

Title (en)  
CALIBRATION METHOD AND ACTIVE ANTENNA

Title (de)  
KALIBRATIONSVERFAHREN UND AKTIVANTENNE

Title (fr)  
PROCÉDÉ D'ÉTALONNAGE ET ANTENNE ACTIVE

Publication  
**EP 2270923 A1 20110105 (EN)**

Application  
**EP 09839841 A 20090422**

Priority  
CN 2009071412 W 20090422

Abstract (en)  
A calibration method and an active antenna are provided. The active antenna includes K antenna dipole arrays, 1 st to K th transceiver unit arrays corresponding to the antenna dipole arrays, 1 st to K th calibrators, a feature difference calculating unit, and baseband processing modules. The 1 st to K th calibrators are configured to obtain P feature difference values between P calibration signals passing through all calibration loops of the active antenna and an original calibration signal. The feature difference calculating unit is configured to calculate a feature difference value of a receiving channel and/or transmitting channel of each transceiver unit relative to a reference receiving channel and/or transmitting channel respectively. Each baseband processing module is configured to perform feature compensation on a service signal of the corresponding transceiver unit in a digital domain. Therefore, feature differences between all transceivers respectively disposed on a plurality of boards of the transceiver arrays can be calculated, so as to realize accurate calibration on transceiver arrays when the transceiver arrays are distributed on a plurality of boards.

IPC 8 full level  
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CPC (source: EP)  
**H01Q 1/246** (2013.01); **H01Q 3/267** (2013.01); **H01Q 21/062** (2013.01); **H01Q 21/24** (2013.01)

Cited by  
GB2519946A; US10164334B2; US9692530B2; US10224642B2; WO2014169934A1; WO2015062761A1; WO2022260949A1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

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AL BA RS

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