

Title (en)
ELECTRONICALLY SCANNED PHASED-ARRAY ANTENNA

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EP 0207511 B1 19910724 (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)

Cited by
DE4002522A1; US6175330B1; US5625160A; EP0374008A1; FR2640821A1; US5038149A

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