

Title (en)

Apparatus and method for adjusting the azimuth of the trajectory of a rotary drilling tool.

Title (de)

Vorrichtung und Verfahren zum Steuern des Azimuts der Fahrt eines Drehbohrwerkzeuges.

Title (fr)

Dispositif et procédé pour le réglage en azimuth de la trajectoire d'un outil de forage rotatif.

Publication

**EP 0456526 A1 19911113 (FR)**

Application

**EP 91400524 A 19910226**

Priority

FR 9002876 A 19900307

Abstract (en)

The apparatus comprises a drill string having a first end by means of which the rotation is transmitted to the drill string and the axial force is transmitted to the tool (3) during the drilling and a second end to which the tool (3) is fixed. The apparatus comprises means of adjusting the azimuth of the trajectory of the drilling tool, constituted by a tubular body (10) comprising a radially protruding support blade (11) mounted in a rotary manner on the drill string (2) and a remotely manoeuvrable junction means allowing, in its active position, the drill string (2) and the tubular body (10) to be firmly connected together in rotation. In the inactive position of the junction means, the drill string (2) freely rotates inside the tubular body which is held stationary in the borehole by the support blade (11). The support blade (11) is placed in the borehole with an angular orientation allowing the adjustment of azimuth in the desired direction. <IMAGE>

IPC 1-7

**E21B 7/06**

IPC 8 full level

**E21B 7/06** (2006.01); **E21B 7/08** (2006.01); **E21B 23/00** (2006.01)

CPC (source: EP US)

**E21B 7/062** (2013.01 - EP US); **E21B 7/067** (2013.01 - EP US); **E21B 23/006** (2013.01 - EP US)

Citation (search report)

- [X] US 4895214 A 19900123 - SCHOEFFLER WILLIAM N [US]
- [A] WO 8600111 A1 19860103 - UNIVERSAL DOWNHOLE CONTROLS LT [US]
- [A] US 4076084 A 19780228 - TIGHE ROBERT E
- [A] FR 2622920 A1 19890512 - SMF INT [FR]
- [A] FR 1486421 A 19670630 - DRILCO OIL TOOLS
- [A] US 3156310 A 19641110 - FRISBY THOMAS M
- [A] US 2819040 A 19580107 - JAMES WILLIAM G, et al
- [A] US 4476943 A 19841016 - WILLIAMS DAVID R [GB]
- [A] EP 0377378 A1 19900711 - INST FRANCAIS DU PETROLE [FR]

Cited by

GB2281332A; GB2281332B; AU666373B2; WO9323652A1

Designated contracting state (EPC)

GB IT NL

DOCDB simple family (publication)

**FR 2659383 A1 19910913; FR 2659383 B1 19920710**; CA 2037409 A1 19910908; CA 2037409 C 20010703; EP 0456526 A1 19911113; EP 0456526 B1 19940518; NO 303350 B1 19980629; NO 910856 D0 19910305; NO 910856 L 19910909; US 5131479 A 19920721

DOCDB simple family (application)

**FR 9002876 A 19900307**; CA 2037409 A 19910301; EP 91400524 A 19910226; NO 910856 A 19910305; US 66225191 A 19910228