

Title (en)

PHASE-SHIFT CONTROL FOR A PHASED ARRAY ANTENNA

Publication

EP 0137562 A3 19850612 (EN)

Application

EP 84201399 A 19841002

Priority

NL 8303444 A 19831007

Abstract (en)

[origin: EP0137562A2] In a phase-shift control for a phased array antenna the antenna modules are arranged in rows and columns. The phase shift control is provided with central computing means for calculating from the beam direction to be determined and the frequency of the energy emitted, the terms in the mathematical expression for the phase setting for the separate phase shifters in the antenna modules, which terms are the same for all phase shifters, and a computing chip present in each antenna module for determining the desired phase setting from the terms determined by the central computing means and the position of the separate phase shifters in the array.

IPC 1-7

H01Q 3/36

IPC 8 full level

H01Q 3/36 (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] US 4217587 A 19800812 - JACOMINI OMAR J [US]
- [A] US 3697994 A 19721010 - O'DANIEL STEPHEN A
- [A] FR 2235503 A1 19750124 - SIEMENS AG [DE]
- [A] US 3699584 A 19721017 - HRIVNAK GEORGE A, et al
- [A] GB 1163215 A 19690904 - GEN ELECTRIC & ENGLISH ELECT [GB]
- [A] PATENTS ABSTRACTS OF JAPAN, Vol. 5, No. 129, August 19, 1981, page E70-801. & JP-A-56 065 504 (MITSUBISHI DENKI K.K.) 03.06.1981

Cited by

US6573875B2; US6987487B2; US6538619B2; US6567051B2; US6590546B2; US6603436B2; US6600457B2; FR2617647A1; DE3521026A1; EP0416264A3; CN1316835C; EP0921591A1; EP0357165A3; US6677896B2; WO9101620A3; US6198458B1; US6346924B1; US8558739B2

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