

Title (en)

T-SLOT MANDREL AND KICKOVER TOOL.

Title (de)

T-SCHLITZ-ROHR UND IN GANG SETZENDES WERKZEUG.

Title (fr)

MANDREL A FENTE EN T ET OUTIL DE RENVERSEMENT.

Publication

EP 0400037 B1 19940406

Application

EP 89902155 A 19890124

Priority

- US 8900295 W 19890124
- US 15165488 A 19880203

Abstract (en)

[origin: WO8907189A1] In accordance with illustrative embodiments of the present invention, a side pocket mandrel includes an orienting sleeve (3) having guide surfaces (36) that lead to a longitudinal slot (37) which forms, together with an adjacent longitudinal recess in the mandrel, a T-shaped channel that cooperates with projections (70, 71) on the arm (66) of a kickover tool to precisely align the gas lift valve (56) with the receptacle bore (16) in the mandrel. The kickover tool includes an assembly of pivotally mounted upper (61) and lower (66) arms with the lower arm (66) being pivoted to the tool body. The lower arm includes a locating finger and transversely extending projections (70) that engage and slide in a T-shaped channel (37) of the mandrel to achieve precise alignment of the valve with the receiver bore (16).

IPC 1-7

E21B 23/03

IPC 8 full level

E21B 23/03 (2006.01)

CPC (source: EP US)

E21B 23/03 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 8907189 A1 19890810; AU 3041489 A 19890825; AU 629199 B2 19921001; BR 8907223 A 19910305; CA 1302874 C 19920609; DE 68914442 D1 19940511; EP 0400037 A1 19901205; EP 0400037 B1 19940406; JP H03503664 A 19910815; MX 172479 B 19931217

DOCDB simple family (application)

US 8900295 W 19890124; AU 3041489 A 19890124; BR 8907223 A 19890124; CA 589856 A 19890202; DE 68914442 T 19890124; EP 89902155 A 19890124; JP 50200789 A 19890124; MX 1464289 A 19890124