

Title (en)

RADIATING SOURCE CONSTITUTED BY A DIPOLE EXCITED BY A WAVEGUIDE, AND ITS USE IN AN ELECTRONIC SCANNING ANTENNA

Publication

EP 0017530 B1 19830511 (FR)

Application

EP 80400342 A 19800314

Priority

FR 7907801 A 19790328

Abstract (en)

[origin: US4298878A] Disclosed is a radiating source formed by a dipole excited by a flat waveguide which is rectangular in section and is formed by a dielectric sheet having the shape of a rectangular prism whose major and minor faces are each covered with a metal layer of lesser length. The two major faces parallel to the longitudinal midplane are each extended toward the end of the dielectric sheet by means of a metal tongue terminating in one of the stems of the dipole. These stems may be parallel or perpendicular to the direction of polarization of the electric wave radiated by the guide.

IPC 1-7

H01Q 9/16; **H01Q 13/06**; **H01Q 3/26**

IPC 8 full level

H01Q 1/38 (2006.01); **H01Q 3/38** (2006.01); **H01Q 9/16** (2006.01); **H01Q 13/06** (2006.01)

CPC (source: EP US)

H01Q 1/38 (2013.01 - EP US); **H01Q 3/38** (2013.01 - EP US); **H01Q 9/16** (2013.01 - EP US); **H01Q 13/06** (2013.01 - EP US)

Cited by

US4710775A

Designated contracting state (EPC)

BE DE GB IT LU NL SE

DOCDB simple family (publication)

EP 0017530 A1 19801015; **EP 0017530 B1 19830511**; DE 3063029 D1 19830616; FR 2452804 A1 19801024; FR 2452804 B1 19830610; US 4298878 A 19811103

DOCDB simple family (application)

EP 80400342 A 19800314; DE 3063029 T 19800314; FR 7907801 A 19790328; US 13388380 A 19800325