

Title (en)
TRANSDUCER ARRANGEMENT

Publication
EP 0263314 B1 19911218 (DE)

Application
EP 87113165 A 19870909

Priority
DE 3633991 A 19861006

Abstract (en)
[origin: EP0263314A2] To achieve a constant aperture angle of a directional pattern over a wide frequency range, the effective length of the transducer arrangement becomes smaller towards higher frequencies by appropriately filtering its transducer signals. The problem is that the sidelobe characteristic of such a directional pattern is also frequency-dependent. Transducer arrays having an equal number of transducers are provided on the transducer arrangement and allocated to adjoining frequency bands covering the frequency range. The transducers of one transducer array have equal distances from one another and are arranged in accordance with the smallest halfwave length in the frequency band allocated to the transducer array. When the frequency range is divided into octaves, the distances are in each case halved for the transducer array allocated to the next higher octave so that the entire multiplicity of transducers in the transducer arrangement can be reduced. The transducer arrangement is particularly effectively used in underwater sound engineering for trailing antennas.

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G10K 11/34

IPC 8 full level
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