[19] PATENT OFFICE OF THE COOPERATION COUNCIL FOR THE ARAB STATES OF THE GULF

[19] مكتب براءات الاختراع لمجلس التعاون لدول الخليج العربية

[12] Patent

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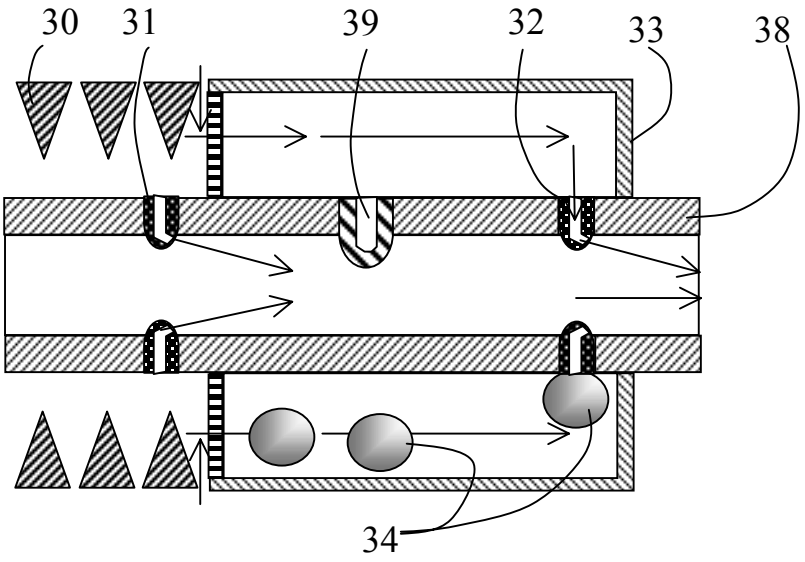
[21] Application No.: GCC/P/2002/1980 [22] Filing Date: 06/05/2002 [30] Priority: [31] Priority No. [32] Priority date [33] State 20012261 08/05/2001 NO [72] Inventor: Jan Freyer [73] Owner: Rune Freyer, Valandsgaten 12, N-4010 Stavanger, Norway [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl.[7]: E21B 43/12 [56] Cited Documents: - US 2762437 A (S.L. EGAN et al.) 11 September 1956 - US 5333684 A (WALTER et al.) 02 August 1994 - US 4287952 A (ERBSTOESSER) 08 September 1989

[54] ARRANGEMENT FOR AND METHOD OF RESTRICTING THE INFLOW OF FORMATION WATER TO A WELL

[57] Abstract: An arrangement for restricting the inflow of formation water from an underground formation to a hydrocarbon producing well, where, between the underground formation and a production tubing (38) located in the well, there is disposed at least one flow chamber (3, 33) connected to the production tubing (38), the flow chamber (3, 33), preferably via a filter (2) in one portion, being open to inflow of formation fluid and in communication with the production tubing (38) via at least one opening (7, 32), and where the flow chamber (3, 33) is provided with at least one free-floating body (4, 34) with approximately the same density as the formation water, the at least one body (4, 34) being designed by means of the closing of at least one opening (32) or choking, to reduce the inflow of formation water to the production tubing (38).

No. of claims: 5 No. of figures: 3



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