



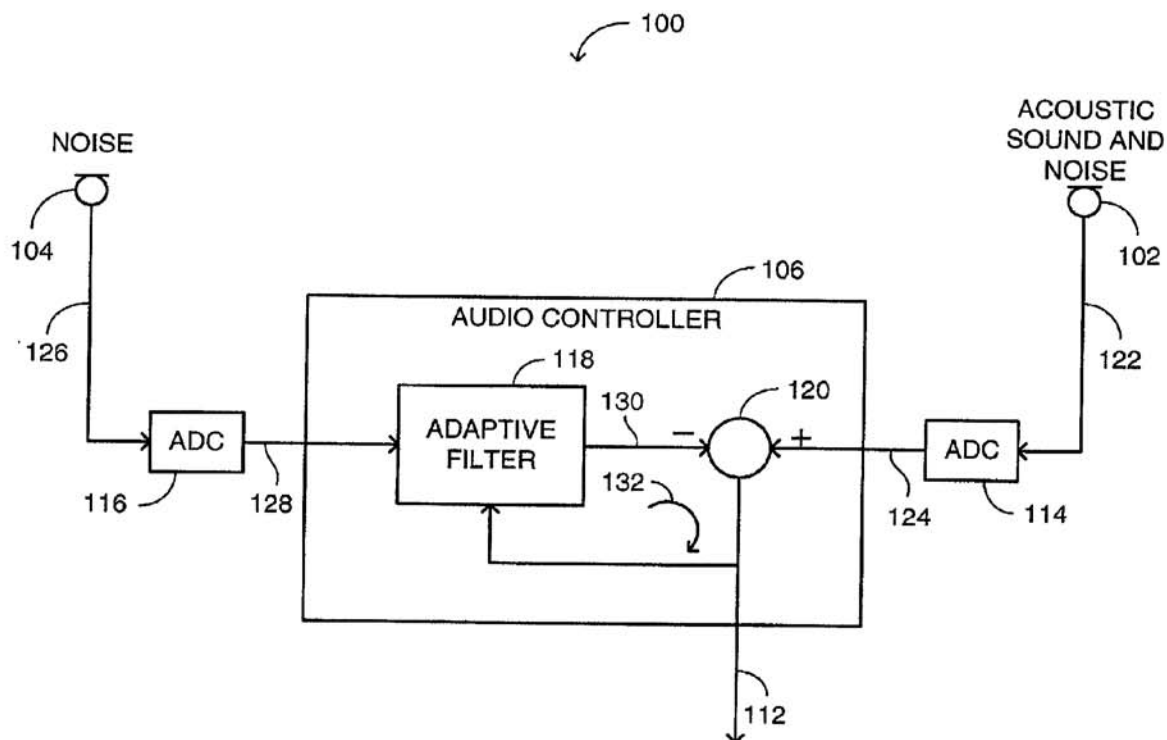
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(19) **United States**(12) **Patent Application Publication****Eichler et al.**(10) **Pub. No.: US 2003/0228019 A1**(43) **Pub. Date: Dec. 11, 2003**(54) **METHOD AND SYSTEM FOR REDUCING NOISE**(52) **U.S. Cl. 381/71.8; 381/71.1; 381/57**(75) **Inventors: Uzi Eichler, Haifa (IL); Lior Barak, Haifa (IL); Avner Paz, Reut (IL)**(57) **ABSTRACT**

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(73) **Assignee: Elbit Systems Ltd., Haifa (IL)**(21) **Appl. No.: 10/167,066**(22) **Filed: Jun. 11, 2002****Publication Classification**(51) **Int. Cl.⁷ A61F 11/06; G10K 11/16; H03B 29/00**

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.



