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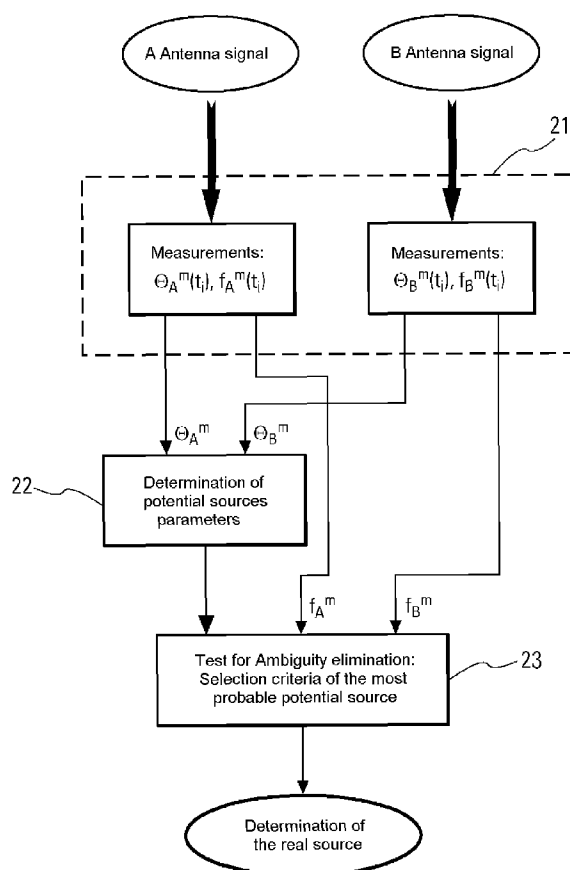
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(54) Title: PROCEDURE FOR ELIMINATING GHOST SOURCES FROM PASSIVE SONAR COMPRISING SEVERAL LINEAR ANTENNAS



(57) Abstract: This invention concerns the field of passive sonar systems simultaneously processing several linear antennas. This invention consists mainly of a procedure for eliminating ghost sources for a passive sonar comprising at least two linear antennas A and B, with: An initial acquisition step (21) during which the signal received is measured at different moments of measurement t_i , and for each antenna, the Doppler frequency f of the signal received is determined, as well as the possible values of the azimuth Θ of the source, A second step (22) for determining the potential values of the This step is performed using the measured azimuth source speed. frequency f values, A third step (23) eliminating ambiguity and rejecting ghost sources during which it is determined, for which of the potential sources, the speed and frequency values will satisfy, for each measurement moment t_i , the measurement equations linking the frequency of the signal received to the frequency f_0 emitted by the source, at the source speed and position. This invention mainly concerns harbor surveillance systems comprising several passive linear antennas laid on the seabed and located around the roadstead.



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