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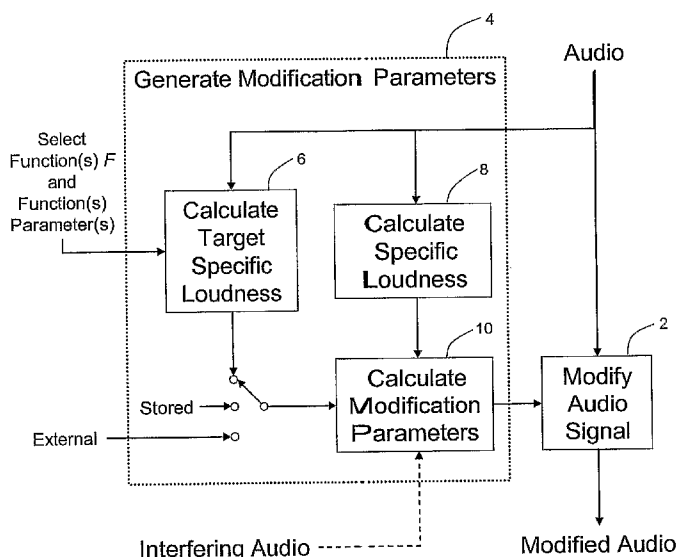
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(54) Title: CALCULATING AND ADJUSTING THE PERCEIVED LOUDNESS AND/OR THE PERCEIVED SPECTRAL BALANCE OF AN AUDIO SIGNAL



(57) Abstract: The invention relates to the measurement and control of the perceived sound loudness and/or the perceived spectral balance of an audio signal. An audio signal is modified in response to calculations performed at least in part in the perceptual (psychoacoustic) loudness domain. The invention is useful, for example, in one or more of: loudness-compensating volume control, automatic gain control, dynamic range control (including, for example, limiters, compressors, expanders, etc.), dynamic equalization, and compensating for background noise interference in an audio playback environment. The invention includes not only methods but also corresponding computer programs and apparatus.

WO 2006/047600 A1



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