

Title (en)

Non-contact coupling through a dielectric

Title (de)

Kontaktlose Kopplung durch ein Dielektrikum

Title (fr)

Couplage sans contact à travers un diélectrique

Publication

EP 0892456 A1 19990120 (EN)

Application

EP 98305745 A 19980717

Priority

GB 9715110 A 19970717

Abstract (en)

The present invention relates to a system for transmitting radio frequency energy through a dielectric (5), for example through a plastics wall of an equipment containing box, and to an antenna assembly including the system for transmitting radio frequency energy through the dielectric. A non-contact connection through a dielectric (5) comprising a pair of counter-wound conductive spirals (1,2) provided on opposite sides of the dielectric (5), is characterised in that a pair of ground planes (8,9) sandwich the conductive spirals (1,2) and the dielectric (5). <IMAGE>

IPC 1-7

H01Q 1/12; **H01Q 1/24**

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 1/24** (2006.01)

CPC (source: EP)

H01Q 1/1285 (2013.01); **H01Q 1/24** (2013.01)

Citation (search report)

- [X] US 5105201 A 19920414 - NAKASE KAZUHIKO [JP], et al
- [X] FR 2643749 A1 19900831 - DX ANTENNA [JP]
- [A] US 4621243 A 19861104 - HARADA TAKUJI [JP]
- [A] EP 0645838 A2 19950329 - NIPPON STEEL CORP [JP], et al

Cited by

US2015349612A1; US7193572B2; WO0079644A1; WO0079641A3

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