

Title (en)
Cavity Antenna

Title (de)
Hohlraumantenne

Title (fr)
Antenne de type à cavité

Publication
EP 0527714 B1 19960515 (EN)

Application
EP 92850148 A 19920617

Priority
SE 9102349 A 19910812

Abstract (en)
[origin: EP0527714A1] The invention provides a cavity antenna (1) and is suitable, for example, for application as a communication antenna. The antenna (1) comprises a cavity (2) with dielectric (7), an aperture (4) arranged in front of the cavity (2), and a feed element (5). According to the invention, the dielectric (7) is provided with hollow spaces (14) containing electrically conducting shells (15). By introducing such a dielectric, the radar target cross-section of the antenna can be reduced and the antenna is made less space-consuming and lighter.

IPC 1-7
H01Q 13/02; **H01Q 15/10**

IPC 8 full level
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CPC (source: EP)
H01Q 1/42 (2013.01); **H01Q 13/18** (2013.01); **H01Q 19/09** (2013.01)

Citation (examination)
PATENT ABSTRACTS OF JAPAN, vol 9, No 193 (E-334) abstract of JP 60-062202, publ. 10 April 1985, MURATA SEISAKUSHO K.K

Cited by
CN103975484A; US8797222B2; US10158167B2; WO2024028432A1; WO2013067638A1

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