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(54) **METHOD AND SYSTEM FOR REDUCING NOISE**

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(57) **ABSTRACT**

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System for producing a substantially noise-free signal of an acoustic sound, and for producing a sound, the sound including a desired sound and an anti-phase noise sound, the anti-phase noise sound being in anti-phase relative to a noise, the system including an acoustoelectric transducer, a reference-acoustoelectric transducer and an audio controller coupled with the reference-acoustoelectric transducer and the acoustoelectric transducer, wherein the acoustoelectric transducer produces a noise bearing sound signal by detecting the acoustic sound and the noise, wherein the reference-acoustoelectric transducer produces the reference noise signal by detecting the noise in a noisy environment and wherein the audio controller produces the substantially noise-free signal, according to the reference noise signal and the noise bearing sound signal.

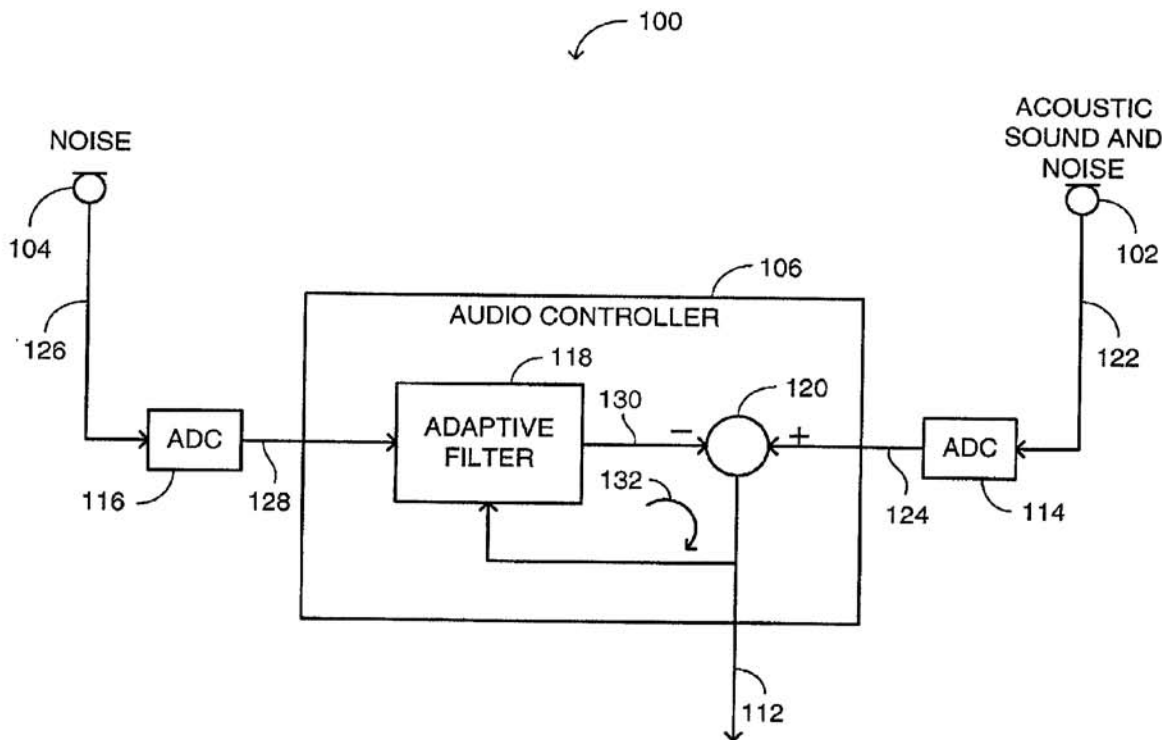
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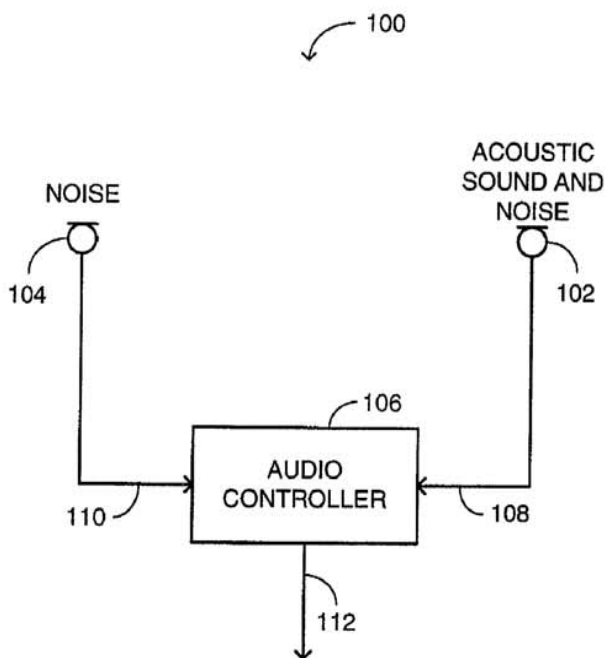


