

AUDIO SIGNAL PROCESSING METHOD, COMPUTER PROGRAM, AND
AUDIO SIGNAL PROCESSING DEVICE

[ABSTRACT]

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10 An audio signal processing method executed by an audio signal
processing device includes: obtaining an audio signal having an attribute
that includes information indicating an indirect sound; calculating a first
sound volume, the first sound volume being based on a sound volume of
the indirect sound when the indirect sound arrives at a listening position
that is a position where a listener is present, the calculating being based
on: a first correction characteristic obtained by correcting, using a
frequency characteristic indicating auditory sensitivity, a gain characteristic
of each predetermined frequency bandwidth related to the indirect sound;
15 and the audio signal obtained; calculating a second sound volume, the
second sound volume being based on a sound volume of a direct sound,
associated with the indirect sound, when the direct sound arrives at the
listening position; selecting whether to output an output signal that is based
on the audio signal obtained, based on: a sound volume ratio between the
20 second sound volume calculated and the first sound volume calculated; and
a time difference between when the direct sound and the indirect sound
arrive; and outputting the output signal, when outputting the output signal
is selected.

25 Figure 29