

METHOD, SYSTEM, DEVICE, AND ELECTRONIC SIGNATURE TOOL FOR AUDIO COMMUNICATION MODULATION SCHEME SELF-ADAPTATION

ABSTRACT

5 Provided in the present invention are a method, system, device, and electronic signature tool for audio communication modulation scheme self-adaptation. The method comprises the following steps: a first device modulates first audio data by means of at least two modulation schemes to generate first audio data code streams, and splices same into a first audio data stream for
10 transmission to a second device; the second device determines, on the basis of the first audio data stream, the modulation schemes correctly received and supported by the first device, modulates by means of the at least two modulation schemes second audio data comprising the modulation schemes correctly received and supported by the first device to generate second audio data code streams, and splices same into a second audio data stream for transmission to the first device; the
15 first device determines, on the basis of the second audio data stream, the modulation schemes correctly received and supported by the second device; and, the first device selects the optimal modulation scheme used thereby and the optimal modulation scheme used by the second device. The method allows for rapid determination of the audio modulation scheme, allows rapid exchange of audio data, and reduces loss of fidelity in exchanged data.

20 Fig. 1

METHOD, SYSTEM AND APPARATUS FOR AUDIO COMMUNICATION MODULATION MODE SELF-ADAPTATION AND ELECTRONIC SIGNATURE TOKEN

ABSTRACT

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A method and system for audio communication modulation mode self-adaptation, an apparatus for audio communication modulation mode self-adaptation in a mobile terminal and an electronic signature token are provided. The method includes modulating first audio data to generate first audio data frame streams; modulating second audio data to generate second audio data frame streams; demodulating the second audio data stream to obtain modulation modes correctly received by the first device and supported by the second device and modulation modes correctly received by the second device and supported by the first device; selecting an optimal modulation mode used in the second device from the modulation modes correctly received by the second device and supported by the first device, and selecting an optimal modulation mode used in the first device from the modulation modes correctly received by the first device and supported by the second device, according to a predetermined rule.

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Fig. 1