

Title (en)

Microwave devices for controlling the direction of a beam.

Title (de)

Mikrowellenvorrichtungen zum Steuern der Richtung einer Strahlungskeule.

Title (fr)

Dispositifs microondes pour commande d'un faisceau.

Publication

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Application

**EP 92301523 A 19920224**

Priority

GB 9106106 A 19910322

Abstract (en)

A microwave beam steering device comprises a block (1) of ferromagnetic material across which a magnetic field gradient is applied, using coils (9N, 9S, 11N, 11S) within the block. Microwave radiation incident on the block in a direction perpendicular to the field gradient is deflected, the direction (  $\theta$  ) and extent of deflection being dependent on the magnetic field. <IMAGE>

IPC 1-7

**H01Q 3/44**

IPC 8 full level

**H01Q 3/44** (2006.01)

CPC (source: EP)

**H01Q 3/44** (2013.01)

Citation (search report)

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- [X] WO 8401669 A1 19840426 - HUGHES AIRCRAFT CO [US]
- [A] US 2921308 A 19600112 - HANSEN ROBERT C, et al
- [A] IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. vol. 16, no. 2, March 1968, NEW YORK US pages 180 - 186; SCHILLER ET AL.: 'An Electronically Scanned Array at Millimeter Wavelengths Employing Ferrite Apertures'
- [A] IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. vol. 23, no. 1, January 1975, NEW YORK US pages 15 - 20; STERN ET AL.: 'Ferroscon:Toward Continuous-Aperture Scanning'

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