

Title (en)
Whip antenna.

Title (de)
Stabförmige Funkantenne.

Title (fr)
Antenne fouet.

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Application
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Abstract (en)
[origin: EP0403741A2] The invention is based on the object of developing a known rod- shaped radio antenna, which does not have an approximately circular omnidirectional characteristic when arranged obliquely, such that the antenna operates as an antenna with gain, with a largely circular characteristic, at an inclination angle deviating from the vertical by up to 40 DEG . <??>This object is achieved by an elastic rod (12) of dielectric material being fixedly connected to a spring element (11) and carrying a plurality of coils (SP1 ... SP4) and a radiating part (13). Together with the spring part (11), a first coil (SP1) which is electrically connected to the said spring part (11) has a first length $L1 = \lambda / 4$. A second coil (SP2), connected to the first coil (SP1), has a length $L2 = \lambda / 4$. A third coil (SP3) is wound running backwards from the end of the second coil (SP2) and has a length $L3 = \lambda / 8$. A fourth coil (SP4) is wound from the end of the third coil (SP3) parallel to the second coil (SP2). A radiating part (13), having a length $L4 = 3/8 \lambda$, is connected to the fourth coil (SP4). In this case, λ is the mean operating wavelength of the relevant radio band. <??>A preferred area of application for the rod-shaped radio antenna is the Radio Network C of the German Federal Post Office. <??>The drawing shows a winding layout for the rod-shaped radio antenna. <IMAGE>

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