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(54) **RESPONSE-SELECT NULL STEERING CIRCUIT**

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(57) **ABSTRACT**

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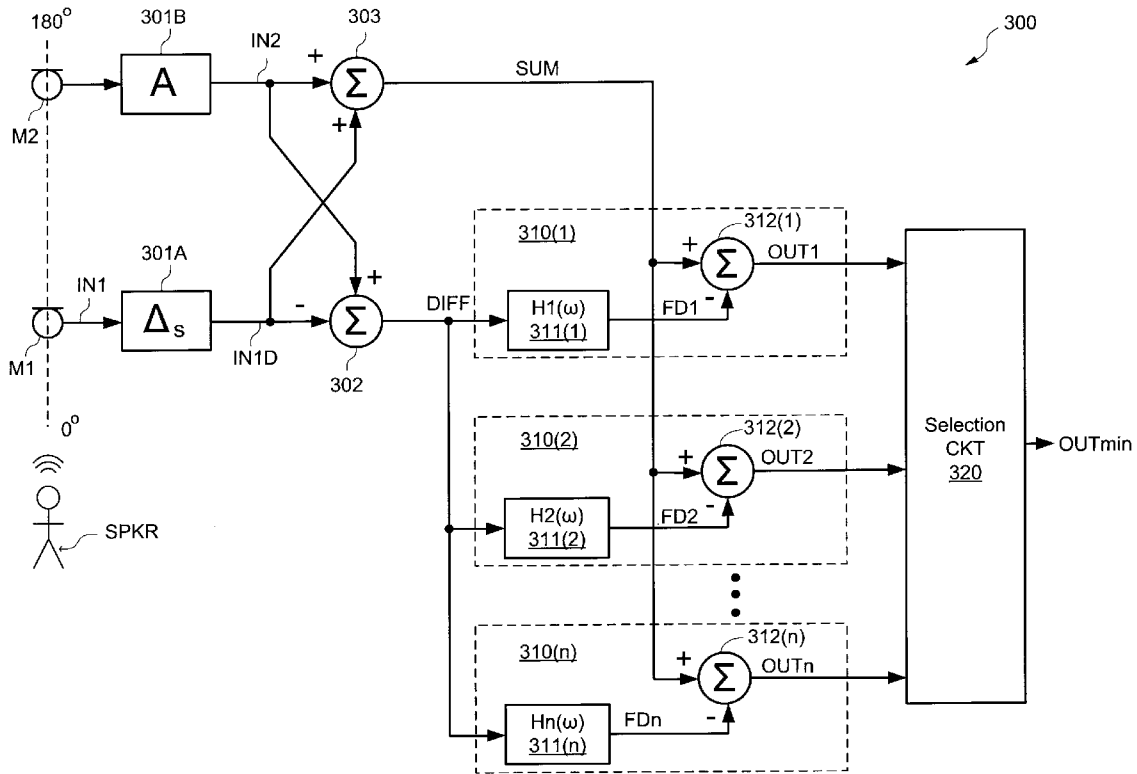
A response select null steering circuit includes a beamformer, a plurality of separate fixed filters, and a selection circuit. In response to sound signals emitted from a desired speaker and an unwanted interferer, a sum signal containing signal components of the speaker and interferer is generated, and the beamformer generates a difference signal that suppresses signal components of the speaker. Each filter provides a null in a unique direction relative to the desired speaker, and can be individually configured to suppress sound signals from an interferer in a particular direction. The selection circuit selects the filter output signal that has the least amount of signal energy as achieving the best suppression of the unwanted interferer.

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Related U.S. Application Data

