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**Burnett**

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(54) **METHOD AND APPARATUS FOR REMOVING NOISE FROM ELECTRONIC SIGNALS**

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(76) **Inventor: Gregory C. Burnett, Livermore, CA (US)**

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Correspondence Address:  
**Shemwell Gregory & Courtney LLP**  
**Suite 201**  
**4880 Stevens Creek Boulevard**  
**San Jose, CA 95129 (US)**

(57) **ABSTRACT**

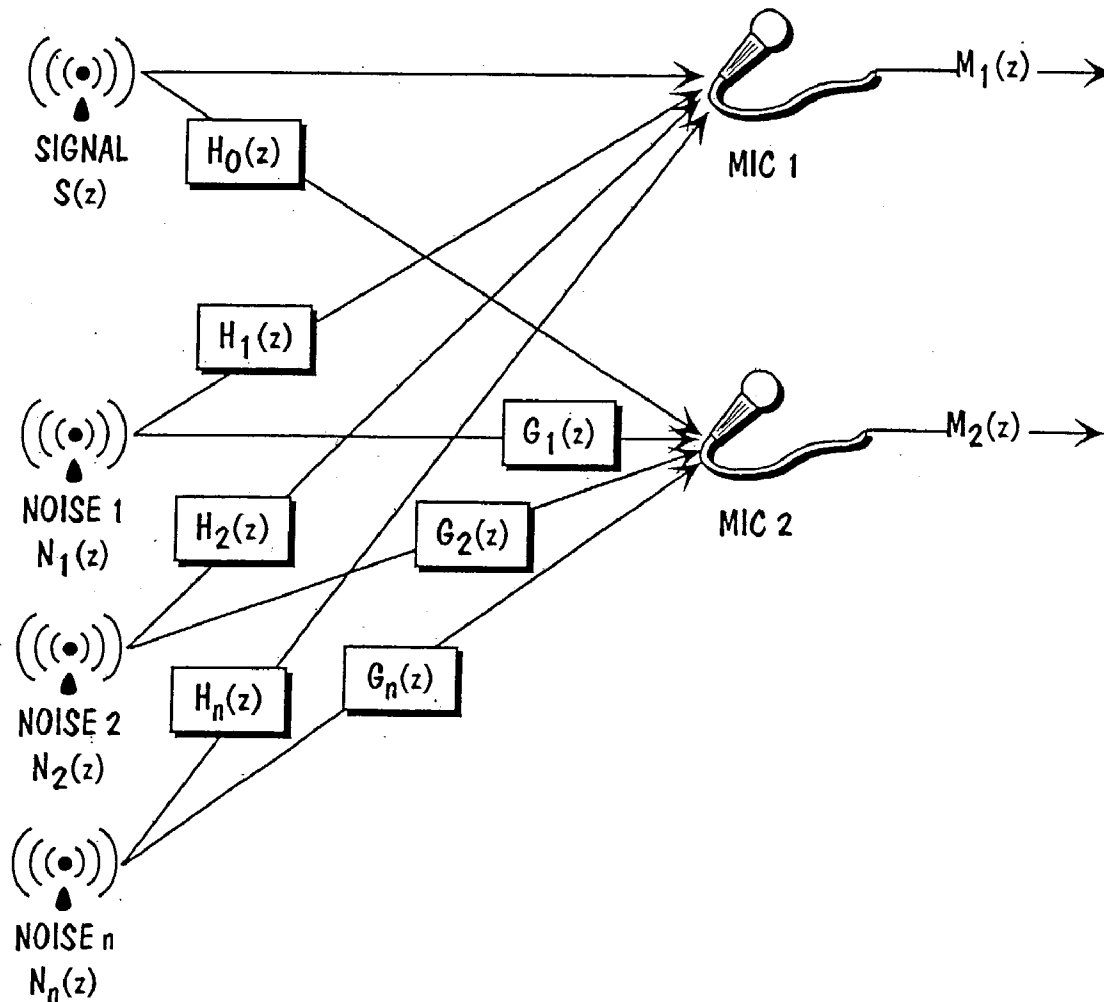
A method and system for removing acoustic noise removal from human speech is described. Acoustic noise is removed regardless of noise type, amplitude, or orientation. The system includes a processor coupled among microphones and a voice activation detection ("VAD") element. The processor executes denoising algorithms that generate transfer functions. The processor receives acoustic data from the microphones and data from the VAD. The processor generates various transfer functions when the VAD indicates voicing activity and when the VAD indicates no voicing activity. The transfer functions are used to generate a denoised data stream.

