

Title (en)

Antenna for portable radio equipment

Title (de)

Antenne für tragbares Funkgerät

Title (fr)

Antenne pour appareil radio portable

Publication

EP 0459391 B1 19970219 (EN)

Application

EP 91108683 A 19910528

Priority

JP 13712590 A 19900529

Abstract (en)

[origin: EP0459391A2] An antenna (10) for portable radio equipment serves as a $\lambda/2$ wavelength long antenna when extended (Fig.1A) or as a less than $\lambda/4$ wavelength long antenna such as a $\lambda/8$ wavelength long antenna when contracted (Fig.1B). Both of such antenna configurations are matched by a single matching circuit (14) with respect to impedance. The antenna radiates power efficiently in the horizontal plane. <IMAGE> <IMAGE>

IPC 1-7

H01Q 1/10; **H01Q 1/24**

IPC 8 full level

H01Q 9/14 (2006.01); **H01Q 1/10** (2006.01); **H01Q 1/24** (2006.01)

CPC (source: EP)

H01Q 1/10 (2013.01); **H01Q 1/242** (2013.01); **H01Q 1/244** (2013.01)

Citation (examination)

- US 4890114 A 19891226 - EGASHIRA YOSHIMI [JP]
- EP 0359361 A1 19900321 - ALLIANCE RESEARCH CORP [US]
- EP 0323726 A2 19890712 - NIPPON ANTENNA KK [JP]
- PATENT ABSTRACT OF JAPAN, vol. 9, no. 244 (E346) 25 May 1985 & JP-A-60 94 507

Cited by

EP1603310A1; FR2773289A1; EP0508836A1; GB2324658A; GB2324658B; EP0609103A1; US5455595A; US7158085B2; WO9723014A1

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EP 0459391 A2 19911204; **EP 0459391 A3 19920304**; **EP 0459391 B1 19970219**; AU 640787 B2 19930902; AU 7804191 A 19911205; CA 2043321 A1 19911130; CA 2043321 C 19970819; DE 69124714 D1 19970327; DE 69124714 T2 19970626; JP H0432305 A 19920204

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