

Title (en)
FLOATING STRUCTURE FOR MOUNTING A WIND TURBINE OFFSHORE

Title (de)
SCHWIMMENDE MONTAGESTRUKTUR FÜR OFFSHORE-WINDKRAFTANLAGEN

Title (fr)
STRUCTURE FLOTTANTE PERMETTANT DE SUPPORTER UNE TURBINE EOLIENNE AU LARGE

Publication
EP 1303699 A1 20030423 (EN)

Application
EP 01953300 A 20010727

Priority
• IE 0100097 W 20010727
• IE 20000601 A 20000727
• IE 20010627 A 20010629

Abstract (en)
[origin: WO0210589A1] A wind powered generator (1) for locating offshore comprises a semi-submersible structure (5) with a mast (6) extending upwardly therefrom for carrying a wind turbine (3). A primary buoyancy chamber (16) is formed in the semi-submersible structure (5), and a primary anchor cable (23) is secured to the semi-submersible structure (5) in the primary buoyancy chamber (16) by a primary connecting bracket (22). The primary anchor cable (23) extends directly downwardly to a primary anchorage (24) in the sea bed (25) for anchoring the semi-submersible structure (5). Additionally, a winching mechanism (not shown) is provided for winching the semi-submersible structure (5) downwardly on the primary anchor cable (23) in the water against the upward buoyancy force acting on the semi-submersible structure (5) for raising the centre of flotation of the semi-submersible structure (5), for in turn increasing the righting moment acting on the semi-submersible structure for returning the semi-submersible structure (5) to its equilibrium flotation state in the event of the semi-submersible structure (5) tilting from the vertical.

IPC 1-7
F03D 11/04; B63B 21/50

IPC 8 full level
B63B 21/50 (2006.01); **B66C 23/18** (2006.01); **E02B 17/00** (2006.01); **F03D 11/04** (2006.01)

CPC (source: EP KR)
B63B 21/50 (2013.01 - EP KR); **F03D 9/25** (2016.05 - KR); **F03D 13/25** (2016.05 - EP KR); **F03D 15/00** (2016.05 - KR);
B63B 2021/505 (2013.01 - EP KR); **B63B 2035/446** (2013.01 - EP KR); **E04H 2012/006** (2013.01 - EP KR); **F05B 2240/93** (2013.01 - EP KR);
Y02E 10/72 (2013.01 - EP); **Y02E 10/727** (2013.01 - EP KR)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0210589 A1 20020207; AU 7578301 A 20020213; EP 1303699 A1 20030423; IE S20010719 A2 20020320; KR 20030036643 A 20030509;
NO 20030399 D0 20030124; NO 20030399 L 20030303

DOCDB simple family (application)
IE 0100097 W 20010727; AU 7578301 A 20010727; EP 01953300 A 20010727; IE S20010719 A 20010727; KR 20037001174 A 20030127;
NO 20030399 A 20030124