

Title (en)
HIGH-FREQUENCY DUAL-BAND FEEDER AND ANTENNA INCORPORATING THE SAME

Publication
EP 0057121 B1 19870415 (FR)

Application
EP 82400050 A 19820112

Priority
FR 8101286 A 19810123

Abstract (en)
[origin: CA1176368A] A TWO-BAND MICROWAVE SOURCE AND AN ANTENNA EQUIPPED WITH SAID SOURCE A wide-band multimode microwave source for low-elevation tracking radar antennas consists of two independent multimode sources each capable of operating within a low-frequency band or a high-frequency band and mechanically coupled together by constructing the highfrequency-band source within the interior of an obstacle constituting the E-plane modor of the low-frequency-band source in order to ensure that the planes of polarization of the two sources are at right angles to each other. A lens which is transparent in the low-frequency band extends the Rayleigh zone of the high-frequency-band source to the interior of the Fraunhoffer zone of the low-frequency-band source.

IPC 1-7
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IPC 8 full level
H01Q 13/02 (2006.01); **H01Q 5/00** (2006.01); **H01Q 19/08** (2006.01); **H01Q 19/10** (2006.01); **H01Q 25/04** (2006.01)

CPC (source: EP US)
H01Q 5/45 (2015.01 - EP US); **H01Q 25/04** (2013.01 - EP US)

Cited by
US4740795A; EP0148136A1; EP0130111A1; FR2547956A1

Designated contracting state (EPC)
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EP 0057121 A2 19820804; **EP 0057121 A3 19820811**; **EP 0057121 B1 19870415**; AT E26628 T1 19870515; CA 1176368 A 19841016; DE 3276092 D1 19870521; DK 21482 A 19820724; FR 2498820 A1 19820730; FR 2498820 B1 19850104; JP S57142005 A 19820902; US 4489331 A 19841218

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EP 82400050 A 19820112; AT 82400050 T 19820112; CA 394580 A 19820121; DE 3276092 T 19820112; DK 21482 A 19820119; FR 8101286 A 19810123; JP 873382 A 19820122; US 34158082 A 19820121