Title (en)

STABLE FLOATING STRUCTURE WITH LIMITED OSCILLATIONS

Title (de)

STABILE SCHWIMMENDE STRUKTUR MIT BEGRENZTEN SCHWINGUNGEN

Title (fr)

STRUCTURE FLOTTANTE STABLE À OSCILLATIONS LIMITÉES

Publication

EP 2051902 A1 20090429 (EN)

Application

EP 07705395 A 20070226

Priority

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Abstract (en)

[origin: WO2007096680A1] The stable floating platform is constituted from (as shown in fig.l) four peripheral floaters (2) and one central (1) connected to each other with tubular grid (3). On top of the central floater a metal tower (4) is supported, with a wind generator (5). In the interior of the central floater (as shown in fig.2) a desalination unit (6) is installed with the essential equipment, the batteries and the control equipment (7). The peripheral floaters have the ability to store and input - output water, altering in this way the natural frequency of the structure (platform), avoiding thus resonance with the sea waves. The control of the water is made with valves that feed compressed air into the compartment that contains water, regulating thus the volume of the water in the cylinders. The floating structure presents only limited oscillations under sea waves and so it is possible for the wind generator (and/or the desalination unit) to operate on it.

IPC 8 full level

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CPC (source: EP GR KR)

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Citation (search report)

See references of WO 2007096680A1

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