



Abstract

Method and Apparatus to Generate An Audio Beam with High Quality

- 5 The present invention proposes a system in which an ultrasonic carrier beam is modulated using an audio input signal. The audio signal is divided into frequency bands, and that frequencies in different ones of these bands are treated differently. Specifically, different modulating schemes are used for different frequency bands. Also, different transducer aperture sizes are used for different
- 10 frequency signals. Also, a further frequency equalizer is provided within each of the frequency bands. Finally, a relatively smaller amplitude modulating index (or indices) is used for signals in low frequency band(s).

[Fig. 2]



G00002