

Title (en)
Underbalance drilling downhole choke

Title (de)
Drosselventil zum Unterdruckbohren

Title (fr)
Soupape d'étranglement de forage en sous-pressure

Publication
EP 1375817 B1 20060308 (EN)

Application
EP 02291569 A 20020624

Priority
EP 02291569 A 20020624

Abstract (en)
[origin: EP1375817A1] A method for underbalance drilling in a reservoir comprises operating a variable aperture of a downhole choke located at a downhole extremity of a drill string. The variable aperture allows to control a pressure differential between a drilling fluid pumped down the drill string from surface and flowing into the variable aperture of the choke, and the drilling fluid flowing out of the variable aperture, in order to achieve a negative differential pressure between a reservoir pressure and a bottom hole pressure at the downhole extremity of the drill string. <IMAGE>

IPC 8 full level
E21B 21/10 (2006.01); **E21B 21/08** (2006.01); **E21B 21/00** (2006.01)

CPC (source: EP US)
E21B 21/085 (2020.05 - EP US); **E21B 21/10** (2013.01 - EP)

Cited by
EP1898044A3; US11566514B2; CN102182439A; AU2008234631B2; CN102213083A; CN105332687A; US10087701B2; US8517122B2; WO2008148158A1; US9784073B2; US7836973B2; US8122975B2; US8955619B2; WO2008120025A3

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1375817 A1 20040102; EP 1375817 B1 20060308; AT E319911 T1 20060315; DE 60209669 D1 20060504

DOCDB simple family (application)
EP 02291569 A 20020624; AT 02291569 T 20020624; DE 60209669 T 20020624