016-09-22) * 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
<p>The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
Munich		7 February 2024	Müller, Achim
<p>CATEGORY OF CITED DOCUMENTS</p> <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</p> <p>..... & : member of the same patent family, corresponding document</p>			

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