

Title (en)
Direction-finding antenna system.

Title (de)
Peilantennensystem.

Title (fr)
Système d'antenne radiogoniométrique.

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Application
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Abstract (en)
In a direction-finding antenna system comprising an array of elements (1-8) mutually spaced in at least one direction and feeder means for forming sum and difference radiation patterns, the contribution of outer elements (1,5;4,8) lying beyond the phase centres of the sub-arrays from which the sum pattern is formed, relative to the contribution of inner elements (2,6;3,7), is less to the difference pattern than to the sum pattern, in order that the magnitude of the difference pattern should exceed that of the sum pattern except in the region of the central null in the difference pattern. The invention is particularly applicable to a curved array of relatively small aperture, such as an IFF array mounted on a parabolic radar antenna reflector operating at a much higher frequency.

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H01Q 5/45 (2015.01); **H01Q 19/19** (2013.01); **H01Q 25/02** (2013.01)

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