

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局

(43) 国际公布日
2014 年 7 月 24 日 (24.07.2014)



(10) 国际公布号
WO 2014/110895 A1

- (51) 国际专利分类号:
G10L 19/24 (2013.01) G10L 21/04 (2013.01)
- (21) 国际申请号: PCT/CN2013/080061
- (22) 国际申请日: 2013 年 7 月 25 日 (25.07.2013)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
201310014342.4 2013 年 1 月 15 日 (15.01.2013) CN
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- (84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO,

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(54) Title: ENCODING METHOD, DECODING METHOD, ENCODING DEVICE, AND DECODING DEVICE

(54) 发明名称: 编码方法、解码方法、编码装置和解码装置

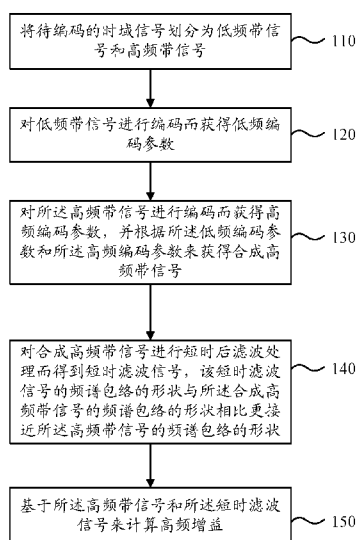


图1 / FIG.1

- 110 Divide time domain signals to be encoded into low frequency band signals and high frequency band signals
- 120 Encode the low frequency band signals to obtain a low frequency encoding parameter
- 130 Encode the high frequency band signals to obtain a high frequency encoding parameter, and obtain synthesized high frequency band signals according to the low frequency encoding parameter and the high frequency encoding parameter
- 140 Perform short-time post-filtering processing on the synthesized high frequency band signals to obtain short-time filtered signals, wherein the shape of spectrum envelope of the short-time filtered signals is closer to the shape of spectrum envelope of the high frequency band signals than the shape of spectrum envelope of the synthesized high frequency band signals
- 150 Calculate high frequency gains based on the high frequency band signals and the short-time filtered signals

(57) Abstract: Embodiments of the present invention provide an encoding method, a decoding method, an encoding device, a decoding device, a transmitter, a receiver, and a communication system. The encoding method comprises: dividing time domain signals to be encoded into low frequency band signals and high frequency band signals; encoding the low frequency band signals to obtain a low frequency encoding parameter; encoding the high frequency band signals to obtain a high frequency encoding parameter, and obtaining synthesized high frequency band signals according to the low frequency encoding parameter and the high frequency encoding parameter; performing short-time post-filtering processing on the synthesized high frequency band signals to obtain short-time filtered signals, wherein the shape of spectrum envelope of the short-time filtered signals is closer to the shape of spectrum envelope of the high frequency band signals than the shape of spectrum envelope of the synthesized high frequency band signals; and calculating high frequency gains based on the high frequency band signals and the short-time filtered signals. The technical solution according to each embodiment of the present invention can improve the encoding and/or decoding effect.

(57) 摘要: 本发明实施例提供了一种编码方法、解码方法、编码装置、解码装置、发射机、接收机和通信系统。所述编码方法包括: 将待编码的时域信号划分为低频带信号和高频带信号; 对低频带信号进行编码而获得低频编码参数; 对所述高频带信号进行编码而获得高频编码参数, 并根据所述低频编码参数和所述高频编码参数来获得合成高频带信号; 对所述合成高频带信号进行短时后滤波处理而得到短时滤波信号, 该短时滤波信号的频谱包络的形状与所述合成高频带信号的频谱包络的形状相比更接近所述高频带信号的频谱包络的形状; 基于所述高频带信号和所述短时滤波信号来计算高频增益。在本发明的各个实施例的技术方案, 能够改善编码和/或解码效果。



RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI,
CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD,
TG)。

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— 包括国际检索报告(条约第 21 条(3))。