ABSTRACT

MULTICHANNEL AUDIO SIGNAL PROCESSING METHOD, APPARATUS, AND SYSTEM

The present invention provides a multichannel audio signal processing method, an apparatus, and a system, and relates to the field of audio encoding and decoding technologies, to resolve a problem in the prior art that an audio signal cannot be discontinuously transmitted in a multichannel audio communications system. An encoder includes a signal detection unit and a signal encoding unit. The signal encoding unit is configured to: when the signal detection unit detects that an N^{th}-frame downmixed signal includes a speech signal, encode the N^{th}-frame downmixed signal; or when the signal detection unit detects that the N^{th}-frame downmixed signal does not include a speech signal: encode the N^{th}-frame downmixed signal if the signal detection unit determines that the N^{th}-frame downmixed signal satisfies a preset audio frame encoding condition, or skip encoding the N^{th}-frame downmixed signal if the signal detection unit determines that the N^{th}-frame downmixed signal does not satisfy a preset audio frame encoding condition. In this technical solution, because encoding on a downmixed signal is discontinuous, the problem in the prior art that the audio signal cannot be discontinuously transmitted is resolved.

Fig. 3A