

CLAIMS

1. An audio processing device, comprising:
 - a position information correction unit configured to:
 - calculate corrected position information that indicates a first position of a sound source relative to a listening position at which sound from the sound source is heard, wherein
 - the corrected position information is calculated based on position information and listening position information,
 - the position information indicates a second position of the sound source relative to a standard listening position,
 - the listening position information indicates the listening position,~~and~~
 - ~~the second position of the sound source is expressed by a spherical coordinate and the listening position is expressed by xyz coordinate;~~ and
 - a generation unit configured to:
 - perform vector base amplitude panning (VBAP) on a waveform signal of the sound source to generate reproduction signals on M channels, wherein
 - the M is three or more, and
 - the reproduction signals on the M channels are generated based on the corrected position information supplied from the position information correction unit; and
 - convert the reproduction signals on the M channels into reproduction signals on two channels.
2. An audio processing method, comprising:
 - in an audio processing device:
 - calculating corrected position information that indicates a first position of a sound source relative to a listening

position at which sound from the sound source is heard,
wherein

the corrected position information is calculated based on
position information and listening position information,

the position information indicates a second position of
the sound source relative to a standard listening position,

the listening position information indicates the
listening position,~~and~~

~~the second position of the sound source is expressed by a
spherical coordinate and the listening position is expressed
by xyz coordinate;~~

performing vector base amplitude panning (VBAP) on a
waveform signal of the sound source to generate reproduction
signals on M channels, wherein

the M is two or more, and

the reproduction signals on the M channels are generated
based on the corrected position information; and

converting the reproduction signals on the M channels
into reproduction signals on two channels.

3. A non-transitory computer-readable medium having stored
thereon computer-executable instructions that, when executed
by a processor, cause the processor to execute operations, the
operations comprising:

calculating corrected position information that indicates
a first position of a sound source relative to a listening
position at which sound from the sound source is heard,
wherein

the corrected position information is calculated based on
position information and listening position information,

the position information indicates a second position of
the sound source relative to a standard listening position,

the listening position information indicates the listening position,~~and~~

~~the second position of the sound source is expressed by a spherical coordinate and the listening position is expressed by xyz coordinate;~~

performing vector base amplitude panning (VBAP) on a waveform signal of the sound source to generate reproduction signals on M channels, wherein

the M is two or more, and

the reproduction signals on the M channels are generated based on the corrected position information; and

converting the reproduction signals on the M channels into reproduction signals on two channels.