

METHOD AND APPARATUS FOR DETERMINING INTER-CHANNEL TIME DIFFERENCE PARAMETER

ABSTRACT

A method and an apparatus for determining an inter-channel time difference parameter are provided, to reduce a calculation amount in a process of searching for and calculating an inter-channel time difference in a stereo encoding process. The method includes: determining a reference parameter according to a time-domain signal on a first sound channel and a time-domain signal on a second sound channel, where the reference parameter is corresponding to a sequence of obtaining the time-domain signal on the first sound channel and the time-domain signal on the second sound channel, and the time-domain signal on the first sound channel and the time-domain signal on the second sound channel are corresponding to a same time period (S110); determining a search range according to the reference parameter and a limiting value $T_{\max}$, where the limiting value $T_{\max}$ is determined according to a sampling rate of the time-domain signal on the first sound channel, and the search range falls within $[-T_{\max}, 0]$, or the search range falls within $[0, T_{\max}]$ (S120); and performing search processing within the search range based on a frequency-domain signal on the first sound channel and a frequency-domain signal on the second sound channel, to determine a first inter-channel time difference ITD parameter corresponding to the first sound channel and the second sound channel (S130).

Fig. 1