

Title (en)
METHOD AND DEVICE FOR INTENSIFYING THE PERMEABILITY OF GROUND LAYERS CLOSE TO BORE HOLES AND FILTER BODIES AND FILTER LAYERS IN WELLS AND OTHER PRODUCTION WELLS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR INTENSIVIERUNG DER DURCHLÄSSIGKEIT VON BOHRUNGSNAHEN BODENSCHICHTEN SOWIE VON FILTERKÖRPERN UND FILTERSCHICHTEN IN BRUNNEN UND ANDEREN FÖRDERBOHRUNGEN

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT D'INTENSIFIER LA PERMEABILITE DE COUCHES DE SOL PROCHES D'UN TROU DE FORAGE AINSI QUE DE CORPS DE FILTRES ET DE COUCHES DE FILTRAGE DANS DES PUITES ET D'AUTRES FORAGES PRODUCTIFS

Publication
EP 1583887 A1 20051012 (DE)

Application
EP 04700687 A 20040108

Priority

- DE 10301338 A 20030115
- DE 10361983 A 20031218
- EP 2004000056 W 20040108

Abstract (en)
[origin: WO2004063524A1] The invention relates to a method for intensifying the permeability of ground layers close to bore holes and filter bodies and filter layers (W) in the underground extraction areas (F) of wells and other production drill holes (11) wherein liquid is continuously pumped away in the extraction area (F) of the drill hole (11) by means of an underground pump (8). The liquid which is thus displaced is successively impinged upon with hydraulic energy pulses (E) in the direction of the walls of the drill hole, filter bodies and filter layers (W) by continually moving a pulse generator (1) up and down in the area of extraction (F). The effect of each energy pulse (E) is evaluated by means of seismic measurements and the parameters of the following energy pulses (E) are determined according to the evaluation of the measuring result of the previous energy pulse (E).

IPC 1-7
E21B 28/00; **E21B 37/08**

IPC 8 full level
E21B 28/00 (2006.01); **E21B 37/08** (2006.01); **E21B 43/00** (2006.01)

CPC (source: EP US)
E21B 28/00 (2013.01 - EP US); **E21B 37/08** (2013.01 - EP US); **E21B 43/003** (2013.01 - EP US)

Citation (search report)
See references of WO 2004063524A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004063524 A1 20040729; AT E326610 T1 20060615; DE 10361983 A1 20050714; DE 10361983 B4 20130502; DE 502004000586 D1 20060622; EP 1583887 A1 20051012; EP 1583887 B1 20060517; EP 1583887 B8 20060705; EP 1583887 B8 20060830; ES 2260745 T3 20061101; US 2006137872 A1 20060629; US 7360596 B2 20080422

DOCDB simple family (application)
EP 2004000056 W 20040108; AT 04700687 T 20040108; DE 10361983 A 20031218; DE 502004000586 T 20040108; EP 04700687 A 20040108; ES 04700687 T 20040108; US 54194505 A 20050708