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- EPO Application number <B210>: **14839167.5**
- Application filing date <B220>: **2014.08.28**
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**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>:**

<b>IPC (8) as one fixed length field of 50 positions &lt;B510EP&gt;&lt;text&gt;:</b>	<b>Edition of IPC (IPC version) &lt;B516&gt;:</b>
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>:**

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

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

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<b>Customer type:</b>	Inventor	<b>Status:</b>	0

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<b>Customer type:</b>	Inventor	<b>Status:</b>	0

**Opposition <B780>:**  
No opposition.

**Designated countries <B840>:**

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B1	2020.06.17	NO

**PCT <B860>&<B870>:**

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

**Citations <B560>:**

<b>Kind of document &lt;B130&gt;:</b>	<b>Type &lt;B561&gt; or &lt;B562&gt;:</b>	<b>Text &lt;B561&gt;&lt;text&gt; or &lt;B562&gt;&lt;text&gt;:</b>
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