

Title (en)
Omnidirectional cylindrical antenna.

Title (de)
Zylindrische Rundstrahlantenne.

Title (fr)
Antenne omnidirectionnelle cylindrique.

Publication
EP 0205393 A1 19861217 (FR)

Application
EP 86460010 A 19860604

Priority
FR 8508840 A 19850610

Abstract (en)
The array antenna with rotational symmetry consists of an array of elementary antennas in a cylindrically shaped printed circuit. <??>It is made up of small-sized radiating sources which are arranged on a cylindrical surface in overlying circles. The sources are distributed angularly over the circles with a constant angular pitch. There is weak coupling between them. For each circle of sources, all the sources are supplied in phase and with the same amplitude. <??>An angular shift may be provided between the set of sources of one circle and that of the sources of the next circle. The antenna can be supplied via a three-wafer printed circuit line. It can consist of an array of doublets bent into wafers. The transmitter (24), to which is applied the video signal to be transmitted and which supplies the modulated carrier to the array of radiating sources, is installed inside the cylinder.
<IMAGE>

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H01Q 21/20

IPC 8 full level
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CPC (source: EP US)
H01Q 21/205 (2013.01 - EP US); **Y10S 343/02** (2013.01 - EP US)

Citation (search report)

- [Y] DE 1297707 B 19690619 - ROHDE & SCHWARZ
- [A] FR 2092676 A1 19720128 - TRUSKANOV DAVID, et al
- [A] FR 1099513 A 19550906 - THOMSON HOUSTON COMP FRANCAISE
- [A] US 3936836 A 19760203 - WHEELER MYRON S, et al
- [YD] L'ONDE ELECTRIQUE, vol. 61, no. 4, 1981, pages 34-41, Masson, Paris, FR; G. DUBOST et al.: "Réseau de doublets repliés symétriques en plaques, à large bande autour de 12 GHz"
- [A] AP-S INTERNATIONAL SYMPOSIUM 1979, INTERNATIONAL SYMPOSIUM DIGEST ANTENNAS AND PROPAGATION, vol. 2, juin 1979, Seattle, Washington, US, pages 489-493, IEEE, New York, US; J.D. MARTINKO: "International sun-earth explorers medium gain antenna systems for the A&C missions"
- [A] AP-S INTERNATIONAL SYMPOSIUM DIGEST ANTENNAS AND PROPAGATION, 1975, Urbana, IL, pages 177-180, IEEE, New York, US; H.D. WEINSCHTEL: "A cylindrical array of circularly polarized microstrip antenna"

Cited by
EP1056154A1; AU759468B2; EP0598656A1; FR2698212A1; US5434581A

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DE FR GB NL SE

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