

Title (en)

DEVICE FOR CONTROLLING A MAGNETIC INSTALLATION FOR SELF-PROTECTION

Publication

EP 0249838 B1 19910306 (DE)

Application

EP 87108207 A 19870605

Priority

DE 3620402 A 19860618

Abstract (en)

[origin: EP0249838A1] The invention describes a process-controlled magnetic installation for self-protection which has an extensive, triaxial coil system consisting of current-carrying coils in the three orthogonal vessel axes for compensating for the magnetic proper field of the vessel dependent upon the earth's magnetic field at the location of the vessel and the vessel movement (course, rolling, etc.). A process control system is provided which has a digital data processor (9) to which a data bank (8) is allocated in which vessel-specific data from the initial measurement at the measuring point and location-specific data on the conditions of the earth's magnetism in the operational area of the vessel (geomagnetic data) are filed, to which measurement transducers on board the vessel (ship 1) are allocated for coil data, geographical location, course and inherent motion of the vessel, and which, on account of a predetermined sequence control (algorithms), controls the number of ampere turns in the compensation coils in such a way that optimum compensation is guaranteed. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Cited by

FR2659787A1; EP0745828A1; FR2678236A1; DE3904936B3; EP0901959A1; FR2768394A1; WO9113801A1; WO9300257A1; WO2004019297A1

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