

[12] Patent

| | |
|--|--|
| [11] Patent No.: GC 0000239 | Number of the Decision to Grant the Patent: 5/809 |
| [45] Date of Publishing the Grant of the Patent: 29/03/2006 5/2006 | Date of the Decision to Grant the Patent: 15/06/2005 |
| [21] Application No.: GCC/P/2001/1786 [22] Filing Date: 22/12/2001 [30] Priority: [31] Priority No. 0016613 [32] Priority date 19/12/2000 [33] State FR [72] Inventor: 1- Michel Berard, 2- Gerard Segeral [73] Owner: Schlumberger Technology B.V., Parkstraat 83-89, N-2514, The Hague, The Netherlands [74] Agent: Suleiman Ibrahim Al-Ammar | [51] Int. Cl. ⁷ : G01N 23/12, 33/28 [56] Cited Documents: - FR 2764065 A (SCHLUMBERGER SERVICES PETROL) 04 December 1998 - WO 9425859 A (SHELL CANADA LTD; SHELL INT RESEARCH (NL)) 10 November 1994 |

[54] APPARATUS AND METHOD FOR CHARACTERIZING MULTIPHASE EFFLUENTS

[57] Abstract: The invention relates to an apparatus for characterizing an effluent formed by a multiphase fluid mixture, said apparatus comprising source emitting gamma rays at a plurality of energy levels through said effluent towards a detector block that takes account of the photons it receives as a consequence thereof to deduce wherefrom the attenuation of said rays by said effluent. According to the invention, the detector block includes a filter for selectively detecting the photons it receives at a first energy level and at a second energy level said first and second levels being predetermined amongst the energy levels of radiation from the source.

No. of claims: 33

No. of figures: 2