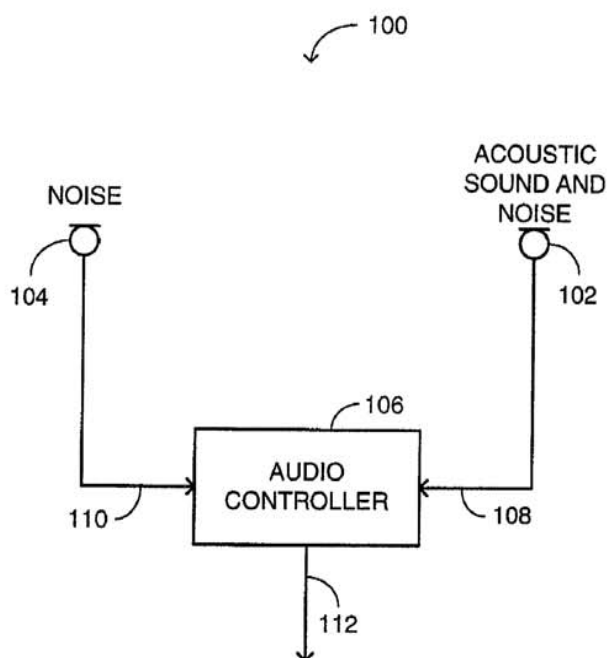


FIG. 1A

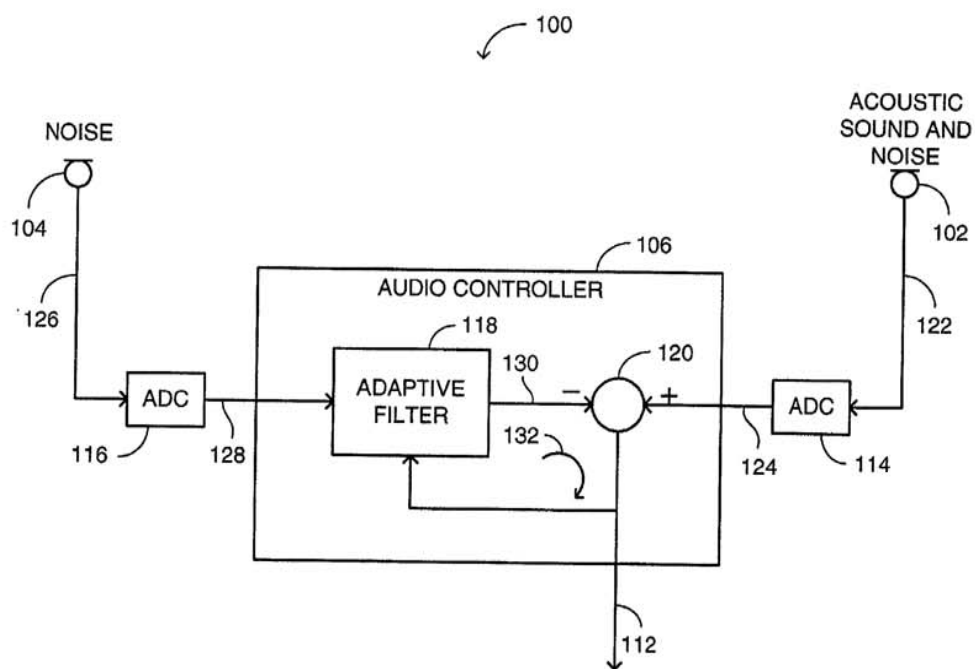


FIG. 1B

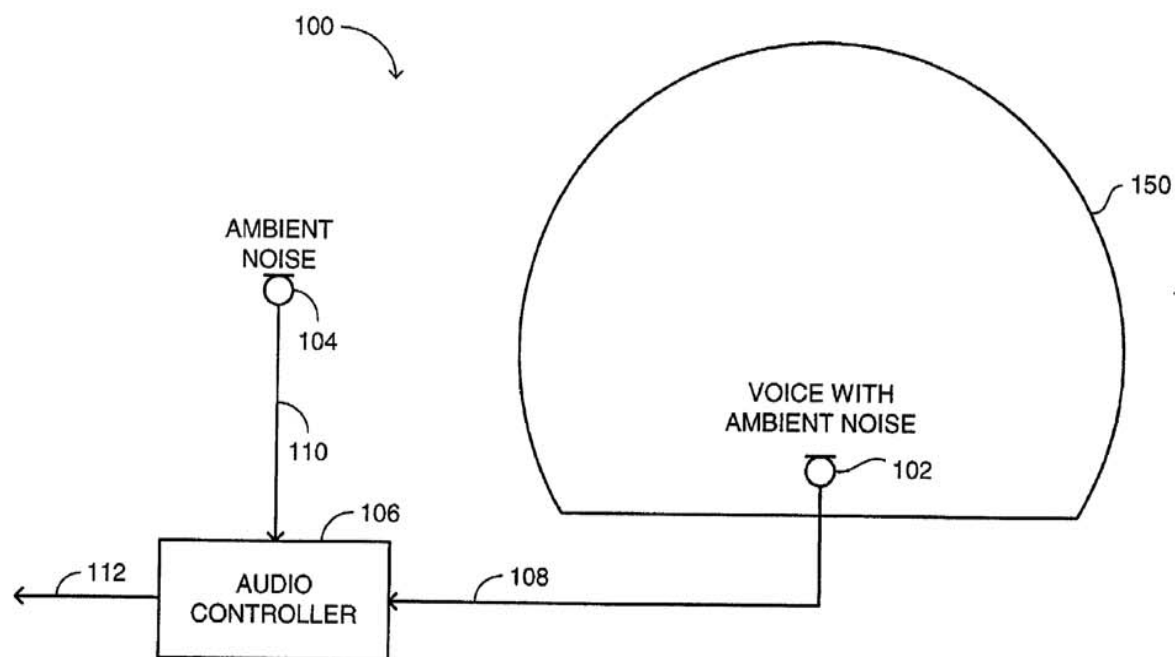


