

Title (en)
ANTENNA-FEEDING SYSTEM FOR A TRACKING ANTENNA

Publication
EP 0041077 B1 19850220 (DE)

Application
EP 80108118 A 19801222

Priority
DE 3020514 A 19800530

Abstract (en)
[origin: US4365253A] In a feeder system associated with an antenna for transmitting circularly polarized signals and for receiving a circularly polarized beacon signal, which system includes an exciter having an aperture whose cross section is symmetrical to at least one major axis of the aperture, the exciter being arranged to excite higher modes of the beacon signal as a function of deviations of the axis of the beacon signal from the major axes of the antenna radiation pattern, and a device for coupling the higher modes to produce deviation signals providing information for positioning the antenna in order to eliminate such deviations, the system further includes a polarization converter containing amplitude and phase compensating components and connected between the exciter and the coupling device for conducting electromagnetic signals therebetween, and the coupling device includes a polarization filter connected to the converter for separating signals into components having mutually orthogonal polarization directions, the filter being provided with a respective communications signal input/output port and a respective deviation signal output port for signal components having each polarization direction.

IPC 1-7
H01P 1/16; H01P 1/213

IPC 8 full level
H01P 1/17 (2006.01); **H01P 1/16** (2006.01); **H01P 1/165** (2006.01); **H01P 1/213** (2006.01); **H01Q 13/02** (2006.01); **H01Q 25/00** (2006.01); **H01Q 25/04** (2006.01)

CPC (source: EP US)
H01P 1/16 (2013.01 - EP US); **H01P 1/2131** (2013.01 - EP US)

Cited by
EP0116418A3; DE3604432A1; EP0374720A3; EP0096461A3; DE102008044895B4; EP0880193A1; FR2763749A1; US6166699A; US5066959A; EP0128970A1; US4630059A; US7304552B2; WO9810479A1

Designated contracting state (EPC)
DE FR GB NL SE

DOCDB simple family (publication)
EP 0041077 A2 19811209; EP 0041077 A3 19811216; EP 0041077 B1 19850220; CA 1164088 A 19840320; DE 3020514 A1 19811210; DE 3070235 D1 19850328; JP H0369201 B2 19911031; JP S5724105 A 19820208; US 4365253 A 19821221

DOCDB simple family (application)
EP 80108118 A 19801222; CA 378602 A 19810529; DE 3020514 A 19800530; DE 3070235 T 19801222; JP 8244281 A 19810529; US 26837781 A 19810529