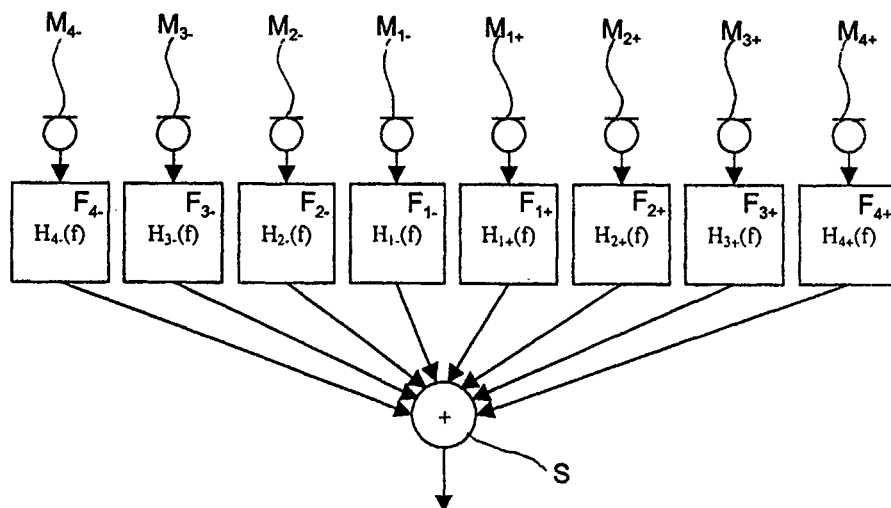




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(54) Title: MICROPHONE ARRAY WITH HIGH DIRECTIVITY**(57) Abstract**

A microphone array with high directivity comprises a multiple of microphones arranged in an elongated housing (10). The individual microphones are disposed in pairs and the individual microphones in each pair are placed on each side of a centreline for the microphone array. The signals from the microphones are summated in the formation of the output signal from the microphone array. The microphones on each side of the centreline are positioned with distances between one another which are not equidistant, and between each microphone (M_{4-} – M_{4+}) and a summation link (S) is coupled to a low-pass filter (F_{1+} , F_{2+} , F_{3+} , F_{4+} , F_{1-} , F_{2-} , F_{3-} , F_{4-}). The microphones associated with one and the same pair are connected to low-pass filters with the same cut-off frequency, and the cut-off frequency for the low-pass filters is different for each pair of microphones in that the cut-off frequency is lowest for that pair of microphones (M_{4-} , M_{4+}) which lie furthest away from the centreline, and is higher the closer the pair of microphones lies to the centreline. The microphone array is arranged in such a manner that the distances between the microphones and the cut-off frequencies for the low-pass filters are mutually adjusted in relation to one another.

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