

Title (en)
Single wire antenna mast

Title (de)
Eindrahtantennenmast

Title (fr)
Mât d'antenne unifilaire

Publication
EP 1672734 A1 20060621 (EN)

Application
EP 05077720 A 20051125

Priority
US 1658304 A 20041217

Abstract (en)
An antenna mast incorporates a single strand of spring wire wound into a closed coil section at a base or bending fulcrum of the antenna mast. This closed coil section acts as a straight section of wire, for purposes of RF reception characteristics, when the antenna mast is not deflected. A center strand of wire enters and exits the closed coil section from opposite sides, reducing conductive length changes attributable to flexion of the antenna mast. As a result, tuning of the antenna mast to specific frequencies remains relatively stable even when the antenna mast is deflected, for example, by wind deflection forces or by contact with objects.

IPC 8 full level
H01Q 1/00 (2006.01); **H01Q 1/32** (2006.01); **H01Q 1/36** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/357** (2015.01); **H01Q 11/08** (2006.01)

CPC (source: EP)
H01Q 1/005 (2013.01); **H01Q 1/3275** (2013.01); **H01Q 1/362** (2013.01); **H01Q 5/357** (2015.01); **H01Q 11/08** (2013.01)

Citation (search report)
• [X] GB 2400497 A 20041013 - HARADA IND [GB], et al
• [X] DE 4141783 A1 19930624 - KOLBE & CO HANS [DE]
• [X] US 6191747 B1 20010220 - COSENZA JOHN M [US]
• [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03 31 March 1999 (1999-03-31)

Cited by
EP1926175A1; EP2056399A1; EP2685556A1; CN103545593A; US8963786B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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