

Title (en)
VARIABLE FLOW RESISTANCE FOR USE WITH A SUBTERRANEAN WELL

Title (de)
VARIABLER STRÖMUNGSWIDERSTAND ZUR VERWENDUNG BEI EINER UNTERIRDISCHEN BOHRUNG

Title (fr)
SYSTÈME DE RÉSISTANCE VARIABLE À L'ÉCOULEMENT À METTRE EN OEUVRE DANS UN Puits SOUTERRAIN

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Application
EP 18169405 A 20111107

Priority
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• US 2011059530 W 20111107

Abstract (en)
A variable flow resistance system for use with a subterranean well can include a structure 90 which displaces in response to a flow of a fluid composition, whereby a resistance to the flow of the fluid composition changes in response to a change in a ratio of desired to undesired fluid in the fluid composition. Another system can include a structure 90 which rotates in response to flow of a fluid composition, and a fluid switch which deflects the fluid composition relative to at least two flow paths. A method of variably resisting flow in a subterranean well can include a structure displacing in response to a flow of a fluid composition, and a resistance to the flow of the fluid composition changing in response to a ratio of desired to undesired fluid in the fluid composition changing. Swellable materials and airfoils may be used in variable flow resistance systems.

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CPC (source: EP)
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Citation (applicant)
• US 79211710 A 20100602
• US 3385367 A 19680528 - PAUL KOLLSMAN
• US 7059415 B2 20060613 - BOSMA MARTIN GERARD RENE [NL], et al
• US 2004020662 A1 20040205 - FREYER JAN [NO]
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Citation (search report)
• [E] EP 2697473 B1 20180207 - HALLIBURTON ENERGY SERVICES INC [US]
• [E] EP 2392771 A2 20111207 - HALLIBURTON ENERGY SERV INC [US]
• [A] WO 2010087719 A1 20100805 - STATOIL ASA [NO], et al
• [A] EP 2383430 A2 20111102 - HALLIBURTON ENERGY SERV INC [US]

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