

Title (en)
Gyro-stabilized seeking device

Title (de)
Kreiselstabilisierter Sucher

Title (fr)
Autodirecteur stabilisé par effet gyroscopique

Publication
EP 0412411 B1 19960605 (DE)

Application
EP 90114678 A 19900731

Priority
• DE 3925942 A 19890807
• DE 3938705 A 19891117
• DE 3940512 A 19891207

Abstract (en)
[origin: US5077465A] A gyro-stabilized seeker comprises a rotor which is mounted universally movably about a central point and arranged to be driven about a rotor-fixed axis of rotation passing through the central point, as well as an imaging optical system on the rotor which is arranged to image a field of view in a plane perpendicular to the axis of rotation of the rotor. Detector means (130) for generating target signals are located in this plane. The detector means are arranged at a structure-fixed heat-insulating cooler housing (120) and are cooled by a cooler. The axis of rotation is aligned to a target. A convexo-spherical bearing surface (124) is structure-fixedly attached to the cooler housing (120). The detector means (130) are located on a carrier (128) which is universally pivotably mounted on this convexo-spherical bearing surface (124) and are aligned by a rotor carrier (106) according to the axis of rotation of the rotor. The convexo-spherical bearing surface (124) is connected to the cooler housing (120) through resilient connecting means (156) permitting alignment of the central point of the bearing surface to the central point of the rotor bearing.

IPC 1-7
F41G 7/22; F25D 19/00

IPC 8 full level
F25D 19/00 (2006.01); **F41G 7/22** (2006.01)

CPC (source: EP US)
F25D 19/006 (2013.01 - EP US); **F41G 7/2213** (2013.01 - EP US); **F41G 7/2253** (2013.01 - EP US); **F41G 7/2293** (2013.01 - EP US)

Cited by
EP0509394A1

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0412411 A2 19910213; EP 0412411 A3 19920923; EP 0412411 B1 19960605; DE 3938705 A1 19910523; DE 3938705 C2 19960905; DE 59010355 D1 19960711; US 5077465 A 19911231

DOCDB simple family (application)
EP 90114678 A 19900731; DE 3938705 A 19891117; DE 59010355 T 19900731; US 56343390 A 19900807