

Title (en)  
BACKWARD-COMPATIBLE INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES FOR AUDIO SIGNALS

Title (de)  
RÜCKWÄRTSKOMPATIBLE INTEGRATION VON HOCHFREQUENZREKONSTRUKTIONSVERFAHREN FÜR AUDIOSIGNALE

Title (fr)  
INTÉGRATION RÉTROCOMPATIBLE DE TECHNIQUES DE RECONSTRUCTION HAUTE FRÉQUENCE POUR SIGNAUX AUDIO

Publication  
**EP 4303869 A3 20240320 (EN)**

Application  
**EP 23210523 A 20190128**

Priority  
• EP 22189216 A 20190128  
• EP 22181854 A 20190128  
• EP 21164481 A 20190128  
• EP 19153875 A 20190128  
• EP 18153683 A 20180126

Abstract (en)  
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.

IPC 8 full level  
**G10L 21/038** (2013.01); **G10L 19/00** (2013.01); **G10L 19/18** (2013.01)

CPC (source: EP)  
**G10L 19/00** (2013.01); **G10L 21/038** (2013.01); **G10L 19/18** (2013.01)

Citation (search report)  
• [A] WO 2016149015 A1 20160922 - DOLBY LABORATORIES LICENSING CORP [US], et al  
• [A] 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  
• [A] 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

Designated contracting state (EPC)  
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

DOCDB simple family (publication)  
**EP 3518233 A1 20190731; EP 3518233 B1 20210407**; DK 3518233 T3 20210510; DK 3872809 T3 20220822; DK 4099325 T3 20230619; DK 4120261 T3 20240122; EP 3872809 A1 20210901; EP 3872809 B1 20220727; EP 4099325 A1 20221207; EP 4099325 B1 20230517; EP 4120261 A1 20230118; EP 4120261 B1 20231129; EP 4303869 A2 20240110; EP 4303869 A3 20240320; EP 4303870 A2 20240110; EP 4303870 A3 20240320; EP 4303871 A2 20240110; EP 4303871 A3 20240320; ES 2871872 T3 20211102; ES 2924955 T3 20221011; ES 2948839 T3 20230920; ES 2969225 T3 20240517; FI 4099325 T3 20230613; FI 4120261 T3 20240112; HU E054531 T2 20210928; HU E059669 T2 20221228; HU E062211 T2 20231028; HU E065166 T2 20240528; PL 3518233 T3 20210816; PL 3872809 T3 20220926; PL 4099325 T3 20230814; PL 4120261 T3 20240325

DOCDB simple family (application)  
**EP 19153875 A 20190128**; DK 19153875 T 20190128; DK 21164481 T 20190128; DK 22181854 T 20190128; DK 22189216 T 20190128; EP 21164481 A 20190128; EP 22181854 A 20190128; EP 22189216 A 20190128; EP 23210523 A 20190128; EP 23210524 A 20190128; EP 23210525 A 20190128; ES 19153875 T 20190128; ES 21164481 T 20190128; ES 22181854 T 20190128; ES 22189216 T 20190128; FI 22181854 T 20190128; FI 22189216 T 20190128; HU E19153875 A 20190128; HU E21164481 A 20190128; HU E22181854 A 20190128; HU E22189216 A 20190128; PL 19153875 T 20190128; PL 21164481 T 20190128; PL 22181854 T 20190128; PL 22189216 T 20190128