

Title (en)

Expandable centralizer for expandable pipe string

Title (de)

Zentrierkorb für erweiterbare Bohrlochrohre

Title (fr)

Élément de centrage expansible destiné à une colonne de tubes dilatables

Publication

EP 2578796 A3 20140827 (EN)

Application

EP 13150396 A 20080509

Priority

- US 74954407 A 20070516
- US 82894307 A 20070726
- EP 11189762 A 20080509
- EP 08769366 A 20080509

Abstract (en)

[origin: WO2008144249A2] A close-tolerance expandable bow spring centralizer (8) having a first expandable collar (10A) coupled to and spaced apart from a second expandable collar (10B) through a plurality of bow springs (30) wherein expandable collars (10A, 10B) comprise a plurality of slidably coupled links (16) that separate to expand the diameter of the collars (10A, 10B), e.g., upon expansion of an expandable pipe string (80) on which the centralizer (8) is received. Expandable bow spring centralizer (8) may grip the expandable pipe string (80) when in the collapsed configuration to eliminate the need for a stop collar. Additionally or alternatively, a fin (32) may be connected to each bow spring (30), and then connected to one or more adjacent fins (32) upon collapse of the bow springs (30) to form a restraining band (39) that may be ruptured, e.g., upon expansion of the expandable pipe string (80).

IPC 8 full level

E21B 17/10 (2006.01); **E21B 43/10** (2006.01)

CPC (source: EP)

E21B 17/1028 (2013.01); **E21B 17/1078** (2013.01); **E21B 43/103** (2013.01)

Citation (search report)

- [A] GB 2148985 A 19850605 - BAKER OIL TOOLS INC
- [A] US 3356147 A 19671205 - WILFRED DREYFUSS
- [A] US 3566965 A 19710302 - SOLUM JAMES R
- [A] US 2718266 A 19550920 - BERRY JOHN R, et al

Cited by

CN110043199A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008144249 A2 20081127; WO 2008144249 A3 20090115; WO 2008144249 A4 20090312; AT E536462 T1 20111215; BR PI0812118 A2 20141125; CA 2687495 A1 20081127; CA 2687495 C 20170418; EP 2158379 A2 20100303; EP 2158379 B1 20111207; EP 2428637 A2 20120314; EP 2428637 A3 20140730; EP 2578796 A2 20130410; EP 2578796 A3 20140827

DOCDB simple family (application)

US 2008063163 W 20080509; AT 08769366 T 20080509; BR PI0812118 A 20080509; CA 2687495 A 20080509; EP 08769366 A 20080509; EP 11189762 A 20080509; EP 13150396 A 20080509