

Title (en)

Downhole packer having tandem packer elements for isolating frac zones

Title (de)

Bohrlochpacker mit Tandempackerelementen zur Isolierung von Frac-Bereichen

Title (fr)

Garniture d'étanchéité de fond de puits disposant d'éléments de garniture d'étanchéité double permettant d'isoler les zones de fracturation

Publication

EP 2407633 A3 20130814 (EN)

Application

EP 11166237 A 20110516

Priority

US 83568410 A 20100713

Abstract (en)

[origin: EP2407633A2] A tandem packer (100) seals a wellbore annulus with first and second seals. The packer has a body defining a bore therethrough and has a shoulder disposed on the body. A compressible element (150) is disposed on the body adjacent the shoulder. A piston is movably disposed on the body adjacent the compressible element and is activated by fluid pressure communicated through a port in the packer's bore. When actuated, the piston fits between the compressible element and the body to initially expand it outward. With further fluid pressure, the piston compresses the compressible element against the shoulder to expand the element radially outward and produce a first seal with a surrounding surface. A swellable element (180) also disposed on the body is swellable in the presence of an agent and expands radially outward to produce a second seal with the surrounding surface.

IPC 8 full level

E21B 33/128 (2006.01); **E21B 23/06** (2006.01); **E21B 33/12** (2006.01); **E21B 33/124** (2006.01)

CPC (source: EP US)

E21B 23/06 (2013.01 - EP US); **E21B 33/1208** (2013.01 - EP US); **E21B 33/124** (2013.01 - EP US); **E21B 33/1243** (2013.01 - EP US); **E21B 33/1285** (2013.01 - EP US)

Citation (search report)

- [XP] EP 2258920 A2 20101208 - WEATHERFORD LAMB [US]
- [A] US 49544 A 18650822

Cited by

GB2604889A; GB2534050A; GB2534050B; GB2553823A; GB2553823B; US9637997B2; WO2015031459A1; US10837256B2; US11976531B2

Designated contracting state (EPC)

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