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(63) **Continuation-in-part of application No. 09/905,361, filed on Jul. 12, 2001.**



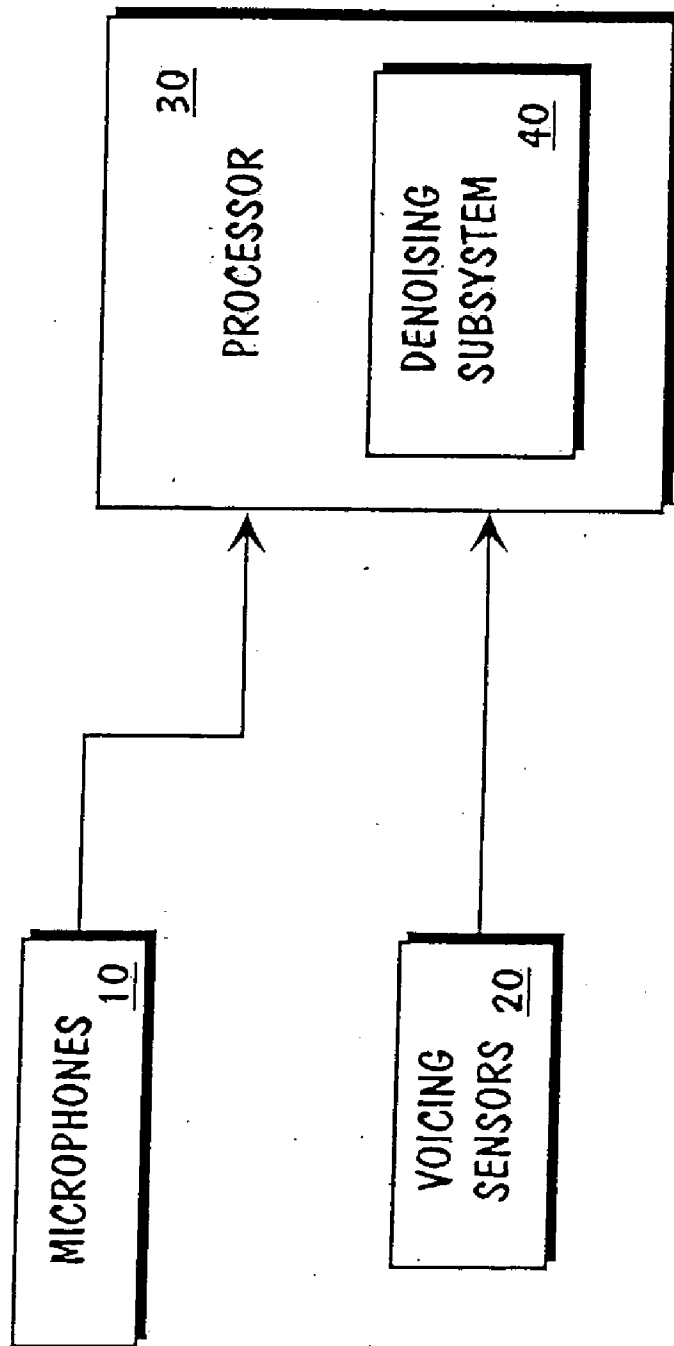


FIG. 1

