

Title (en)
DRILLING UNIT COMPRISING AN ELECTRIC HEAVE-COMPENSATION SYSTEM

Title (de)
BOHREINHEIT MIT EINEM ELEKTRISCHEN HIEV-AUSGLEICHSSYSTEM

Title (fr)
UNITÉ DE FORAGE COMPRENANT UN SYSTÈME DE COMPENSATION DE PILONNEMENT ÉLECTRIQUE

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Application
EP 17156406 A 20170216

Priority
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Abstract (en)
The invention relates to a drilling unit (100a, 100b) for mounting on a deck (200) of a floating vessel, the drilling unit (100a, 100b) comprising a drill tower structure (130) with a heave-compensation system for compensating vertical movements of the floating vessel due to waves. The drilling unit (100a, 100b) further comprises a winch (110) mounted at or near the deck (200), a crown block (151) mounted at a top side (140) of the drill tower structure (130) and at least one wire rope (120) provided between the winch (110) and the crown block (151). The heave-compensation system comprises a slideable support frame (150) configured to be moved relative to the drill tower structure (130) in a direction substantially parallel to the axial direction of the drill tower structure (130), wherein either the winch (110) or the crown block (151) is provided within the slideable support frame (150) such that a distance between the winch (110) and the crown block (151) is controllable, wherein the position of the slideable support frame (150) with respect to the drill tower structure (130) is controlled by at least one electric motor or linear actuator (171). Alternatively, the crown block may be dispensed with and the winch (110) is placed in the slideable support frame (150) at the top side (140) of the drill tower structure (130). The invention provides a drilling unit with an improved and overall more compact design of a compensation system.

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Citation (applicant)
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