

Title (en)

Antenna system for portable radio apparatus.

Title (de)

Antennensystem für tragbares Funkgerät.

Title (fr)

Système d'antenne pour un appareil radio-électrique portatif.

Publication

**EP 0415703 B1 19950104 (EN)**

Application

**EP 90309385 A 19900828**

Priority

JP 22346089 A 19890829

Abstract (en)

[origin: EP0415703A1] An antenna for a portable radio apparatus has a first antenna construction (12) connected to the casing (11) of the apparatus and a second antenna construction (18) affixed to a base plate or earth plate (17) which is incorporated in the casing. The first antenna construction (12) has a movable joint (14) which allows the first antenna construction (12) to move between a first position where it is regarded as forming a part of the contour of the casing (11) and a second position where it is protruded from the contour and regarded as being located in free space. The second antenna construction (18) corrects the matching state of the first antenna construction (12) such that adequate antenna radiation characteristics are set up in the first position. Optimal antenna characteristics are, therefore, achievable when the first antenna construction is in any one of the first and second positions.

IPC 1-7

**H01Q 1/24**

IPC 8 full level

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CPC (source: EP KR)

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Cited by

CN110416690A; EP1143555A4; US5245350A; US6249688B1; US5898933A; GB2293278A; GB2293278B; US5809433A; EP0611199A1; FR2701613A1; US5613224A; GB2293275A; FR2724771A1; US5561437A; GB2293275B; CN1071531C; US6947762B1; US6301489B1; US6232924B1; US7639187B2; WO2008039255A3; WO0038274A1; WO0005780A1

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**EP 0415703 A1 19910306**; **EP 0415703 B1 19950104**; AU 6192590 A 19910307; AU 640404 B2 19930826; CA 2024180 A1 19910301; CA 2024180 C 19950613; DE 69015739 D1 19950216; DE 69015739 T2 19950817; JP 2919024 B2 19990712; JP 3202690 B2 20010827; JP H03219703 A 19910927; JP H11186824 A 19990709; KR 910005511 A 19910330; KR 920010205 B1 19921121

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