

Title (en)

PRIMARY HORN FOR PARABOLIC-REFLECTOR ANTENNA

Publication

**EP 0518663 A3 19940824 (EN)**

Application

**EP 92305353 A 19920611**

Priority

JP 16932191 A 19910614

Abstract (en)

[origin: EP0518663A2] A parabolic-reflector antenna has a primary horn (13) including first (21), second (22), and third (23) hollow portions. The first hollow portion (21) has an elliptical aperture on one end thereof and a circular cross section on an opposite end thereof, and is progressively tapered away from the elliptical aperture. The second hollow portion (22) has a circular cross section and a constant diameter, and is joined to the opposite end of the first hollow portion (21). The third hollow portion (23) has a circular cross section on one end thereof and a circular cross section on an opposite end thereof. The third hollow portion (23) is joined to the second hollow portion (22), and is progressively tapered away from the second hollow portion (22). The parabolic-reflector antenna also includes a parabolic reflector (12) having an elliptical aperture whose major axis is perpendicular to the major axis of the elliptical aperture of the primary horn (13). <IMAGE>

IPC 1-7

**H01Q 19/13**; **H01Q 13/02**

IPC 8 full level

**H01Q 13/02** (2006.01); **H01Q 19/12** (2006.01); **H01Q 19/13** (2006.01); **H01Q 25/04** (2006.01)

CPC (source: EP)

**H01Q 13/0225** (2013.01); **H01Q 19/132** (2013.01)

Citation (search report)

- [A] US 4731616 A 19880315 - FULTON DAVID A [US], et al
- [A] GB 1525514 A 19780920 - RUDGE A, et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 7, no. 40 (E - 159)<1185> 17 February 1983 (1983-02-17)

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