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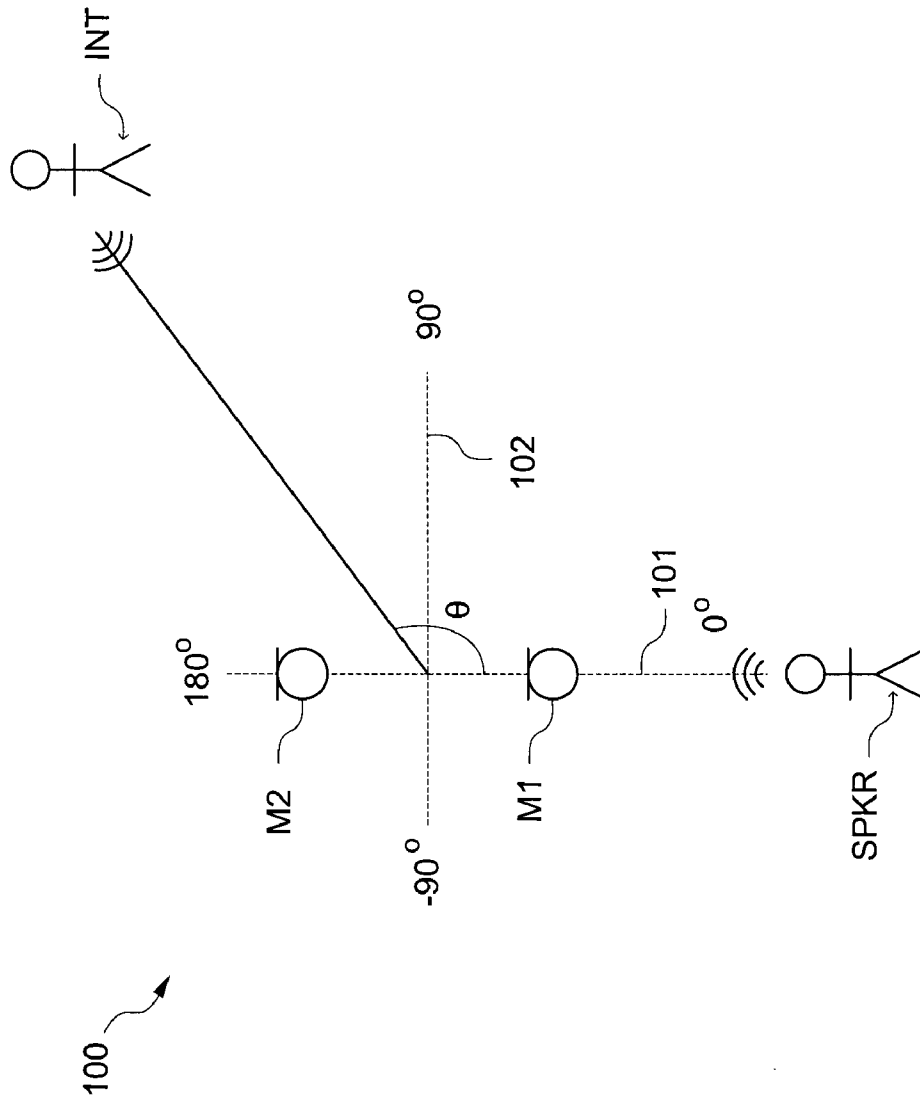


