

Title (en)

Antenna array calibration

Title (de)

Kalibrierung einer Gruppenantenne

Title (fr)

Etallage d'un réseau d'antennes

Publication

EP 1178562 A1 20020206 (EN)

Application

EP 00116208 A 20000803

Priority

EP 00116208 A 20000803

Abstract (en)

The invention relates to a method and a system for calibrating the reception and transmission of an antenna array for use in a cellular communication system. The calibration of the reception of the antenna array is performed by injecting a single calibration signal into each of a number of receiving antenna sections, in parallel. The signals are collected after having passed receiving components that might have distorted the phase and amplitude. Correction factors are generated and applied to received signals. The calibration of the transmission of the antenna array is performed in a similar way. A single calibration signal is generated and injected into each of a number of transmitting antenna sections, one at a time. The signals are collected, one at a time, after having passed transmitting components that might have distorted the phase and amplitude. Correction factors are generated and applied to signals that are to be transmitted. <IMAGE>

IPC 1-7

H01Q 3/26

IPC 8 full level

H01Q 3/26 (2006.01)

CPC (source: EP)

H01Q 3/267 (2013.01)

Citation (search report)

- [XAY] GB 2342505 A 20000412 - TELECOM MODUS LIMITED [GB], et al
- [X] EP 0938204 A1 19990825 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [X] EP 0881704 A2 19981202 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [Y] WO 9534103 A1 19951214 - ERICSSON TELEFON AB L M [SE], et al
- [DY] US 5248982 A 19930928 - REINHARDT VICTOR S [US], et al
- [A] EP 0805510 A2 19971105 - HUGHES AIRCRAFT CO [US]

Cited by

EP1335450A4; KR20040052064A; CN113726453A; CN113765600A; CN107210798A; CN111181617A; CN102870277A; US11411624B2; EP1791277A1; GB2467772B; US7106249B2; US2021063534A1; US8441966B2; US9654153B2; US8340612B2; JPWO2021019885A1; EP4007069A4; WO2020043310A1; WO03009420A1; WO2011121033A1; WO2016119853A1; US8009095B2; US9113346B2; US11942694B2; US11990683B2; US8311166B2; US11757183B2; US7292877B2; US8976845B2; TWI451704B; WO2007060069A1; WO03090386A1; WO2010092076A1; WO2022271066A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 1178562 A1 20020206

DOCDB simple family (application)

EP 00116208 A 20000803