FIG. 1C

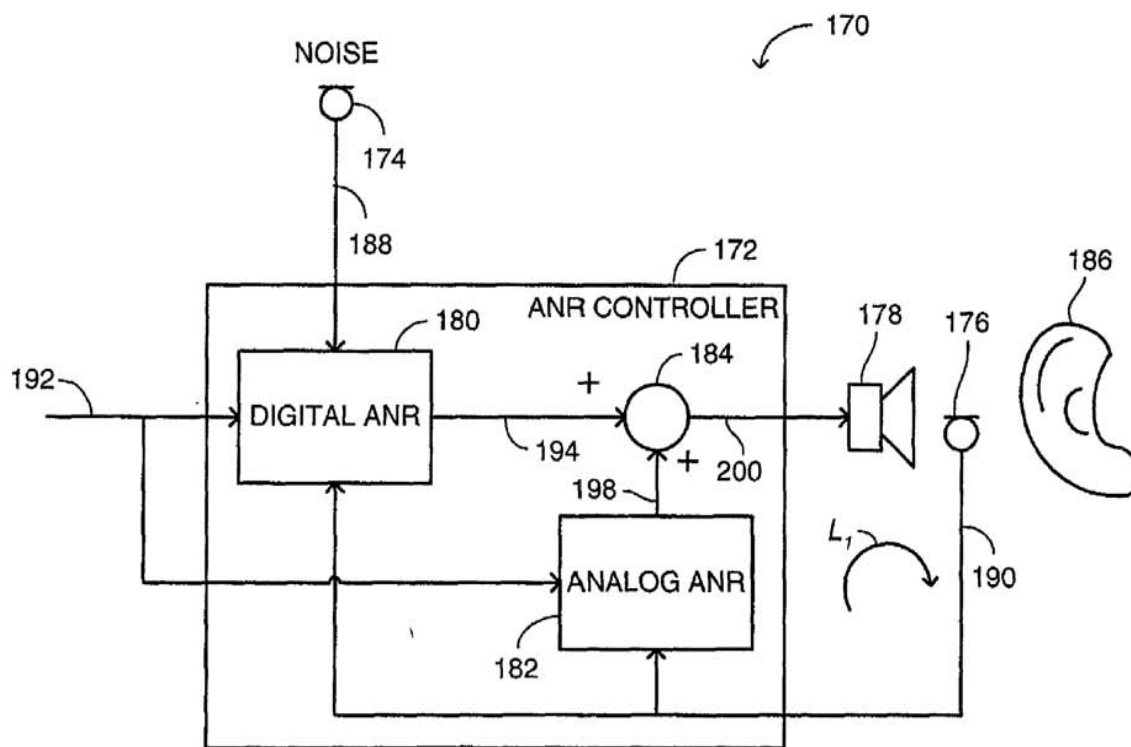


FIG. 2A

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