FIG. 1A

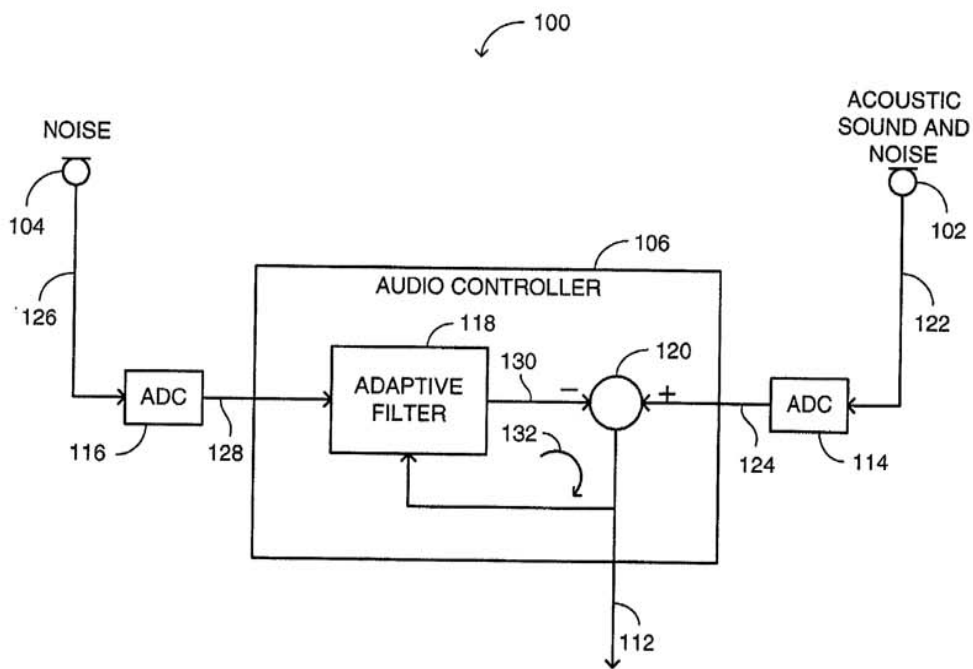


FIG. 1B

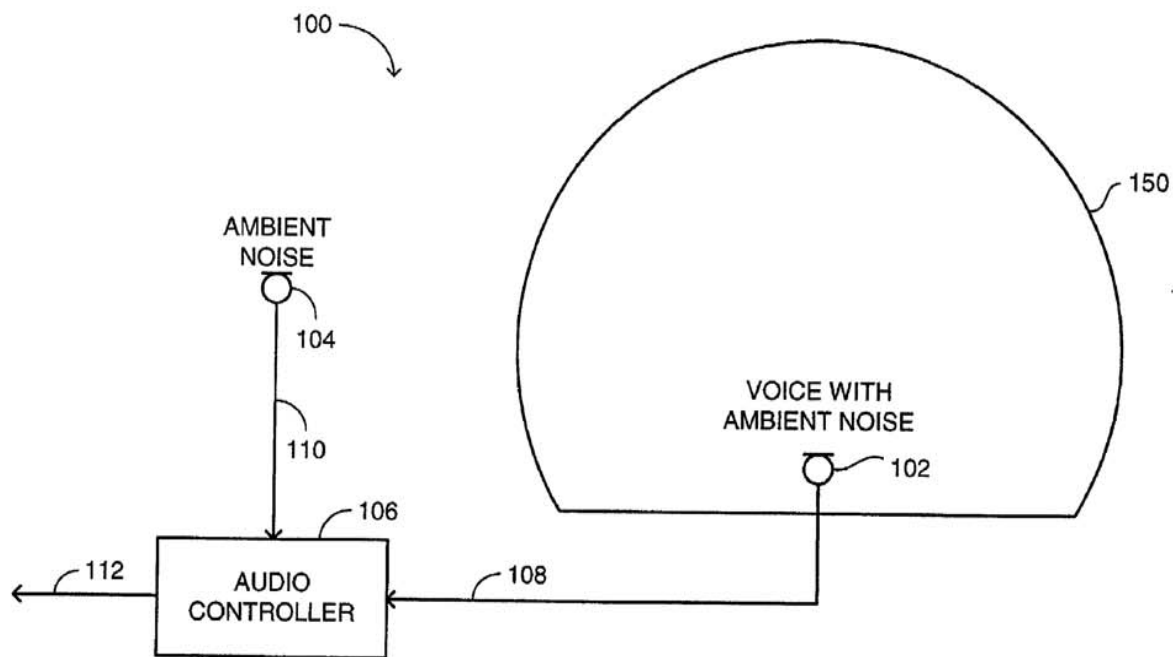


FIG. 1C

