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[21] Application No.: GCC/P/2000/636 [22] Filing Date: 26/04/2000 [30] Priority: [31] Priority No. [32] Priority date [33] State 99303395.0 29/04/1999 EP [72] Inventors: 1- Johannis Josephus Den Bore, 2- Astrid Hartwijk, 3- Gerald Sommerauer, 4- John Foreman Stewart [73] Owner: Shell Internationale Research Maatschappij B.V., Carel van Bylandtlaan 30, The Hague, 2596 HR, The Netherlands [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl. ⁷ : E21B 34/06, 33/12 [56] Cited Documents: - WO 97/02330 A (GEL SCIENCES INC.; DIGGS DAVID; KEARNEY MARIE; TIMM M. J.) 23 January 1997 - WO 92/02005 A (MASSACHUSETTES INST TECHNOLOGY) 06 February 1992

[54] DOWNHOLE DEVICE FOR CONTROLLING FLUID FLOW IN A WELL

[57] Abstract: A downhole device for controlling the flow of fluids through an oil and/or gas production well comprises a deformable chamber which contains an electromagnetic field or other stimuli responsive gel and a fluid passage which is closed off in response to a volume increase of the gel and the deformable chamber.

No. of claims: 10

No. of figures: 6