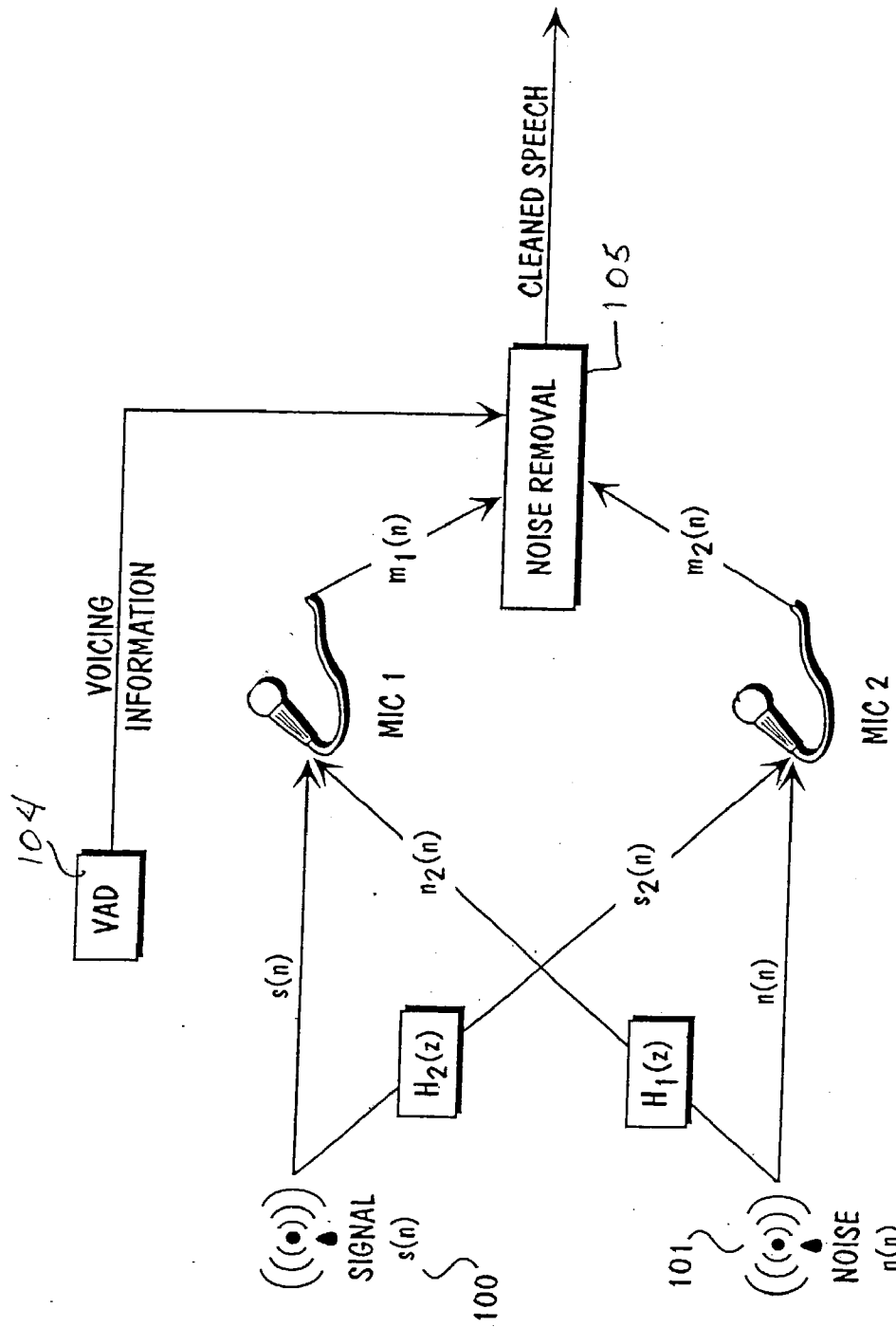


FIG. 2

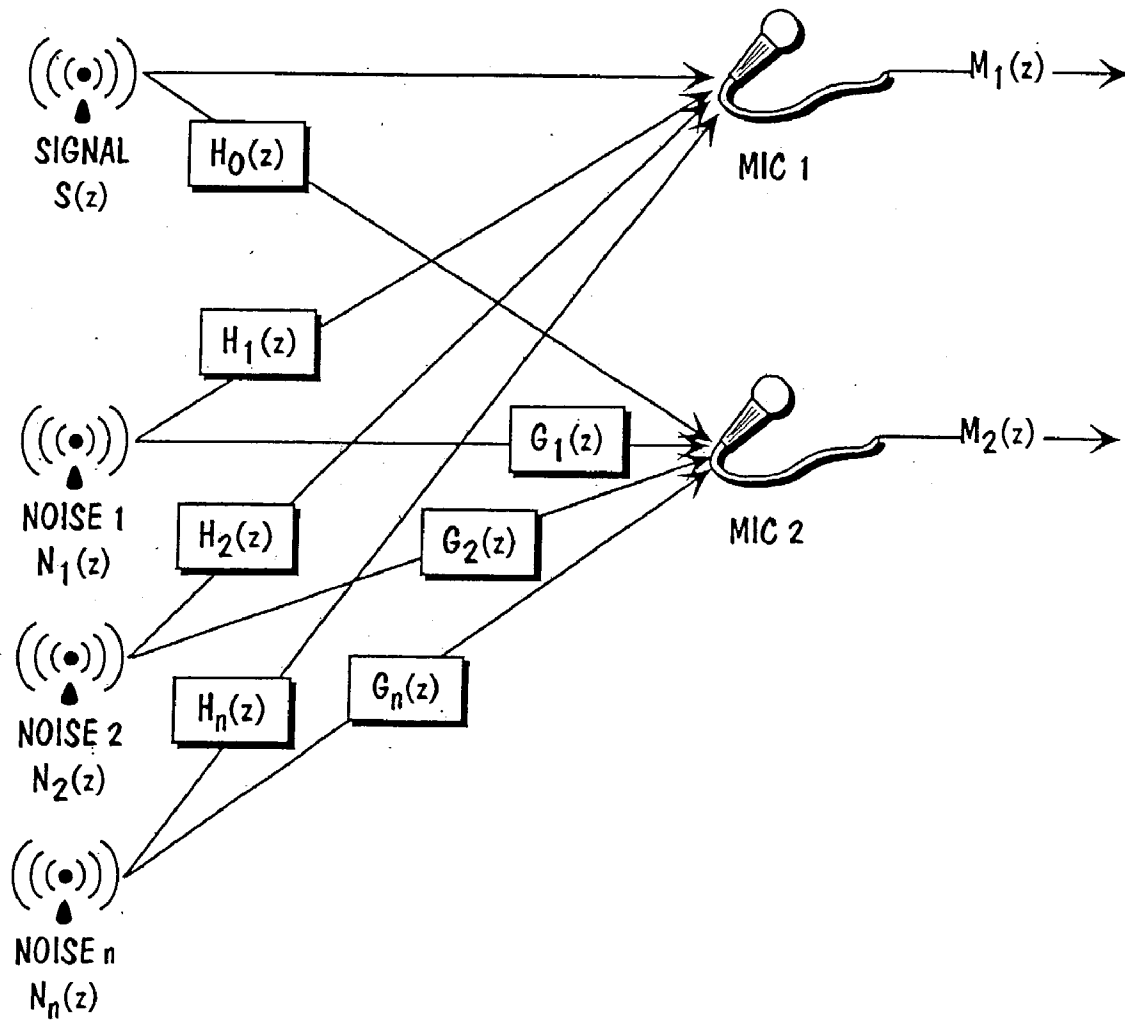


FIG. 3

