

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

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CPC (source: EP US)

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Cited by

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