

Title (en)
Stabilisation mechanisms.

Title (de)
Mechanische Plattformstabilisierung.

Title (fr)
Dispositif de stabilisation mécanique d'une plateforme.

Publication
EP 0108478 A1 19840516 (EN)

Application
EP 83305180 A 19830906

Priority
GB 8225344 A 19820906

Abstract (en)
A stabilisation mechanism for stabilising an antenna has a pendulum arrangement (25, 26, 27) mounted on rotational bearings (22, 24) to give an effective compensatory movement for (e.g.) pitch and roll of a ship. Under complex sinusoidal movements of the mechanism a secondary pendulum comprising a disc member (30) which has a section removed and which is pivoted for three dimensional movement above its centre of mass is caused to rotate thus moving its centre of mass effectively to its pivot point and moving the centre of mass of the primary pendulum up towards its pivot point. Shortening the vertical distance of the centre of mass of the pendulum below its pivot point alters the resonant frequency of the pendulum to assist maintenance of sufficient stabilisation of the position of the antenna (42).

IPC 1-7
H01Q 1/18

IPC 8 full level
H01Q 1/34 (2006.01); **H01Q 1/18** (2006.01); **H01Q 3/02** (2006.01)

CPC (source: EP)
H01Q 1/18 (2013.01)

Citation (search report)
• [A] DE 2745755 A1 19780420 - HAWKER SIDDELEY DYNAMICS LTD
• [A] DE 2359877 B2 19750320
• [A] US 3968496 A 19760706 - BRUNVOLL GEIR

Cited by
EP0440378A3; FR2870392A1; WO2006064055A1; JP2008523859A

Designated contracting state (EPC)
DE FR IT NL SE

DOCDB simple family (publication)
GB 2127622 A 19840411; **GB 2127622 B 19860403**; **GB 8323874 D0 19831005**; EP 0108478 A1 19840516; JP S5964902 A 19840413; NO 833167 L 19840307

DOCDB simple family (application)
GB 8323874 A 19830906; EP 83305180 A 19830906; JP 16267783 A 19830906; NO 833167 A 19830905