

General:

- Id of document version: **19222959**
- Status of the document <ep-bulletin>: **Replacement of data for an application already published**
- Changed tag from previous publication of document <B002EP><ep-chgt-info>: **B475=N,20191115**
- Publication number of the document (EPO or WIPO) <B110>: **3039240**
- Kind of document <B130>: **B1**
- EPO Application number <B210>: **14839167.5**
- Application filing date <B220>: **2014.08.28**
- Date of refusal of application <B235>:
- Date of withdrawal of application <B235>:
- Date of application deemed withdrawn <B237>:
- Date of receipt of request for re-establishment of rights <B238EP>:
- Date of decision for re-establishment of rights <B238>:
- Date of making available to the public by printing or similar process of an unexamined patent document, on which no grant has taken place on or before the said date <B430>: **2016.07.06**
- Date of making available to the public by printing or similar process of a patent document on which grant has taken place on or before the said date <B450><date>: **2019.03.27**
- Number of the EPO Bulletin in which the mention of the grant is published. <B450><bnum>: **201913**
- Date of rejection of the opposition procedure <B787>:
- Date of termination of the opposition procedure <B788>:
- Due date for translation: **2019.06.27**
- Text when the inventor has agreed to waive his entitlement to designation. <B009EP><text[j]>:
- Date of reception of document: **2019.12.21**
- Date of publication <B140>: **2019.12.18**

Priority <B300>:

Number(s) assigned to priority application(s) <B310>:	Date(s) of filing of priority application(s) <B320>:	National property office allotting the priority application number or the organization allotting the regional priority application Number (WO for PCT) – country code <B330>:
	2013.08.28	US

Lapse <B472>:**No lapse.**

Classification <B500>:

IPC (8) as one fixed length field of 50 positions <B510EP><text>:	Edition of IPC (IPC version) <B516>:
E21B 17/00 20060101ALI20170420BHEP	8
E21B 47/12 20120101AFI20170420BHEP	8

Title <B540>:

No title.

Division <B620> or <B620EP>:

No division.

EPO Customer <B710>&<B720>&<B730>&<B740>:

Name <snm>:	Baker Hughes Incorporated	EPO number of the customer <iid>:	101697678
Address <street>, <city>, <ctry>:	17021 Aldine Westfield Houston, TX 77073-5101 US		
Customer type:	Grantees	Status:	0

Name <snm>:	BRP Renaud & Partner mbB Rechtsanwälte Patentanwälte Steuerberater	EPO number of the customer <iid>:	100060892
Address <street>, <city>, <ctry>:	Königstraße 28 70173 Stuttgart DE		
Customer type:	Attorney / Agent	Status:	0

Name <snm>:	MUELLER, Stephan	EPO number of the customer <iid>:	
Address <street>, <city>, <ctry>:	Am Felsenkeller 1 31867 Lauenau DE		
Customer type:	Inventor	Status:	0

Name <snm>:	RODERS, Ingo	EPO number of the customer <iid>:	
Address <street>, <city>, <ctry>:	Im Brande 6 30926 Seelze DE		
Customer type:	Inventor	Status:	0

Name <snm>:	SCHOENBORN, Kai	EPO number of the customer <iid>:	
Address <street>, <city>, <ctry>:	Im Dreieck 9 29331 Lachendorf DE		
Customer type:	Inventor	Status:	0

Opposition <B780>:
No opposition.

Designated countries <B840>:

Kind of document <B130>:	Date of publication <B140>:	Country code <B840><ctry>:
B1	2019.12.18	NO

PCT <B860>&<B870>:

Kind of document	B1
-------------------------	----

<B130>:			
PCT Application number <B861><anum>:	US2014053045	Date of filing <B861><date>:	2014.08.28
PCT Publication number <B871><pnum>:	WO2015031554	Publication date <B871><date>:	2015.03.05
Issue number of the Gazette <B871><bnum>:	201509	Country code <B862>:	en

Citations <B560>:

Kind of document <B130>:	Type <B561> or <B562>:	Text <B561><text> or <B562><text>:
B1	PT citation	EP-A2- 2 273 058
B1	PT citation	GB-A- 2 407 334
B1	PT citation	US-A- 4 788 544
B1	PT citation	US-A- 5 052 941
B1	PT citation	US-A1- 2007 030 167
B1	PT citation	US-A1- 2007 257 812
B1	PT citation	US-A1- 2010 264 650
B1	PT citation	US-A1- 2010 328 095
B1	PT citation	US-A1- 2013 080 060
B1	PT citation	US-B2- 6 641 434