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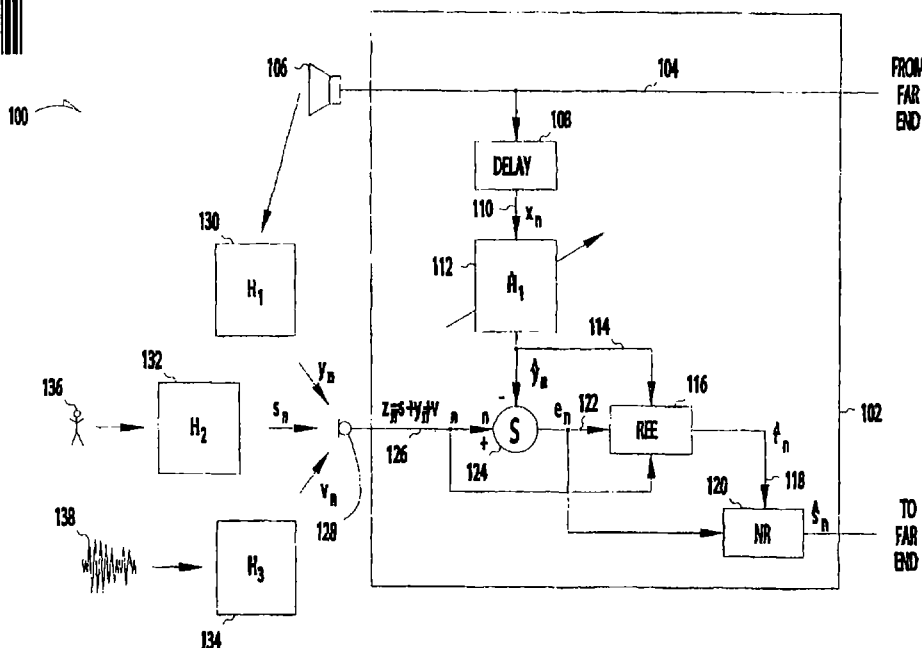
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(54) Title: **RESIDUAL ECHO ESTIMATION FOR ECHO CANCELLATION**



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(57) Abstract: Real and imaginary components of the discrete Fourier transform (DTF) of the residual echo in an acoustic echo cancellation system are separately estimated using mapping functions derived without an assumption of statistical independence between separate components of a near-end microphone input signal. The residual echo estimator calculates the real and imaginary components using an approximation of the microphone input signal without the echo. A different approximation is used depending on whether the near-end talker and/or the far-end talker are talking.

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