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**Priority <B300>:**

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	2016.08.18	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 33/00 20060101AFI20190925BHEP	8

**Title <B540>:**

No title.

**Division <B620> or <B620EP>:**

No division.

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

<b>Name &lt;snm&gt;:</b>	COLPITT, Charles	<b>EPO number of the customer &lt;iid&gt;:</b>	
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<b>Customer type:</b>	Inventor	<b>Status:</b>	0

<b>Name &lt;snm&gt;:</b>	ConocoPhillips Company	<b>EPO number of the customer &lt;iid&gt;:</b>	101820027
<b>Address &lt;street&gt;, &lt;city&gt;, &lt;ctry&gt;:</b>	925 N. Eldridge Parkway Houston, Texas 77079 US		
<b>Customer type:</b>	Grantees	<b>Status:</b>	0

<b>Name &lt;snm&gt;:</b>	NANNEY, James G.	<b>EPO number of the customer &lt;iid&gt;:</b>	
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<b>Name &lt;snm&gt;:</b>	Simpson, Paul Christopher	<b>EPO number of the customer &lt;iid&gt;:</b>	101746474
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**Opposition <B780>:**  
No opposition.

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B1	2021.12.01	NO

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

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**Citations <B560>:**

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B1	PT citation	WO-A1-2010/135019
B1	PT citation	US-A1- 2011 186 306
B1	PT citation	US-A1- 2012 181 032
B1	PT citation	US-A1- 2013 062 063
B1	PT citation	US-A1- 2014 190 685
B1	PT citation	US-A1- 2015 159 462
B1	PT citation	US-A1- 2016 047 199
B1	PT citation	US-A1- 2016 376 869
B1	PT citation	US-A1- 2017 175 487
B1	PT citation	US-B1- 6 561 270
B1	PT citation	US-B2- 7 472 753