

Title (en)  
DETECTING A DRILL STRING WASHOUT EVENT

Title (de)  
ERKENNUNG EINES AUSSCHWEMMUNGSEREIGNISSES EINES BOHRSTRANGS

Title (fr)  
DéTECTION D'UN ÉvÉNEMENT DE FUITE DE TRAIN DE TIGES DE FORAGE

Publication  
**EP 2864576 A1 20150429 (EN)**

Application  
**EP 13806487 A 20130620**

Priority  
• US 201261663240 P 20120622  
• US 2013046678 W 20130620

Abstract (en)  
[origin: WO2013192365A1] A method for detecting a drill string washout event. The method includes locating a drill string in a wellbore formed in a subterranean formation. A drilling fluid is pumped into the drill string. The drill string includes a turbine that spins in response to the drilling fluid flowing therethrough. A comparison is made between a rate that the drilling fluid is pumped into the drill string and a spin rate of the turbine. A defect is determined to be formed in the drill string based upon the comparison.

IPC 8 full level  
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CPC (source: EP US)  
**E21B 4/02** (2013.01 - US); **E21B 21/08** (2013.01 - EP US); **E21B 47/117** (2020.05 - EP US)

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Designated extension state (EPC)  
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**WO 2013192365 A1 20131227**; **WO 2013192365 A8 20141231**; CA 2876895 A1 20131227; EP 2864576 A1 20150429; EP 2864576 A4 20160727; US 2015184504 A1 20150702

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**US 2013046678 W 20130620**; CA 2876895 A 20130620; EP 13806487 A 20130620; US 201314406223 A 20130620