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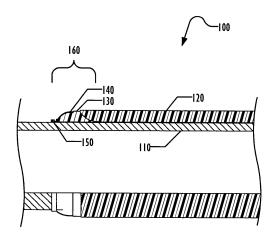
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(54) Universal backup for swellable packers

(57) A universal backup member is provided for use on packers and other downhole tools that use members selected for expansion upon exposure to a wellbore fluid. The backup member prevents axial extrusion of the

swellable member. An elastomer portion of the backup member is selected for expansion in wellbore fluids that include both aqueous solutions and hydrocarbons, without regard to the fluid in the wellbore.





EUROPEAN SEARCH REPORT

Application Number EP 11 25 0818

	DOCUMENTS CONSIDER	RED TO BE RELEVANT		
Category	Citation of document with indic of relevant passage		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Х	WO 2008/062186 A1 (SV 29 May 2008 (2008-05- * page 9, line 34 - p figures 1,2,5 *	·29)	1-15	INV. E21B33/12
А	US 2007/125532 A1 (MU ET AL) 7 June 2007 (2 * paragraph [0064]; 1	2007-06-07)	1-15	
A	US 6 581 682 B1 (PARE ET AL) 24 June 2003 (* column 7, line 29 -		1-15	
А	WO 2008/154392 A1 (BA BERZIN VEL [US]; MURI WOOD ED) 18 December * paragraph [0022]; 1	RAY DOUGLAS J [US]; 2008 (2008-12-18)	1-15	
				TECHNICAL FIELDS SEARCHED (IPC)
				E21B
	The present search report has bee	en drawn up for all claims		
	Place of search	Date of completion of the search	<u> </u>	Examiner
	Munich	12 March 2014	Str	ømmen, Henrik
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS coularly relevant if taken alone coularly relevant if combined with another ument of the same category nological background written disclosure	T : theory or principl E : earlier patent dor after the filing dat D : dooument cited in L : document cited for	eument, but publis e n the application or other reasons	shed on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-03-2014

	Patent document ed in search report		Publication date		Patent family member(s)		ublication date
WO	2008062186	A1	29-05-2008	NONE			
US	2007125532	A1	07-06-2007	NONE			
US	6581682	B1	24-06-2003	CA US	2321377 6581682		-03-200 -06-200
WO	2008154392	A1	18-12-2008	US WO	2009139707 2008154392	A1 A1	-06-200 -12-200

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82