

Title (en)

Fluid sample chamber with non-reactive lining

Title (de)

Flüssigkeits-Proben-Kammer mit nicht-reaktiver Auskleidung

Title (fr)

Chambre d'échantillonnage de liquides avec revêtement non-réactif

Publication

EP 0999348 A2 20000510 (EN)

Application

EP 99308659 A 19991101

Priority

- US 10675298 P 19981102
- US 35741699 A 19990720

Abstract (en)

An apparatus for retaining a well-fluid sample and a method for using the same. The apparatus comprises a variable volume sample chamber having interior surfaces of a nonreactive material, such as a ceramic, the interior surfaces defining a cavity (222). The sample chamber comprises a tubular member, a piston (226) slidingly engaged in the tubular member operable in response to fluid pressure within the sample chamber, a passageway (260) defined in the sample chamber and adapted for providing fluid communication between the cavity (222) and an area exterior the sample chamber, and a valve assembly (254) operable for selectively opening and closing the passageway (260). <IMAGE> <IMAGE>

IPC 1-7

E21B 49/08

IPC 8 full level

E21B 49/08 (2006.01)

CPC (source: EP US)

E21B 49/0815 (2020.05 - EP US)

Citation (applicant)

- US 4878538 A 19891107 - CHRISTENSEN JON B [US]
- US 4903765 A 19900227 - ZUNKEL GARY D [US]
- US 4883123 A 19891128 - ZUNKEL GARY D [US], et al
- US 5240072 A 19930831 - SCHULTZ ROGER L [US], et al
- US 4787447 A 19881129 - CHRISTENSEN JON B [US]
- US 5687791 A 19971118 - BECK HAROLD KENT [US], et al
- US 5423229 A 19950613 - SCHULTZ ROGER L [US], et al

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CN114459819A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0999348 A2 20000510; EP 0999348 A3 20001129

DOCDB simple family (application)

EP 99308659 A 19991101