

Title (en)
A SINGLE POINT MOORING BUOY WITH RIGID ARM

Publication
EP 0079404 B1 19860618 (EN)

Application
EP 81201274 A 19811117

Priority
EP 81201274 A 19811117

Abstract (en)
[origin: EP0079404A1] The buoy (3) and rigid arm (15) are free to rotate about the vertical axis (A-A) of the buoy. The rigid arm (15) is connected to the single point mooring buoy by a hinge arrangement (9) and an axial rotational connection (10) to allow for independent pitch and roll motions of the buoy in relation to the rigid arm. The vessel (1) is connected to the rigid arm by two tension members (6,7), which could be chains, cables or bars. The rigid arm is ballasted (13,14) at the vessel end. In addition, the vessel and the single point mooring buoy may be connected using a conventional hawser (18). The weight of the rigid arm and its ballast, and the loading on the tension members, combine to produce a restoring force and moment which prevent the vessel from riding up to the buoy or jack-knifing of the assembly when the rigid arm moves out of line with the centre line of the vessel.

IPC 1-7
B63B 27/34; B63B 22/02

IPC 8 full level
B63B 22/02 (2006.01)

CPC (source: EP)
B63B 22/025 (2013.01)

Cited by
US4836813A; US4917038A; FR2556308A1; FR2547789A1; GB2198407A; GB2198407B; EP0135445A1; FR2551721A2; EP1308384A3; EP2895384A4; CN110203331A; US9803787B2; WO2007071647A3

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