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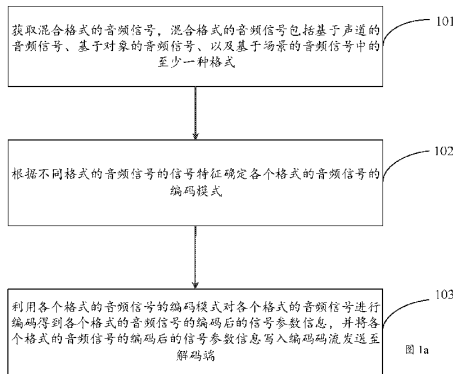
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(54) Title: SIGNAL ENCODING AND DECODING METHOD AND APPARATUS, AND USER EQUIPMENT, NETWORK SIDE DEVICE AND STORAGE MEDIUM

(54) 发明名称: 一种信号编解码方法、装置、用户设备、网络侧设备及存储介质



101 Acquire an audio signal in a mixed format, wherein the audio signal in a mixed format comprises at least one format of an audio signal based on a sound channel, an audio signal based on an object, and an audio signal based on a scenario

102 Determine an encoding mode of the audio signal in each format according to signal features of the audio signals in different formats

103 Use the encoding mode of the audio signal in each format to encode the audio signal in each format, so as to obtain encoded signal parameter information of the audio signal in each format, and write, into an encoding code stream, the encoded signal parameter information of the audio signal in each format, so as to send same to a decoding terminal

(57) Abstract: The present disclosure belongs to the technical field of communications. Provided are a signal encoding and decoding method and apparatus, and a decoding terminal, an encoding terminal and a storage medium. The method comprises: acquiring an audio signal in a mixed format, wherein the audio signal in a mixed format comprises at least one format of an audio signal based on a sound channel, an audio signal based on an object, and an audio signal based on a scenario; determining an encoding mode of the audio signal in each format according to signal features of the audio signals in different formats; and thereafter, using the encoding mode of the audio signal in each format to encode the audio signal in each format, so as to obtain encoded signal parameter information of the audio signal in each format, and writing, into an encoding code stream, the encoded signal parameter information of the audio signal in each format, so as to send same to a decoding terminal. By means of the method provided in the present disclosure, the efficiency of encoding is improved, and the complexity of encoding is reduced.

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

本国际公布：

— 包括国际检索报告(条约第21条(3))。

(57) 摘要：本公开提出一种信号编解码方法、装置、解码端、编码端及存储介质，属于通信技术领域。该方法包括：获取混合格式的音频信号，该混合格式的音频信号包括基于声道的音频信号、基于对象的音频信号、以及基于场景的音频信号中的至少一种格式，再根据不同格式的音频信号的信号特征确定各个格式的音频信号的编码模式，之后，会利用各个格式的音频信号的编码模式对各个格式的音频信号进行编码得到各个格式的音频信号的编码后的信号参数信息，并将各个格式的音频信号的编码后的信号参数信息写入编码码流发送至解码端。在本公开提供的方法可以提升编码的效率降低编码复杂度。