

Title (en)

Portable transceiver apparatus with low irradiation of the user, employing an antenna having an asymmetric radiation pattern

Title (de)

Tragbares Funkgerät mit geringer Einstrahlung zum Benutzer mit einem asymmetrischen Antennenstrahlungsdiagramm

Title (fr)

Radio émetteur-récepteur portable à faible irradiation électromagnétique de l'utilisateur et comportant une antenne ayant un diagramme de rayonnement asymétrique

Publication

EP 0588271 B1 19980506 (EN)

Application

EP 93114643 A 19930911

Priority

IT MI922146 A 19920918

Abstract (en)

[origin: EP0588271A1] The present invention relates to a portable transceiver apparatus, in particular a radiomobile telephone set, with low irradiation of the user, comprising a handset and an antenna, having an asymmetric radiation pattern, applied to said handset. Since such apparatuses, when in use, are placed alongside the user's head, a great amount of electromagnetic waves pass through it, in particular with the continuous increase in the transmission frequency and the consequent decrease in the dimension of the antenna the irradiation of the user's head is and will become a serious problem. The aim of the invention is to provide a portable transceiver apparatus so as to minimize the irradiation of its user. By using an antenna having an asymmetric irradiation pattern such as to be extremely limited in the directions of the user's head, a greatly reduced irradiation can be obtained. <IMAGE>

IPC 1-7

H04B 1/38; H01Q 1/24

IPC 8 full level

H01Q 1/24 (2006.01)

CPC (source: EP)

H01Q 1/245 (2013.01)

Cited by

CN110501614A; EP0763265A4; EP0638955A1; US6034638A; US6005525A; NL9302192A; AU686214B2; US5802458A; US6300917B1; US6369776B1; US6552693B1; WO9502284A1; US6288682B1; US6690336B1; US6181297B1; WO9903167A1; WO9428595A1; WO9905753A1; WO9744911A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

EP 0588271 A1 19940323; EP 0588271 B1 19980506; AT E165942 T1 19980515; AU 4607593 A 19940324; AU 668748 B2 19960516; DE 69318361 D1 19980610; DE 69318361 T2 19990401; DK 0588271 T3 19981007; ES 2116378 T3 19980716; IT 1255602 B 19951109; IT MI922146 A0 19920918; IT MI922146 A1 19940318; NZ 248624 A 19960126

DOCDB simple family (application)

EP 93114643 A 19930911; AT 93114643 T 19930911; AU 4607593 A 19930903; DE 69318361 T 19930911; DK 93114643 T 19930911; ES 93114643 T 19930911; IT MI922146 A 19920918; NZ 24862493 A 19930909