FIG. 1A

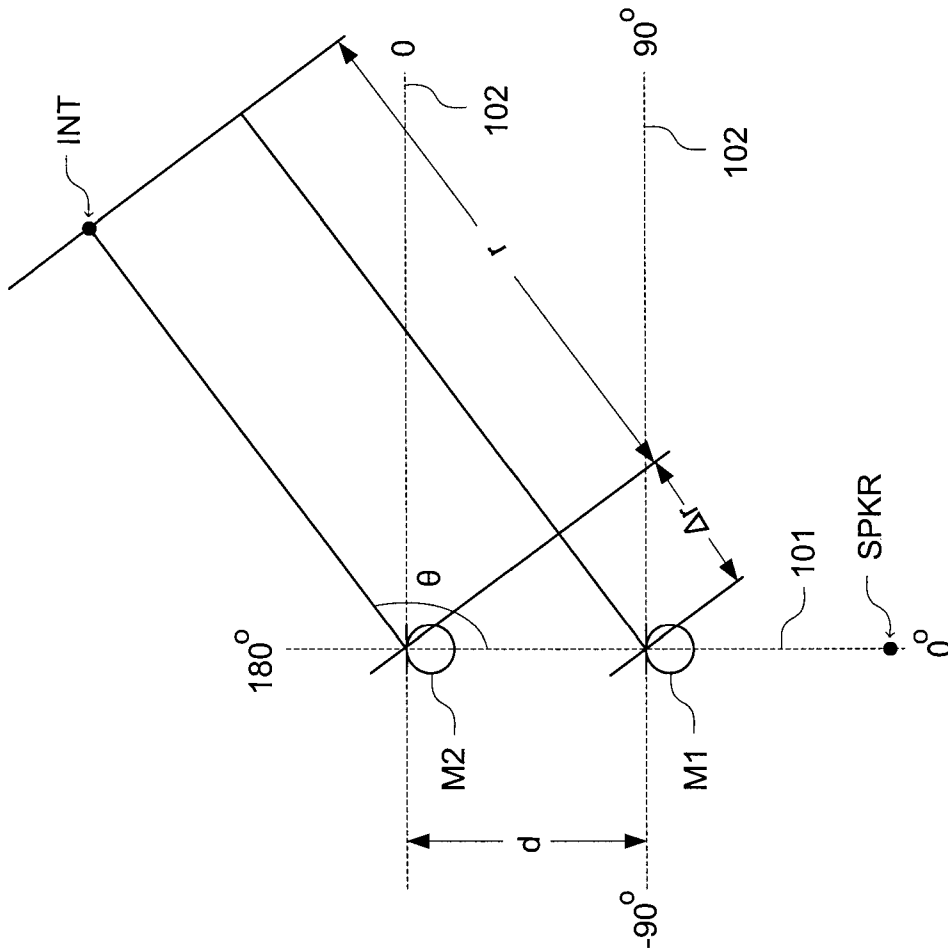


FIG. 1B

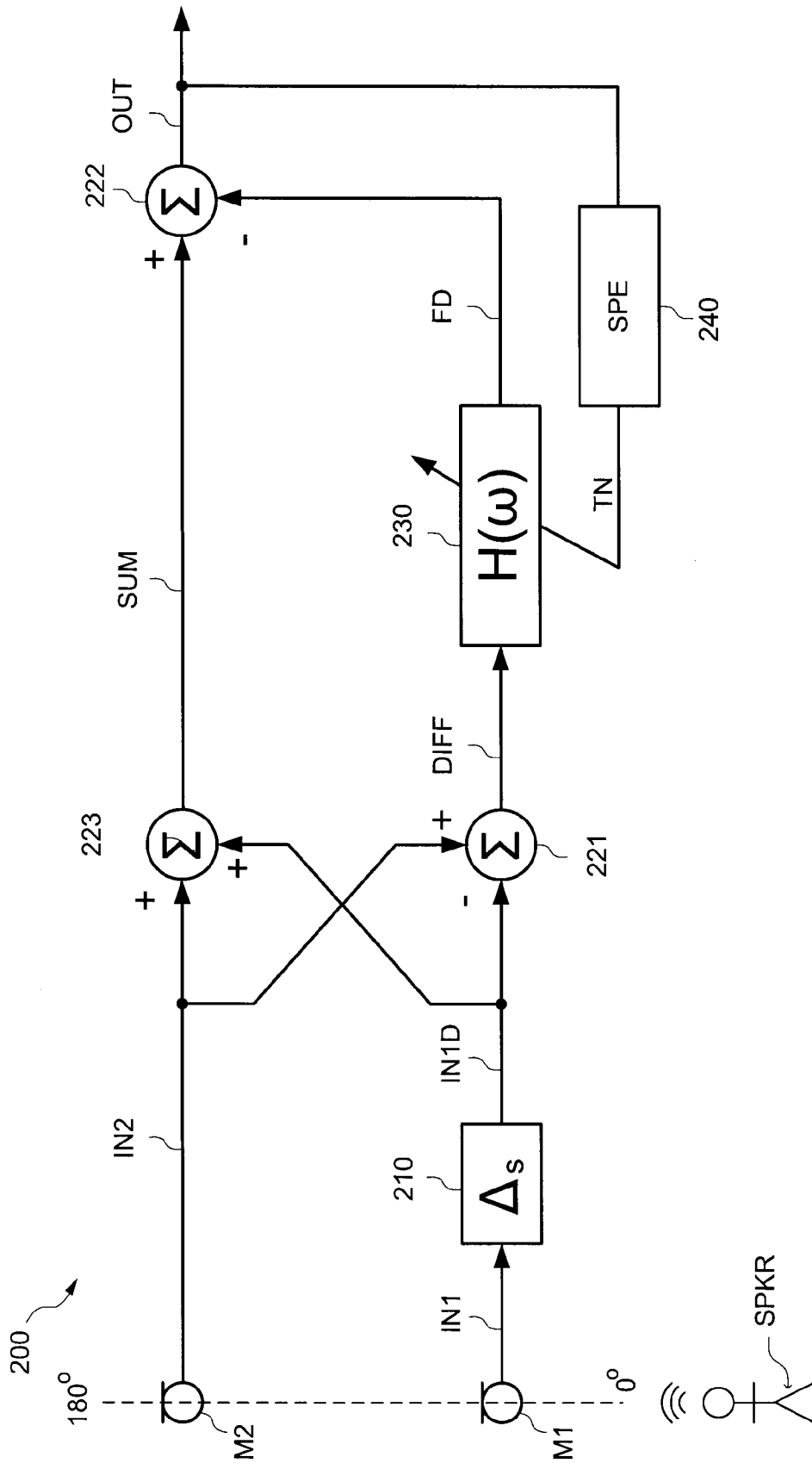


FIG. 2

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