

Title (en)

An arrangement for radiating rf signals from a radio transmitter

Title (de)

Vorrichtung zur Übertragung von HF-Signalen von einem Funksender

Title (fr)

Agencement d' émission des signaux radiofréquences par émetteur radio

Publication

EP 1309033 A3 20040825 (EN)

Application

EP 02023476 A 20021021

Priority

GB 0126222 A 20011101

Abstract (en)

[origin: EP1309033A2] An arrangement for radiating RF signals from a radio transmitter which comprises an antenna and an electrical isolator connected to the antenna for isolating the antenna from the transmitter, wherein the isolator includes a conducting elongate element along which RF electrical signals are fed in use, and further conductors which are not electrically connected to the elongate element, the further conductors comprising first and second conducting layers arranged with the elongate element extending between them and third and fourth conducting layers arranged with the first and second layers extending between them, the further conductors forming in use an electromagnetic shield to RF electrical signals passing along the elongate element, the antenna being connected to the elongate member of the isolator. <??>The layers of the isolator may be planar. The total combined effective electrical length of the first and third layers along an axis of the isolator and the total combined effective electrical length of the second and fourth layers along the axis of the isolator may be or approximate to 0.5λ , where λ is the mean wavelength of RF electrical signals to be passed in use along the elongate element. The effective electrical length of each of the first, second, third and fourth layers along the axis may be or approximate to 0.25λ . <IMAGE>

IPC 1-7

H01P 3/08; H01Q 9/16; H01Q 9/30; H01Q 1/52

IPC 8 full level

H01P 3/08 (2006.01)

CPC (source: EP)

H01P 3/088 (2013.01)

Citation (search report)

- [X] DE 2441190 B1 19750925 - DORNIER SYSTEM GMBH [DE]
- [A] EP 1150311 A2 20011031 - TDK CORP [JP]
- [A] US 5949383 A 19990907 - HAYES GERARD JAMES [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 301 (E - 785) 11 July 1989 (1989-07-11)

Cited by

CN102509883A; US7741943B2; US7791900B2; US7852186B2; US7948067B2; US8305233B2; US8093983B2

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EP 1309033 A2 20030507; **EP 1309033 A3 20040825**; GB 0126222 D0 20020102; GB 2382231 A 20030521; GB 2382231 B 20031224

DOCDB simple family (application)

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