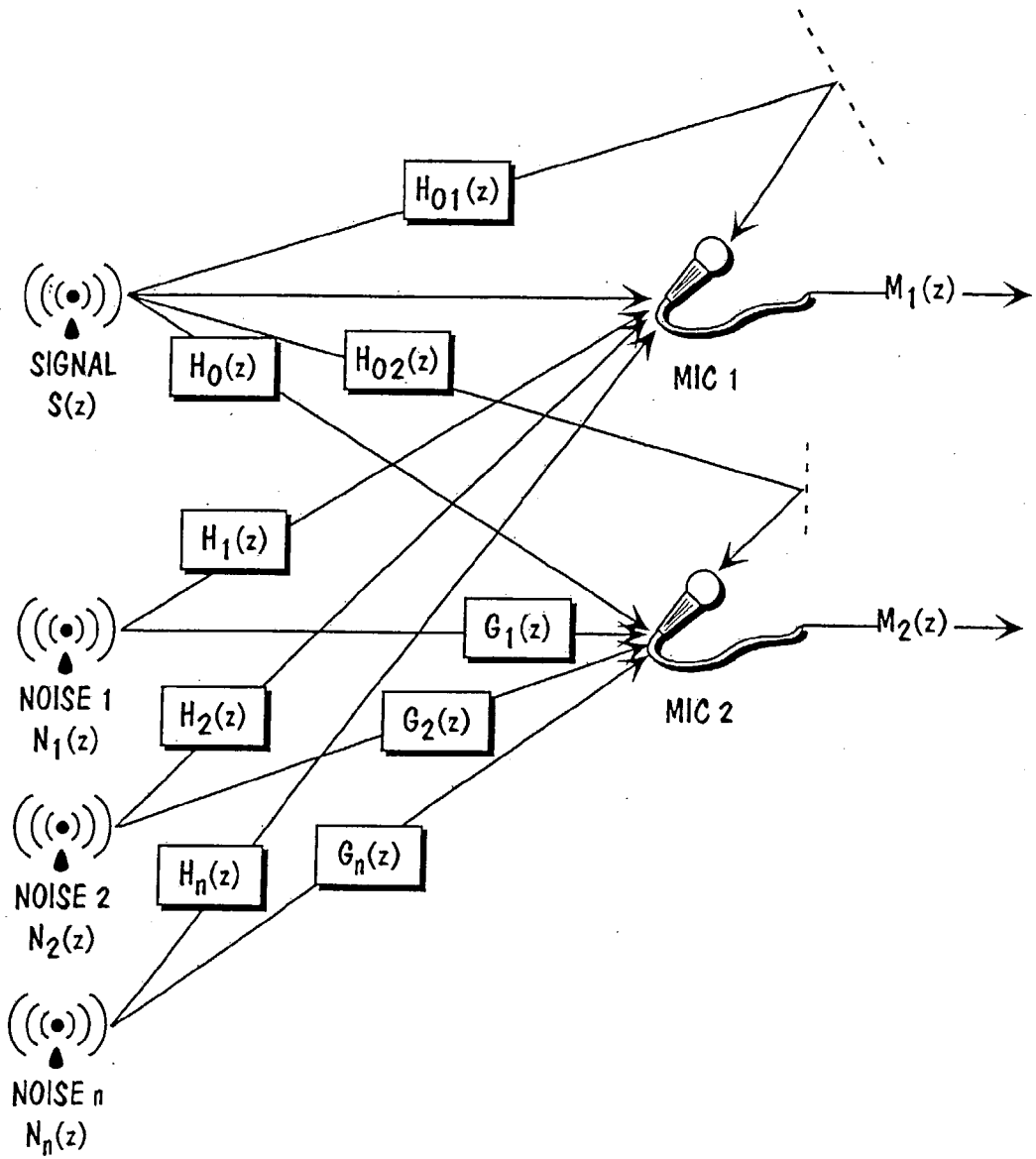


FIG. 4

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