

Title (en)

ANTENNA STABILISATION AND AIMING DEVICE, ESPECIALLY ON A SHIP

Publication

EP 0142397 B1 19880601 (FR)

Application

EP 84401833 A 19840914

Priority

FR 8314634 A 19830914

Abstract (en)

[origin: US4621266A] The device, which can be used on merchant vessels having only a course reference, comprises on a base (18) a mounting having bearing orientation means and supporting a gyroscopic assembly with two degrees of freedom, whose outer cardan transmission (28) has an axis of rotation (axis X) perpendicular to the bearing axis, its inner cardan transmission (36) having an axis of rotation (axis Y) at right angles to the axis X and being connected to the antenna during aiming. The gyroscopic assembly comprises a single flywheel (41) of considerable kinetic force in relation to the inertia of the antenna (10). Each cardan transmission has a torque motor (30,38) controlled by a loop whose feedback signal is delivered by an orientational pickup (40, 32) of the other cardan transmission. The means (24, 42, 46, 20) for orientation around the bearing axis are adapted to ensure substantially the aiming of the antenna in bearing, and therefore to retain the gyroscopic assembly close to the canonical position.

IPC 1-7

H01Q 1/18

IPC 8 full level

G01C 19/02 (2006.01); **H01Q 1/18** (2006.01); **H01Q 1/34** (2006.01); **H01Q 3/08** (2006.01)

CPC (source: EP US)

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Cited by

EP0209216A1; US5517205A; EP0519855A1; FR2677813A1; WO9423469A1

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FR 2551920 A1 19850315; FR 2551920 B1 19851206; CA 1223341 A 19870623; DE 3471838 D1 19880707; EP 0142397 A1 19850522; EP 0142397 B1 19880601; JP H0568881 B2 19930929; JP S6085602 A 19850515; NO 164948 B 19900820; NO 164948 C 19901128; NO 843627 L 19850315; US 4621266 A 19861104

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