

Title (en)  
Downhole packer having swellable sleeve

Title (de)  
Bohrlochpacker mit quellfähiger Hülse

Title (fr)  
Garniture d'étanchéité de fond de puits dotée d'un manchon gonflable

Publication  
**EP 2407632 A3 20130814 (EN)**

Application  
**EP 11166245 A 20110516**

Priority  
US 83568710 A 20100713

Abstract (en)  
[origin: EP2407632A2] A packer (200) seals a wellbore annulus. The packer has a body defining a bore therethrough and has a swellable element (250) disposed on the body. An expander (240) movably disposed on the body adjacent the swellable element is actuated by fluid pressure communicated through a port in the body's bore. When actuated, the expander fits between the swellable element and the body to expand the swellable element radially outward an initial expansion amount. While downhole, the swellable element swells in the presence of an agent downhole and expands radially outward a subsequent expansion amount to produce a seal with a surrounding surface. With further fluid pressure, the expander can also compress the swellable element to further increase the expansion amount of the swellable element.

IPC 8 full level  
**E21B 33/124** (2006.01); **E21B 23/04** (2006.01); **E21B 23/06** (2006.01); **E21B 33/128** (2006.01); **E21B 33/134** (2006.01)

CPC (source: EP US)  
**E21B 23/06** (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); **E21B 33/134** (2013.01 - EP US)

Citation (search report)

- [XY] WO 2008014095 A1 20080131 - BAKER HUGHES INC [US], et al
- [Y] US 4141413 A 19790227 - MORRIS ARTHUR J, et al
- [XA] WO 2006098631 A1 20060921 - EASY WELL SOLUTIONS AS [NO], et al
- [X] US 6854522 B2 20050215 - BREZINSKI MICHAEL M [US], et al
- [XPA] EP 2258920 A2 20101208 - WEATHERFORD LAMB [US]
- [X] EP 2133509 A1 20091216 - FLO TECH HOLDINGS LIMITED [VG]

Cited by  
CN107605422A; CN110671060A; GB2545583A; GB2545583B; US11840905B2; WO2016057496A1; US10753173B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2407632 A2 20120118; EP 2407632 A3 20130814; AU 2011202242 A1 20120202; US 2012012343 A1 20120119**

DOCDB simple family (application)  
**EP 11166245 A 20110516; AU 2011202242 A 20110516; US 83568710 A 20100713**