

Title (en)

Bottle for fluid sampling, for use in deep boreholes.

Title (de)

In Tiefbohrlöchern verwendbare Flasche zur Entnahme einer Flüssigkeit.

Title (fr)

Bouteille de prélèvement de fluide, utilisable en forages profonds.

Publication

EP 0456581 B1 19950322 (FR)

Application

EP 91401218 A 19910507

Priority

FR 9005813 A 19900510

Abstract (en)

[origin: EP0456581A1] The invention allows the sampling of water and gas mixtures in deep boreholes. <??>The filling of the volume (4) of the bottle is obtained by previously producing a vacuum inside this volume (4). Once in place, the duct (10) is opened by the withdrawal of the piston (20) and the opening of the valve (6). Once pressure equilibrium is established, the valve (6) is closed again, the piston (20) is re-inserted in the sleeve (8), with possible pressure compensation by means of a bottom sliding valve (46). Emptying is carried out through the tap (24) which also allows the initial production of a vacuum inside the volume (4). <??>Application to geothermics, nuclear power stations, oceanography and geochemistry. <IMAGE>

IPC 1-7

E21B 49/08

IPC 8 full level

E21B 49/08 (2006.01)

CPC (source: EP US)

E21B 49/082 (2013.01 - EP US)

Cited by

US5322120A; CN101864954A; FR3134400A1; WO9219842A1; WO2023194495A1

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

EP 0456581 A1 19911113; EP 0456581 B1 19950322; DE 69108287 D1 19950427; DE 69108287 T2 19951109; FR 2661943 A1 19911115;
FR 2661943 B1 19920717; US 5139085 A 19920818

DOCDB simple family (application)

EP 91401218 A 19910507; DE 69108287 T 19910507; FR 9005813 A 19900510; US 69134491 A 19910425