Title (en)
  Phased array antenna apparatus

Title (de)
  Phasengesteuerte Gruppenantenne

Title (fr)
  Réseau d'antennes à commande de phase

Publication
  EP 1804334 A1 20070704 (EN)

Application
  EP 05078009 A 20051227

Priority
  EP 05078009 A 20051227

Abstract (en)
  A phased array antenna is calibrated by obtaining time-dependent signals from respective ones of the antenna outputs and computing Hilbert transforms of the time dependent signals. Products of complex signals formed from the time dependent signals and their Hilbert transforms are computed. Phase correction factors for the antenna outputs are estimated from the products. The estimated phase correction factors are used to set phase corrections applied to signals from the antenna outputs.

IPC 8 full level
  H01Q 3/26 (2006.01)

CPC (source: EP)
  H01Q 3/267 (2013.01)

Citation (applicant)
  S.L. HAHN: "HILBERT TRANSFORMS IN SIGNAL PROCESSING", 1996, ARTECH HOUSE, INC.

Citation (search report)
  • [Y] US 6462704 B2 20021008 - REXBERG LEONARD [SE], et al
  • [Y] US 5187719 A 19930216 - BIRGENHEIER RAYMOND A [US], et al
  • [A] US 5187486 A 19930216 - KOELZER PETER [DE]

Cited by
  CN112526430A

Designated contracting state (EPC)
  AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
  AL BA HR MK YU

DOCDB simple family (publication)
  EP 1804334 A1 20070704; AT E450903 T1 20091215; DE 602006010907 D1 20100114; EP 1969673 A1 20080917; EP 1969673 B1 20091202; WO 2007075083 A1 20070705

DOCDB simple family (application)
  EP 05078009 A 20051227; AT 06843925 T 20061227; DE 602006010907 T 20061227; EP 06843925 A 20061227; NL 2006000668 W 20061227