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(54) **Title:** METHOD, APPARATUS AND SYSTEM FOR PROCESSING MULTI-CHANNEL AUDIO SIGNAL

(54) **发明名称:** 一种处理多声道音频信号的方法、装置和系统

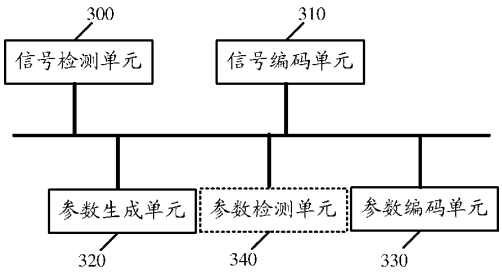


图 3a

300 SIGNAL DETECTION UNIT
310 SIGNAL ENCODING UNIT
320 PARAMETER GENERATION UNIT
330 PARAMETER DETECTION UNIT
340 PARAMETER ENCODING UNIT

(57) **Abstract:** A method, apparatus and system for processing a multi-channel audio signal, relating to the technical field of audio encoding and decoding, for solving the problem in the prior art that a multi-channel audio communication system cannot discontinuously transmit an audio signal. An encoder comprises: a signal detection unit and a signal encoding unit, wherein the signal encoding unit is used for encoding an nth frame of a down-mixed signal when the signal detection unit detects that the nth frame of the down-mixed signal contains a voice signal, and when the signal detection unit detects that the nth frame of the down-mixed signal does not contain a voice signal: encoding the nth frame of the down-mixed signal, if the signal detection unit determines that the nth frame of the down-mixed signal meets a pre-set audio frame encoding condition; not encoding the nth frame of the down-mixed signal, if the signal

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detection unit determines that the nth frame of the down-mixed signal does not meet the pre-set audio frame encoding condition. By means of the technical solution, since the encoding of the down-mixed signal is discontinuous, the problem in the prior art that an audio signal cannot be transmitted discontinuously is solved.

(57) 摘要：一种处理多声道音频信号方法、装置和系统，涉及音频编解码技术领域，用以解决现有技术中多声道音频通信系统不能非连续传输音频信号的问题。其中，编码器包括：信号检测单元和信号编码单元，信号编码单元用于在信号检测单元检测到第N帧下混信号中包含语音信号时，对第N帧下混信号编码，以及在信号检测单元检测到第N帧下混信号中不包含语音信号时：若信号检测单元确定第N帧下混信号满足预设的音频帧编码条件，则对第N帧下混信号编码；若信号检测单元确定第N帧下混信号不满足预设的音频帧编码条件，则不对第N帧下混信号编码。这种技术方案由于对下混信号的编码是非连续的，因此解决了现有技术中不能非连续传输音频信号的问题。