

Title (en)

Valve assembly for a hydrocarbon wellbore, method of retro-fitting a valve assembly and sub-surface use of such valve assembly

Title (de)

Ventilanordnung für ein Kohlenwasserstoffbohrloch, Verfahren zum nachträglichen Einbau einer Ventilanordnung und Unteroberflächenverwendung solch einer Ventilanordnung

Title (fr)

Ensemble formant vanne pour trou de forage d'hydrocarbures, procédé pour réajuster un ensemble formant vanne et utilisation souterraine d'un tel ensemble

Publication

EP 2592218 A1 20130515 (EN)

Application

EP 11188271 A 20111108

Priority

EP 11188271 A 20111108

Abstract (en)

The invention relates to a valve assembly (40) for a hydrocarbon wellbore (1). The valve assembly comprises an insert assembly (51,52,53) adapted for insertion in the production tubing or the Christmas tree. The insert assembly is provided with at least two passages (54,55); a lower (56,57) and upper (58,59) passage port for each said passage; a valve member (80) in at least one of said passages; and an operating mechanism (74) for operating the valve member. The passages each extend through the insert assembly from the accompanying lower passage port to the accompanying upper passage port. The lower passage port is arranged at the lower end of the insert assembly and the upper passage port is arranged at a distance above the lower end of the insert assembly. The valve member is operable between a flow position, allowing fluid flow between the lower passage port and upper passage port and a blocking position preventing fluid flow between the lower and upper passage port. The invention further relates to a Christmas tree (16) with such valve assembly, a retrofit assembly with such valve assembly, sub-surface use of such valve assembly, a hydrocarbon wellbore with such assembly and a method of retro-fitting a production flow valve with such valve assembly.

IPC 8 full level

E21B 34/10 (2006.01); **E21B 33/047** (2006.01); **E21B 34/02** (2006.01)

CPC (source: EP US)

E21B 33/047 (2013.01 - EP); **E21B 34/02** (2013.01 - EP US); **E21B 34/10** (2013.01 - EP); **E21B 2200/06** (2020.05 - EP)

Citation (search report)

- [X] WO 2008002473 A2 20080103 - BJ SERVICES CO [US], et al
- [X] US 3739846 A 19730619 - BESON J
- [X] WO 2006133351 A2 20061214 - BJ SERVICES CO [US], et al
- [X] WO 2006069247 A2 20060629 - GEN OIL TOOLS L P [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2592218 A1 20130515

DOCDB simple family (application)

EP 11188271 A 20111108