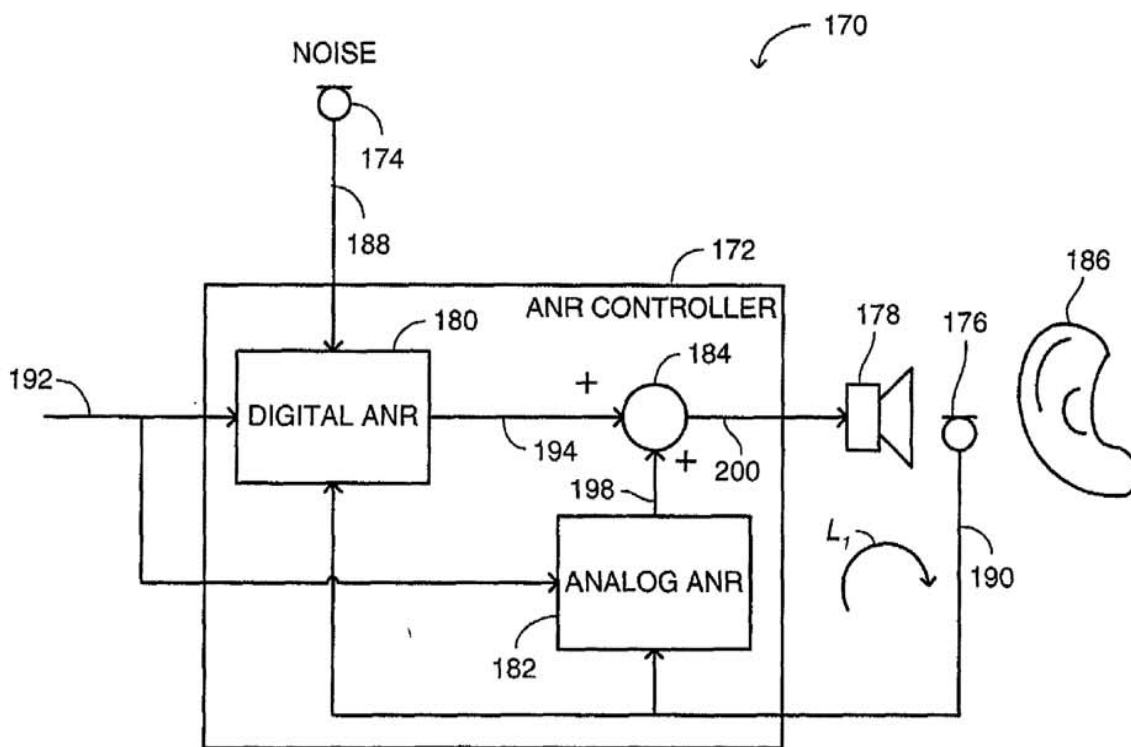


FIG. 2A

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