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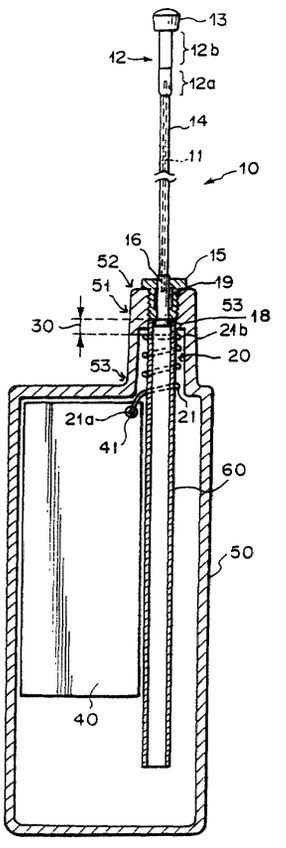
(54) Antenna for radio telephone

(57) Provides an antenna for a radio telephone whereby, in a state wherein a rod-shaped antenna (10) is extended to outside the case (50) of the radio telephone, the effects of the human body are negligible and emission of radio waves at an angle close to the horizontal direction is possible, and in a state wherein the rod-shaped antenna (10) is retracted within the case (50), no unwanted radiation is produced. For this purpose, a helical antenna (20) having an electrical length of λ/4 and the rod-shaped antenna (10) extendable and retractable with respect to the case (50) through the hollow central portion of the helical antenna (20) and having an electrical length of about 3λ/8 and inductive reactance, are electrically coupled by means of an electrostatic coupling portion (30) having capacitive reactance such that, in the state wherein the rod-shaped antenna (10) is extended from the case (50), the inductive reactance of the rod-shaped antenna (10) is canceled out. The length of the bottom portion (12a) of the connecting member (12) is preferably set to a length such that when the rod-shaped antenna (10) is retracted within the case (50), the bottom portion (12a) of the connecting member (12) passes through the helical coil (20) over the entire length thereof, severing electrical coupling between the helical antenna (20) and the rod-shaped antenna (10).

F I G. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 99 11 4696

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TECHNICAL FIELDS SEARCHED (Int.Cl.7)

H01Q

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
MUNICH	19 February 2003	Marot-Lassauzaie, J

CATEGORY OF CITED DOCUMENTS

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