

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 A2 20120118 (EN)

Application

EP 11166245 A 20110516

Priority

US 83568710 A 20100713

Abstract (en)

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

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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 (applicant)

US 6612372 B1 20030902 - FREIHEIT ROLAND R [CA], et al

Cited by

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

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