

Title (en)  
ELECTRONICALLY SCANNED PHASED-ARRAY ANTENNA

Publication  
**EP 0207511 A3 19871104 (DE)**

Application  
**EP 86109023 A 19860702**

Priority  
DE 3524148 A 19850705

Abstract (en)  
[origin: US4734700A] An omni-directional scanning group antenna with electronically phase-control beam for precise target locating or target tracking comprising a plurality of line fed individual radiators (1) distributed within the volume of an imaginary three-dimensional body (2) such as a sphere which is divided into eight separate sub-volumes V1 through V8 forming octants wherein the signals SV1 through SV8 of the octants are combined with a circuit (4) comprising eleven sum-difference elements so as to form one sum signal, one elevation difference signal and two azimuth difference signals. The invention is suitable for application in three-dimensional phase-array antennas for all-around scanning with precise target locating and target tracking.

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**H01Q 3/26** (2013.01 - EP US); **H01Q 25/02** (2013.01 - EP US)

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