

Title (en)
DRILLING TOWER DEVICE AND DRILLING MACHINE SYSTEM

Title (de)
BOHRTURMVORRICHTUNG UND BOHRMASCHINENSYSTEM

Title (fr)
DISPOSITIF DE TOUR DE FORAGE ET SYSTÈME DE MACHINE DE FORAGE

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Application
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Abstract (en)

[origin: WO2009002189A1] A drilling tower device (1; 26) with a drilling machine (2; 27) that is movable relative to the drilling tower (1; 26) during drilling and on the insertion and retrieval of drill string elements (3; 21; 28). The drilling tower comprises at least three mutually separate, parallel, vertical columns (4 - 7) which are connected at the bottom to a drill floor (8; 33) or base (9; 34) and at the top to a common frame (10; 35). The drilling machine (2) is mounted in a supporting frame (11) which has a triangular, rectangular or square configuration. The corners of the supporting frame have guides (12 - 16; 35' - 35'') for sliding engagement with a respective column (4 - 7; 29 - 32), and a pair of telescopic actuators (17; 18; 36; 37) are arranged for controllably moving the supporting frame (11; 35) along the columns (4 - 7; 29 - 32) to the desired level. The actuators cooperate with travellers (35; 38; 39) which slide along the supporting columns (4 - 7; 29 - 32) of the drilling tower (1; 26). A drilling machine system is also described, said drilling machine comprising a controller for controlling the functions of the drilling machine, wherein the controller is wirelessly controllable from an external remote control unit, and where the controller is supplied with electric power on the basis of externally deliverable hydraulic or electric operating power to the drilling machine.

IPC 8 full level
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Citation (search report)

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