

Title (en)

An antenna installation device using a screw type coupling device

Title (de)

Antennenbefestigung mit einer Schraubkupplungsvorrichtung

Title (fr)

Installation d'antenne utilisant un dispositif de couplage de type vis

Publication

EP 0370715 B1 19960612 (EN)

Application

EP 89311967 A 19891120

Priority

- JP 621289 U 19890123
- JP 652589 U 19890125
- JP 15190988 U 19881122

Abstract (en)

[origin: EP0370715A2] A screw type coupling device including a male screw element (M) formed by installing a coil spring helical component (13) on the outer surface of a columnar element and a female screw element (N) formed by installing a coil spring helical component (16) in a tubular element so that the two helical components are screwed its each other and thus connected. The application of such a coupling device to an antenna (11) for vehicles allows the antenna having a male screw element (M) at the base to be removably attached to the vehicle body by screwing the male screw element (M) into the female screw element (N).

IPC 1-7

H01Q 1/12; **F16B 37/12**

IPC 8 full level

H01Q 1/08 (2006.01); **H01Q 1/12** (2006.01)

CPC (source: EP)

H01Q 1/088 (2013.01); **H01Q 1/1214** (2013.01)

Citation (examination)

- GB 189421065 A 18950928 - BOEDDINGHAUS JULIUS [DE]
- US 556082 A 18960310
- FR 1074302 A 19541005
- US 809880 A 19060109 - WOOLLDRIEGE TOM ALFRED [GB], et al
- US 1861532 A 19320607 - HOUGH WILLIAM S
- US 3243755 A 19660329 - JOHNSTON WILLIAM D

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EP0784353A1; US5739793A; EP0736926A1; US5742259A; EP0703636A3; US5274393A; EP0889541A1; FR2765732A1; US5341149A; ES2037607A2; EP0521746A1; FR2678689A1; EP0380231A3; WO9306631A1; WO2007087964A1; WO0117060A1

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