

Title (en)

CLAMPING HEAD FOR AN EARTH-DRILLING SYSTEM

Title (de)

SPANNKOPF FÜR EINE ERDBOHRANLAGE

Title (fr)

TÊTE DE SERRAGE POUR UNE INSTALLATION DE FORAGE DU SOL

Publication

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Application

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Abstract (en)

[origin: US2011260480A1] The invention relates to a clamping head for an earth-drilling system comprising a hollow shaft (3) through which a drill pipe (9) can be guided, wherein a sleeve (1) is arranged coaxially on the hollow shaft (3) in such a way that it can move relative thereto, said sleeve having at least one widening end region (1b), in particular a downwardly widening end region which particularly widens in a conical shape, and wherein at least two clamping jaws (2) which can move radially with respect to the hollow shaft (3) are mounted in the hollow shaft (3) and/or on the sleeve (1), said clamping jaws being provided at their radially outer end with run-on surfaces (2b) interacting with the widening end region (1b), such that the clamping jaws (2) can be pressed radially inward as a result of the end region (1b) sliding over them and form a first clamping mechanism for a drill pipe (9), in particular such that a torque can be transmitted between the hollow shaft (3) and drill pipe (9) as a result of an interaction between the clamping jaws (2) and drill pipe (9), wherein a second clamping mechanism is provided in the hollow shaft (3) and can be used to secure a drill pipe (9) in the axial direction, in particular in order to draw a drill pipe (9) from the ground in the axial direction.

IPC 8 full level

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