

Title (en)
Device for camouflaging antennas.

Title (de)
Vorrichtung zur Tarnung von Antennen.

Title (fr)
Dispositif de camouflage d'antennes.

Publication
EP 0669674 A1 19950830 (DE)

Application
EP 94119638 A 19941213

Priority
DE 4405996 A 19940224

Abstract (en)
The cloaking device uses an electromagnetically non-reciprocal component, arranged in the path of the incident microwaves in front of the antenna. The non-reciprocal component has 2 polarisation layers offset relative to one another by 45 degrees. Pref. the non-reciprocal component is provided by a radome at a given spacing from the antenna, having a magneto-optical layer (4) enclosed by an annular magnet (5), with a polarisation layer on each side of the magneto-optical layer, exhibiting a high transparency for a given linear polarisation direction and a high absorption for the perpendicular polarisation direction.

Abstract (de)
Die Vorrichtung zur Tarnung von Antennen gegen die Ortung durch Mikrowellen besteht aus einem elektromagnetisch nicht-reziproken Bauelement, das in Einfallsrichtung der Mikrowellen gesehen, vor der Antenne angeordnet ist. <IMAGE>

IPC 1-7
H01Q 17/00

IPC 8 full level
H01Q 15/00 (2006.01); **H01Q 15/14** (2006.01); **H01Q 15/22** (2006.01); **H01Q 17/00** (2006.01)

CPC (source: EP)
H01Q 15/0013 (2013.01); **H01Q 15/148** (2013.01); **H01Q 15/22** (2013.01); **H01Q 17/007** (2013.01)

Citation (search report)

- [A] US 3309704 A 19670314 - KLINGLER EUGENE H
- [A] EP 0517976 A1 19921216 - RAYTHEON CO [US]
- [A] WO 9010958 A1 19900920 - CAMBRIDGE COMPUTER [GB]
- [A] GB 1416343 A 19751203 - SECR DEFENCE
- [A] EP 0568511 A1 19931103 - NOBELTECH ELECTRONICS AB [SE]

Cited by
FR3003700A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0669674 A1 19950830; **EP 0669674 B1 19990224**; DE 4405996 A1 19950831; DE 4405996 C2 19960111; DE 59407846 D1 19990401

DOCDB simple family (application)
EP 94119638 A 19941213; DE 4405996 A 19940224; DE 59407846 T 19941213