

Title (en)
AN IMPROVED DIRECTIONAL DRILLING TOOL

Title (de)
VERBESSERTES RICHTBOHRWERKZEUG

Title (fr)
OUTIL DE FORAGE DIRECTIONNEL AMÉLIORÉ

Publication
EP 2732120 A2 20140521 (EN)

Application
EP 12740887 A 20120715

Priority
• GB 201112104 A 20110714
• EG 2012000026 W 20120715

Abstract (en)
[origin: WO2013007269A2] A directional drilling tool is provided, which comprises a first end (2) attachable to a drill string, and a second end (4) attachable to a drill bit. A swivel section (6) is provided intermediate the first and second ends (2,4) and has a first swivel member (18) non-rotatably attached to the first end (2) and a second swivel member (20) rotatably coupled to the first swivel member (18) and rotatable relative thereto about a first axis of rotation which is co-axial with a longitudinal axis (LI) of the tool. A first actuator is adapted to selectively rotate the second swivel member (20) about the first axis of rotation. An adjustable bend section (12) has a first bend member (118) non-rotatably attached to the second swivel member (20) and a second bend member (120) rotatably coupled to the first bend member (118), where the first bend member (118) is co-axial with the longitudinal axis (LI), and the second bend member (120) is rotatable relative to the first bend member (118) about a second axis of rotation (R) which is at a non-zero angle relative to the longitudinal axis (LI). A second actuator is adapted to selectively rotate the second bend member (120) about the second axis of rotation (R). A directional drilling system incorporating the tool, a control process for the tool, and a motor drive for rotating a second body relative to a first body are also provided.

IPC 8 full level
E21B 7/06 (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2013007269A2

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