

Title (en)

Rod antenna, in particular for VHF broadcast reception.

Title (de)

Stabantenne, insbesondere für UKW-Rundfunkempfang.

Title (fr)

Antenne tige, en particulier pour recevoir des fréquences de radiodiffusion très élevées.

Publication

EP 0048788 A1 19820407 (DE)

Application

EP 81102262 A 19810326

Priority

DE 3036084 A 19800925

Abstract (en)

[origin: US4375642A] To provide a short FM antenna, of about for example 40 cm length for mobile radio, for example automobile radio application, without degradation of signal strength with respect to an about 1 m long FM antenna, a conically tapering insulating rod, for example of fiberglass, has two windings applied thereover, the two windings, each, having a straight wire length of about 1/4 the median wavelength of the FM band, and the overall length (l) of the rod having said two windings applied thereover being about 1/8 of the median wavelength. The oppositely wound windings (11, 12) are connected at their center, and may be formed as one bifilar winding, with the lower end of the lower winding being connected to an electrical terminal for standard connection to, for example, a coaxial antenna connector for an automobile radio. A spiral spring can be interposed if extreme deflectability of the antenna is desired, for example to prevent damage if the antenna, applied to an automotive vehicle, is passed through a power washing and scrubbing station.

Abstract (de)

Es wird eine Stabantenne vorgeschlagen, die insbesondere für den UKW-Rundfunkempfang dient. Die Stabantenne umfaßt einen zu ihrem oberen Ende hin konisch verjüngten Isolierstoffstab (10), der zwei Wicklungen (11, 12) mit entgegengesetztem Wicklungssinn trägt. Der bewickelte Teil des Isolierstoffstabes hat eine Länge (1) von etwa einem Achtel der mittleren Wellenlänge (λ). Die gestreckten Drahtlängen der beiden Wicklungen betragen je etwa ein Viertel der mittleren Wellenlänge.

IPC 1-7

H01Q 1/32; **H01Q 9/32**

IPC 8 full level

H01Q 1/36 (2006.01); **H01Q 9/30** (2006.01)

CPC (source: EP US)

H01Q 1/362 (2013.01 - EP US); **H01Q 9/30** (2013.01 - EP US)

Citation (search report)

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