

Title (en)

Dipole fed open cavity antenna.

Title (de)

Offene Hohlraumantenne mit Dipolspeisung.

Title (fr)

Source rayonnante à cavité ouverte excitée par un dipole.

Publication

**EP 0014635 A1 19800820 (FR)**

Application

**EP 80400139 A 19800129**

Priority

FR 7902767 A 19790202

Abstract (en)

[origin: US4313122A] A microwave radiator comprises a generally cup-shaped, at least partly metallic cavity with a cylindrical wall and an open end which is bounded by an edge or rim with two diametrically opposite axial projections, in the form of acute-angled cusps or rectangular teeth, which are bisected by an axial plane perpendicular to a dipole disposed inside the cavity. The open cavity end may be covered by a dielectric radome of frustoconical or stepped cylindrical configuration.

Abstract (fr)

Source hyperfréquence à cavité dont l'ouverture présente deux salles (10) s'avancant dans la direction de rayonnement et opposées sur un diamètre perpendiculaire aux brins (4) du dipôle (2) d'excitation. La cavité peut être recouverte par une coiffe diélectrique creuse (12). Utilisation dans les antennes-réseaux.

IPC 1-7

**H01Q 13/18**; **H01Q 1/42**; **H01Q 1/38**

IPC 8 full level

**H01Q 1/42** (2006.01); **H01Q 9/06** (2006.01); **H01Q 13/18** (2006.01)

CPC (source: EP US)

**H01Q 1/42** (2013.01 - EP US); **H01Q 9/065** (2013.01 - EP US); **H01Q 13/18** (2013.01 - EP US)

Citation (search report)

- GB 721098 A 19541229 - GEN ELECTRIC
- FR 1091260 A 19550408 - GEN ELECTRIC CO LTD
- US 3381371 A 19680507 - RUSSELL EARL D
- DE 2542213 A1 19770324 - SIEMENS AG
- US 3781898 A 19731225 - HOLLOWAY A
- [A] US 3778838 A 19731211 - CLAVIN A
- [A] US 3534376 A 19701013 - WOO KENNETH E

Cited by

FR2538624A1; EP0071069A3; EP0162506A1; EP0427131A3; WO2018231283A1; US10985454B2; US11888220B2

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DOCDB simple family (application)

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